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# Program in Chronological Order

<b>ThPL1</b>	Exhibit Hall A	09:30-09:45	ThAT3.3
<b>Systems Biology and Systems Medicine (Keynote)</b>		<i>Reduction of Skin Reflections in Radar-Based Microwave Breast Imaging</i> , pp. 21-24.	
08:00-09:00	ThPL1.1	Maklad, Batoul	Univ. of Calgary
<i>Systems Biology and Systems Medicine: From Reactive to Predictive, Personalized, Preventive and Participatory Medicine*</i> .		Fear, Elise C.	Univ. of Calgary
Hood, Leroy	Inst. for Systems Biology		
<b>ThPL2</b>	Exhibit Hall A	09:45-10:00	ThAT3.4
<b>Genome Variation and Cancer (Plenary)</b>		<i>A New Interference-Cancellation Technique for Biomedical Instrumentation*</i> .	
13:00-14:00	ThPL2.1	Vasconez, Pablo, Paul	Univ. of North Carolina at Charlotte
<i>Genome Variation and Cancer*</i> .		Cox, Robert	Univ. of North Carolina at Charlotte
Hudson, Thomas	Ontario Inst. for Cancer Res.		
<b>ThAT1</b>	Ballroom A	10:00-10:15	ThAT3.5
<b>EMBS-LEOS Joint Symposium: Novel Imaging Technologies with Sounds and Light (Minisymposium)</b>		<i>Equalizing Secondary Path Effects Using the Periodicity of Fmri Acoustic Noise</i> , pp. 25-28.	
Organizer: Li, Xingde	Univ. of Washington	Kannan, Govind	The Univ. of Texas at Dallas
Organizer: Ilev, Ilko	FDA	Milani, Ali	Univ. of Texas at Dallas
09:00-09:30	ThAT1.1	Panahi, Issa	Univ. of Texas at Dallas
<i>Photoacoustic Computed Tomography and Microscopy: High-Resolution Imaging of Optical Contrast in Vivo at New Depths (I)*</i> .		Briggs, Richard	UT Southwestern Medical Center at Dallas
Wang, Lihong	Washington Univ. in St. Louis		
10:00-10:30	ThAT1.3	10:15-10:30	ThAT3.6
<i>Breast Cancer Imaging and Stroke Monitoring with Diffuse Optics (I)</i> , pp. 1-1.		<i>Multiharmonic Tracking Using Marginalized Particle Filters</i> , pp. 29-33.	
Yodh, Arjun	Univ. of Pennsylvania	Kim, Sunghan	Portland State Univ.
10:00-10:30	ThAT1.5	McNames, James	Portland State Univ.
<i>Intravascular Ultrasound and Photoacoustic Imaging (I)</i> , pp. 2-5.		Holmstrom, Lars	Portland State Univ.
Emelianov, Stanislav	Univ. of Texas at Austin		
<b>ThAT2</b>	Ballroom B	<b>ThAT4</b>	Room 11 & 12
<b>Integrated Systems at the Convergence of Micro-Nano-Bio-ICT: Future Challenges (Minisymposium)</b>		<b>Neural Signal Processing (Oral Session)</b>	
Organizer: Lymberis, Andreas	European Commission	09:00-09:15	ThAT4.1
09:00-09:30	ThAT2.1	<i>Recording with Microchannel Electrodes in a Noisy Environment</i> , pp. 34-37.	
<i>Converging Micro-Nano-Bio Technologies towards Integrated Biomedical Systems: State of the Art and Future Perspectives under the EU-Information &amp; Communication Technologies Program (I)</i> , pp. 6-8.		FitzGerald, James John	Univ. of Cambridge
Lymberis, Andreas	European Commission	Lacour, Stéphanie	Univ. of Cambridge
10:00-10:30	ThAT2.3	Fawcett, James W	Univ. of Cambridge
<i>Major Developments on Smart Implants and Diagnostic Equipment (I)</i> , pp. 9-10.		09:15-09:30	ThAT4.2
Spensley, John	Finetech Medical Ltd	<i>Wavelet-Based Neural Pattern Analyzer for Behaviorally Significant Burst Pattern Recognition</i> , pp. 38-41.	
Hodgins, Diana	European Tech. for Business Ltd	Narasimhan, Seetharam	Case Western Res. Univ.
10:00-10:30	ThAT2.5	Cullins, Miranda	Case Western Res. Univ.
<i>SmartHEALTH: A Multisensor Platform for POC Cancer Diagnostics (I)</i> , pp. 11-12.		Chiel, Hillel	Case Western Res. Univ.
Becker, Holger	microfluidic ChipShop GmbH	Bhunia, Swarup	Case Western Res. Univ.
Claudia, Gärtner	microfluidic ChipShop GmbH		
<b>ThAT3</b>	Ballroom C	09:30-09:45	ThAT4.3
<b>Adaptive Filtering (Oral Session)</b>		<i>Modeling Spiking Activity of in Vitro Neuronal Networks through Non Linear Methods</i> , pp. 42-45.	
09:00-09:15	ThAT3.1	Maffezzoli, Andrea	Pol. di Milano
<i>Application of Filtering Methods for Removal of Resuscitation Artifacts from Human ECG Signals</i> , pp. 13-16.		Signorini, Maria G.	Pol. di Milano
Markovsky, Ivan	Univ. of Southampton	Gullo, Francesca	Univ. degli Studi di Milano-Bicocca
Amann, Anton	Innsbruck Medical Univ.	Wanke, Enzo	Univ. degli Studi di Milano-Bicocca
Van Huffel, Sabine	Katholieke Univ. Leuven		
09:15-09:30	ThAT3.2	09:45-10:00	ThAT4.4
<i>Low Complexity Tracking for Long Term Monitoring of Heart Sounds</i> , pp. 17-20.		<i>Automated Reduction of Non-Neuronal Signals from Intra-Cortical Microwire Array Recordings by Use of Correlation Technique</i> , pp. 46-49.	
Patangay, Abhilash	Univ. of Minnesota	Paralikar, Kunal	The Pennsylvania State Univ.
Tewfik, Ahmed	Univ. of Minnesota	Rao, Chinmay	Penn State Univ.
		Clement, Ryan	The Pennsylvania State Univ.
		10:00-10:15	ThAT4.5
		<i>A Hybrid Algorithm for Artifact Rejection in EEG Recordings Based on Iterative ICA and Fuzzy Clustering</i> , pp. 50-53.	
		Patidar, Udit	Univ. of Houston
		Zouridakis, George	Univ. of Houston
		10:15-10:30	ThAT4.6
		<i>Dynamic Clustering for Vigilance Analysis Based on EEG</i> , pp. 54-57.	
		Shi, Lichen	Shanghai Jiao Tong Univ.
		Lu, Bao-Liang	Shanghai Jiao Tong Univ.

<b>ThAT5</b>	Room 1
<b>Computer-Assisted Surgery (Oral Session)</b>	
09:00-09:15	ThAT5.1
<i>The Implementation of an Integrated Computer-Aided System for Dental Implantology</i> , pp. 58-61.	
Zheng, Guangchao	Shanghai Jiaotong Univ.
Gu, Lixu	Shanghai Jiaotong Univ.
09:15-09:30	ThAT5.2
<i>Surgical Accuracy under Virtual Reality-Enhanced Ultrasound Guidance: An in Vitro Epicardial Dynamic Study</i> , pp. 62-65.	
Linte, Cristian A.	Robarts Res. Inst.
Wiles, Andrew	Robarts Res. Inst.
Moore, John	Robarts Res. Inst.
Wedlake, Christopher	Robarts Res. Inst.
Peters, Terry	Robarts Res. Inst.
09:30-09:45	ThAT5.3
<i>3-D Reconstruction of a Surface Model of the Proximal Femur from Digital Biplanar Radiographs</i> , pp. 66-69.	
Zheng, Guoyan	Univ. of Bern
Schumann, Steffen	MEM Res. Center, Univ. of Bern
09:45-10:00	ThAT5.4
<i>Instrumentation of a Clinical Colonoscope for Surgical Simulation</i> , pp. 70-73.	
Maillard, Pascal	Ec. Pol. Fédérale de Lausanne
Flaction, Lionel	EPFL
Samur, Evren	Ec. Pol. Fédérale de Lausanne (EPFL)
Hellier, David	CSIRO Australian E-Health Res. Centre
Passenger, Josh	CSIRO Australian E-Health Res. Centre
Bleuler, Hannes	EPFL
10:00-10:15	ThAT5.5
<i>Landmark Based Augmented Reality Endoscope System for Sinus and Skull-Base Surgeries</i> , pp. 74-77.	
Thoranaghatte, Ramesh	Univ. of Bern
Garcia Giraldez, Jaime	MEM Res. Center, Univ. of Bern
Zheng, Guoyan	Univ. of Bern
10:15-10:30	ThAT5.6
<i>Robust Automatic Detection and Removal of Fiducial Projections in Fluoroscopy Images: An Integrated Solution</i> , pp. 78-81.	
Zhang, Xuan	Univ. of Bern
Zheng, Guoyan	Univ. of Bern
<b>ThAT6</b>	Room 2 & 3
<b>Parameter Estimation from Image Sequences (Oral Session)</b>	
09:00-09:15	ThAT6.1
<i>A Network Flow Method for Improved MR Field Map Estimation in the Presence of Water and Fat</i> , pp. 82-85.	
Hernando, Diego	Univ. of Illinois at Urbana-Champaign
Kellman, Peter	NIH/NHLBI
Haldar, Justin	Univ. of Illinois at Urbana-Champaign
Liang, Zhi-Pei	Univ. of Illinois, Urbana-Champaign
09:15-09:30	ThAT6.2
<i>An Efficient Temperature Estimation Using Optical-Flow in Ultrasound B-Mode Digital Images</i> , pp. 86-89.	
M. Mehrabani, Bahram	Res. Center for Science and Tech. in Medicine, RCSTIM, Te
Tavakoli, Vahid	Univ. of tehran
Abolhassani, Mohammad Djavad	Tehran Univ. of Medical Science
Alirezaie, Javad	Ryerson Univ. Univ. of Waterloo
Ahmadian, Alireza	Tehran Univ. of Medical Sciences
09:30-09:45	ThAT6.3
<i>Voxelwise Regularisation of High Angular Resolution Diffusion Imaging Data</i> , pp. 90-93.	
Johnston, Leigh A.	Univ. of Melbourne
Kolbe, Scott	Howard Florey Inst.
Mareels, Iven	Melbourne Univ. Australia
Egan, Gary	Howard Florey Inst.
09:45-10:00	ThAT6.4
<i>Average Field Map Image Template for Echo-Planar Image Analysis</i> , pp. 94-97.	
Gholipour, Ali	Univ. of Texas at Dallas
Kehtarnavaz, Nasser	Univ. of Texas at Dallas
Gopinath, Kaundinya	UT Southwestern Medical Center at Dallas
Briggs, Richard	UT Southwestern Medical Center at Dallas
Panahi, Issa	Univ. of Texas at Dallas
10:00-10:15	ThAT6.5
<i>Parametric Data Mining and Diagnostic Rules for Digital Thermographs in Breast Cancer</i> , pp. 98-101.	
Yang, Chi-Shih	Chang Gung Univ. Lee-Ming Inst. of Tech.
Lee, Ming-Yih	Chang Gung Univ.
10:15-10:30	ThAT6.6
<i>Periorbital Thermal Signal Extraction and Applications</i> , pp. 102-105.	
Shastri, Dvijesh	Univ. of Houston
Tsiamyrtzis, Panagiotis	Athens Univ. of Ec. and Business
Pavlidis, Ioannis	Univ. of Houston
<b>ThAT7</b>	Room 8 & 15
<b>Novel Sensing Technology I (Oral Session)</b>	
09:00-09:15	ThAT7.1
<i>Active Sensing for Viscoelastic Tissue with Coupling Effect</i> , pp. 106-111.	
Tanaka, Nobuyuki	Osaka Univ.
Higashimori, Mitsuru	Osaka Univ.
Kaneko, Makoto	Osaka Univ.
09:15-09:30	ThAT7.2
<i>Measuring Muscle Movements for Human Interfaces Using a Flexible Piezoelectric Thin Film Sensor</i> , pp. 112-116.	
Bu, Nan	NIAIST
Tsukamoto, Junpei	Hiroshima Univ.
Ueno, Naohiro	National Inst. of Advanced Industrial Science and Technology
Shima, Keisuke	Hiroshima Univ.
Tsuji, Toshio	Hiroshima Univ.
09:30-09:45	ThAT7.3
<i>An Instrument to Measure the Convective Heat Transfer Coefficient on Large Vessels</i> , pp. 117-120.	
Miguel, Alaor Faria	Univ. of Brasilia
Nascimento, Francisco A. de O.	Univ. of Brasilia
da Rocha, Adson F.	Univ. of Brasilia
dos Santos, Icaro	Univ. of Brasilia
09:45-10:00	ThAT7.4
<i>In Vivo Tumor Detection on Rabbit with Biopsy Needle As MRE Driver</i> , pp. 121-124.	
Zhao, Xiaoguang	The Univ. of Hong Kong.
Zheng, Ying	The Univ. of Hong Kong
Liang, Jieming	The Univ. of Hong Kong
Chan, Queenie C. C.	Philips Electronics Hong Kong Limited
Yang, Xifei	The Univ. of Hong Kong.
Li, Geng	The Univ. of Hong Kong
Yang, Edward	Univ. of Hong Kong
10:00-10:15	ThAT7.5
<i>How to Track Spermatozoa Using High-Speed Visual Feedback</i> , pp. 125-128.	
Oku, Hiromasa	Univ. of Tokyo
Ogawa, Naoko	Japan Aerospace Exploration Agency
Shiba, Kogiku	Univ. of Tokyo
Yoshida, Manabu	Univ. of Tokyo
Ishikawa, Masatoshi	Univ. of Tokyo
10:15-10:30	ThAT7.6
<i>A Miniature Fully-Passive Microwave Back-Scattering Device for Short-Range Telemetry of Neural Potentials</i> , pp. 129-132.	
Abbaspour-Tamijani, Abbas	Arizona State Univ.
Farooqui, Muhammad Fahad	Arizona State Univ.
Towe, Bruce	Arizona State Univ.
Chae, Junseok	Arizona State Univ.

**ThAT8** Room 19 & 20  
**Electrocardiology (Oral Session)**

09:00-09:15 ThAT8.1

*Dynamic Action Potential Clamp As a Powerful Tool in the Development of a Gene-Based Bio-Pacemaker*, pp. 133-136.  
Verkerk, Arie O. Acad. Medical Center, Univ. of Amsterdam

Zegers, Jan G. Acad. Medical Center, Univ. of Amsterdam

van Ginneken, Antoni C. G. Acad. Medical Center, Univ. of Amsterdam

Wilders, Ronald Acad. Medical Center, Univ. of Amsterdam

09:15-09:30 ThAT8.2

*Experiment-Specific Models of Ventricular Electrical Activation: Construction and Application*, pp. 137-140.

Trew, Mark L. Univ. of Auckland

Caldwell, Bryan Univ. of Auckland

Barbarenda-Gamage, Thiranjia P. Univ. of Auckland

Sands, Gregory The Univ. of Auckland

Small, Bruce Univ. of Auckland

09:30-09:45 ThAT8.3

*Regional Differences in Rabbit Atrial Action Potential Properties: Mechanisms, Consequences and Pharmacological Implications*, pp. 141-144.

Aslanidi, Oleg Univ. of Manchester

Dewey, Rebecca Susan The Univ. of Manchester

Morgan, Alexandra Rose The Univ. of Manchester

Boyett, Mark Richard Univ. of Manchester

Zhang, Henggui Univ. of Manchester

09:45-10:00 ThAT8.4

*Structure Specific Models of Electrical Function in the Right Atrial Appendage*, pp. 145-148.

Zhao, Jichao Univ. of Auckland

Amiri, Amir The Univ. of Auckland

Sands, Gregory The Univ. of Auckland

Trew, Mark L. Univ. of Auckland

LeGrice, Ian Univ.

Small, Bruce Univ. of Auckland

Pullan, Andrew Univ. of Auckland

10:00-10:15 ThAT8.5

*Role of Purkinje System in Cardiac Arrhythmias*, pp. 149-152.

Deo, Makarand Univ. of Calgary

Vigmond, Edward Univ. of Calgary

Boyle, Patrick M. Univ. of Calgary

Plank, Gernot Medical Univ. of Graz

10:15-10:30 ThAT8.6

*A Sensitive Algorithm for Automatic Detection of Space-Time Alternating Signals in Cardiac Tissue*, pp. 153-156.

Jia, Zhiheng Stony Brook Univ.

Bien, Harold Stony Brook Univ.

Entcheva, Emilia Stony Brook Univ.

**ThAT9** Room 10  
**Markov Models and Support Vector Machines (Oral Session)**

09:00-09:15 ThAT9.1

*Tracking Single-Trial Evoked Potential Changes with Kalman Filtering and Smoothing*, pp. 157-160.

Georgiadis, Stefanos Univ. of Kuopio

Ranta-aho, Perttu Univ. of Kuopio

Tarvainen, Mika Univ. of Kuopio

Karjalainen, Pasi, A Univ. of Kuopio

09:15-09:30 ThAT9.2

*Dynamic Analysis of Probabilistic Boolean Network for Fmri Study in Parkinson's Disease*, pp. 161-164.

Ma, Zheng Univ. of British Columbia

Wang, Z. Jane Univ. of British Columbia

09:30-09:45 ThAT9.3

*Modelling Temporal Evolution of Cardiac Electrophysiological Features Using Hidden Semi-Markov Models*, pp. 165-168.

Dumont, Jerome INSERM, U642, Univ. de Rennes 1

Hernández, Alfredo I INSERM U642 LTSI

Fleureau, Julien INSERM, U642, Univ. de Rennes 1

Carrault, Guy Univ. de Rennes 1

09:45-10:00 ThAT9.4

*EEG Analysis Using Moving Average-Type Neural Network*, pp. 169-172.

Murata, Toshihiro the Univ. of Tokushima

Akutagawa, Masatake The Univ. of Tokushima

Kaji, Yoshio Tokushima Bunri Univ.

Nagashino, Hirofumi The Univ. of Tokushima

Kinouchi, Yohsuke The Univ. of Tokushima

10:00-10:15 ThAT9.5

*Comparison of Adaptive Features with Linear Discriminant Classifier for Brain Computer Interfaces*, pp. 173-176.

Vidaurre, Carmen Fraunhofer Inst.

Schloegl, Alois Graz Univ. of Tech.

10:15-10:30 ThAT9.6

*Detection of Atrial Fibrillation Episodes Using SVM*, pp. 177-180.

Mohebbi, Maryam Tarbiat Modares Univ.

Ghassemian, Hassan Tarbiat Modares Univ.

**ThAT10** Room 18  
**EMG Processing and Applications (Oral Session)**

09:00-09:15 ThAT10.1

*Quantitative Evaluation of Movement Disorders in Neurological Diseases Based on EMG Signals*, pp. 181-184.

Lee, Jongho Tokyo Metropolitan Inst. for Neuroscience

Kagamihara, Yasuhiro Tokyo Metropolitan Neurological Hospital

Kakei, Shinji Tokyo Metropolitan Inst. for Neuroscience

09:15-09:30 ThAT10.2

*An Embedded Controller for a 7-Degree of Freedom Prosthetic Arm*, pp. 185-188.

Tenore, Francesco Johns Hopkins Univ.

Armiger, Robert Johns Hopkins Univ. Applied Physics Lab.

Vogelstein, R. Jacob Johns Hopkins Univ.

Wenstrand, Douglas Johns Hopkins Univ.

Harshbarger, Stuart JHU-APL

Englehart, Kevin Univ. of New Brunswick

09:30-09:45 ThAT10.3

*Study of Stroke Condition and Hand Dominance Using a Hidden Markov, Multivariate Autoregressive (HMM-Mar) Network Framework*, pp. 189-192.

Chiang, Joyce Hsien yin Univ. of British Columbia

Wang, Z. Jane Univ. of British Columbia

McKeown, Martin Univ. of British Columbia

09:45-10:00 ThAT10.4

*Decoding Individuated Finger Flexions with Implantable MyoElectric Sensors*, pp. 193-196.

Baker, Justin Univ. of Utah

Yatsenko, Dimitri Univ. of Utah

Schorsch, Jack Rehabilitation Inst. of Chicago

DeMichele, Glenn Sigenics Inc.

Troyk, Philip Illinois Inst. of Tech.

Hutchinson, Douglas Univ. of Utah

Weir, Richard Rehabilitation Inst. of Chicago

Clark, Gregory Univ. of Utah

Greger, Bradley Univ. of Utah

10:00-10:15 ThAT10.5

*Continuous Decoding of Finger Position from Surface EMG Signals for the Control of Powered Prostheses*, pp. 197-200.

Smith, Ryan J The Johns Hopkins Univ.

Tenore, Francesco Johns Hopkins Univ.

Huberdeau, David The Johns Hopkins Univ.

Etienne-Cummings, Ralph Johns Hopkins Univ.

Thakor, Nitish Johns Hopkins Univ.



10:15-10:30 ThAT10.6  
*Predicting EMG with Generalized Volterra Kernel Model*, pp. 201-204.  
 Song, Dong Univ. of Southern California  
 Hendrickson, Phillip Univ. of Southern California  
 Marmarelis, Vasilis Univ. of Southern California  
 Aguayo, Jose Arizona State Univ.  
 He, Jiping Arizona State Univ.  
 Loeb, Gerald Univ. of Southern California  
 Berger, Theodore Univ. of Southern California

**ThAT11 Room 16**  
**Cardiac Image Analysis (Oral Session)**

09:00-09:15 ThAT11.1  
*A New Variational Technique for Combining Affine Registration and Optical Flow in Echocardiography Images*, pp. 205-208.

Tavakoli, Vahid Univ. of tehran  
 Nambakhsh, Mohammad Saleh King's Coll. London  
 Samani, Narges Tehran Univ. of Medical Science  
 Makinian, Amir Kish Univ.

09:15-09:30 ThAT11.2  
*Functional Bull's Eye Based on Three Dimensional Velocity Information to Quantify Left Ventricle Motion in Gated-SPECT*, pp. 209-213.

Rebelo, Marina de Fátima de Heart Inst. Univ. of Sao Paulo  
 Sá Medical School  
 Meneghetti, Jose Claudio Heart Inst. (InCor), Univ. of Sao Paulo Medical School  
 Gutierrez, Marco Heart Inst. Univ. of Sao Paulo Medical School

09:30-09:45 ThAT11.3  
*3D Left Ventricular Segmentation Using Double Active Contours and Double Active Surfaces*, pp. 214-217.

Phumeechanya, Sopon Chulalongkorn Univ.  
 Pluempitwiriyaewej, Charnchai Chulalongkorn Univ.  
 Sotthivirat, Saowapak National Electronics and Computer Tech. Center

09:45-10:00 ThAT11.4  
*Semi-Automatic Detection of the Left Ventricular Border*, pp. 218-221.

Reis, Maria do Carmo dos Univ. of Brasilia  
 da Rocha, Adson F. Univ. of Brasilia  
 Vasconcelos, Daniel F. Univ. of Brasilia  
 Macchiavello, Bruno L. Univ. of Brasilia  
 Nascimento, Francisco A. de O. Univ. of Brasilia  
 Carvalho, João Luiz Azevedo de Univ. of Southern California  
 Camapum, Juliana Fernandes Univ. de Brasília  
 Salomoni, Sauro Univ. de Brasilia

10:00-10:15 ThAT11.5  
*Left Ventricle Segmentation in Echocardiography Using a Radial-Search-Based Image Processing Algorithm*, pp. 222-225.

Lacerda, Saulo Guerreiro Univ. of Brasilia  
 da Rocha, Adson F. Univ. of Brasilia  
 Vasconcelos, Daniel F. Univ. of Brasilia  
 Carvalho, João Luiz Azevedo de Univ. of Southern California  
 Camapum, Juliana Fernandes Univ. de Brasília  
 Sene Jr, Iwens G. Catholic Univ. of Goiás

10:15-10:30 ThAT11.6  
*Virtual Sectioning of Cardiac Tissue Relative to Fiber Orientation*, pp. 226-229.

Sands, Gregory The Univ. of Auckland  
 Small, Bruce Univ. of Auckland  
 LeGrice, Ian Univ.

**ThAT12 Room 17**  
**Microwave Heating and RF Ablation (Oral Session)**

09:00-09:15 ThAT12.1  
*Temperature-Dependent Dielectric Properties of Liver Tissue Measured During Thermal Ablation: Toward an Improved Numerical Model*, pp. 230-233.

Brace, Christopher Univ. of Wisconsin

09:15-09:30 ThAT12.2  
*Heating Properties of Re-Entrant Resonant Cavity Applicator for Brain Tumor with Simple Head Model*, pp. 234-237.

Hirashima, Taku Meiji Univ.  
 Kato, Kazuo Meiji Univ.  
 Shindo, Yasuhiro Meiji Univ.  
 Yabuhara, Tadao Meiji Univ.

09:30-09:45 ThAT12.3  
*Tumor Ablation at Low Frequencies for Preferential Heating of Tumor: Initial Ex-Vivo Tissue Studies*, pp. 238-241.

Schutt, David J. Medical Univ. of South Carolina  
 Haemmerich, Dieter Medical Univ. of South Carolina

09:45-10:00 ThAT12.4  
*Finite Element Model of Wet Brush RF Ablation Catheter*, pp. 242-245.

Cao, Hong St. Jude Medical, Inc  
 Paul, Saurav St. Jude Medical

10:00-10:15 ThAT12.5  
*Surgical Cardiac Ablation Devices: Numerical Model Study*, pp. 246-249.

Pearce, John Anthony Univ. of Texas at Austin

10:15-10:30 ThAT12.6  
*A Novel Highly Articulated Robotic Surgical System for Epicardial Ablation*, pp. 250-253.

Ota, Takeyoshi Univ. of Pittsburgh  
 Degani, Amir Carnegie Mellon Univ.  
 Schwartzman, David Univ. of Pittsburgh  
 Zubiate, Brett Cardiorobotics, Inc.  
 McGarvey, Jeremy Univ. of Pittsburgh School of Medicine  
 Choset, Howie Carnegie Mellon  
 Zenati, Marco Univ. of Pittsburgh Medical Center

**ThAT13 Room 9**  
**Student Paper Competition I: Biosignal Analysis and Intervention (Oral Session)**

09:00-09:15 ThAT13.1  
*Fall Detection of Elderly through Floor Vibrations and Sound\**.

Litvak, Dima Tel-Aviv Univ.  
 Zigel, Yaniv Ben-Gurion Univ.  
 Gannot, Israel Tel-Aviv Univ.

09:15-09:30 ThAT13.2  
*The CNS Learns Multiple Impedance Models\**.

Kadiallah, Abdelhamid Imperial Coll. London  
 Burdet, Etienne Imperial Coll. London  
 Franklin, David W. Univ. of Cambridge

09:30-09:45 ThAT13.3  
*Decoding of Hand and Cursor Kinematics from Magnetoencephalographic Signals During Tool Use\**.

Bradberry, Trent Univ. of Maryland  
 Contreras-Vidal, José Univ. of Maryland  
 Rong, Feng Univ. of Maryland

09:45-10:00 ThAT13.4  
*Spatio-Temporal Modeling for Dense Array ERP Classification\**.

Kota, Srinivas Southern Illinois Univ.  
 Gupta, Lalit Southern Illinois Univ.  
 Molfese, Dennis Univ. of Louisville  
 Vaidyanathan, Ravi Univ. of Bristol

10:00-10:15 ThAT13.5  
*Automatic Screening of Obstructive Sleep Apnea from the ECG Based on Empirical Mode Decomposition and Wavelet Analysis\**.

Corthout, Jeroen Katholieke Univ. Leuven  
 Van Huffel, Sabine Katholieke Univ. Leuven  
 Mendez, Martin Pol. di Milano  
 Bianchi, Anna Maria Pol. di Milano  
 Penzel, Thomas Charite Univ. Hospital  
 Cerutti, Sergio Pol. Univ. of Milan

**ThBT13** Room 9  
**Student Paper Competition II: Biomedical Systems and Devices**  
(Oral Session)

10:30-10:45	ThBT13.1	
<i>Nonlinear Analysis of the ECG During Atrial Fibrillation in Patients for Low Energy Internal Cardioversion*</i> .		
Diaz, Jose David	UNEFM	
Carlos, Gonzalez	Simon Bolivar Univ.	
Escalona, Omar Jacinto	Univ. of Ulster	
Glover, Ben	RVH	
Manoharan, Ganesh	Royal Victoria Hospital	
10:45-11:00	ThBT13.2	
<i>Abnormal Cardiac Autonomic Control in Sickle Cell Disease Following Transient Hypoxia*</i> .		
Sangkatumvong, Suvimol	Univ. of Southern California	
Khoo, Michael	Univ. of Southern California	
Coates, Thomas	Childrens Hospital Los Angeles, USC Keck School of Medicine	
11:00-11:15	ThBT13.3	
<i>A Novel Method to Estimate the Aortic Pressure Waveform Using B-Mode Ultrasound Images Acquired from a Suprasternal View*</i> .		
Leung, Mande	Univ. of British Columbia	
Dumont, Guy	Univ. of British Columbia	
Sandor, George G. S.	British Columbia's Children Hospital	
Potts, James	British Columbia's Children Hospital	
Potts, Terri	British Columbia Children's Hospital	
11:15-11:30	ThBT13.4	
<i>A New Lateral Guidance Device for Stereotactic Breast Biopsy Using an Add-On Unit to an Upright Mammography System*</i> .		
Ma, Kayan	Robarts Res. Inst.	
Fenster, Aaron	Robarts Res. Inst.	
Kornecki, Anat	St. Joseph's Health Care London	
Mundt, Yolanda	St. Joseph's Health Care London	
Bax, Jeff	Robarts Res. Inst.	
11:30-11:45	ThBT13.5	
<i>Comparison of the Electrophysiologically Based Optimization Methods with Different Pacing Parameters in Patient Undergoing Resynchronization Treatment*</i> .		
Miri, Raz	Univ. of Karlsruhe	
Reumann, Matthias	IBM T. J. Watson Res. Center	
Keller, David Urs Josef	Univ. Karlsruhe (TH)	
Farina, Dmytro	Univ. of Karlsruhe	
Doessel, Olaf	Univ. of Karlsruhe	

**ThBPo01** Exhibit Hall C  
**Adaptive Filtering Posters (Poster Session)**

10:30-12:00	ThBPo01.1	
<i>A Real-Time Maximum-Likelihood Heart-Rate Estimator for Wearable Textile Sensors</i> , pp. 254-257.		
Cheng, Mu-Huo	National Chiao Tung Univ.	
Chen, Li-Chung	National Chiao Tung Univ.	
Hung, Yingjhe	National Chiao Tung Univ.	
Yang, Chang-Ming	Ming Yang Biomedical Corp.	
10:30-12:00	ThBPo01.2	
<i>Performance Analysis of Approximate Affine Projection Algorithm in Acoustic Feedback Cancellation</i> , pp. 258-261.		
Nikjoo S., Mohammad	Univ. of Toronto	
Seyedi, Amir	Dominique Scientifique de la Doua- INSA LYON	
Saber Tehrani, Arash	Munich Univ. of Tech.	
10:30-12:00	ThBPo01.3	
<i>Neural Network Based EEG Denoising</i> , pp. 262-265.		
Chen, Yongjian	The Univ. of Tokushima	
Akutagawa, Masatake	The Univ. of Tokushima	
Katayama, Masato	The Univ. of Tokushima	
Zhang, Qinyu	ShenZhen Graduate School, Harbin Inst. of Tech. ShenZh	
Kinouchi, Yohsuke	The Univ. of Tokushima	

10:30-12:00	ThBPo01.4	
<i>Comparison between Hybrid Feedforward-Feedback, Feedforward, and Feedback Structures for Active Noise Control of Fmri Noise</i> , pp. 266-269.		
Reddy, Rajiv	Univ. of Texas at Dallas	
Panahi, Issa	Univ. of Texas at Dallas	

10:30-12:00	ThBPo01.5	
<i>A New Noise Reduction Method for Oscillometric Blood Pressure Measurement</i> , pp. 270-272.		
Choi, Hyun Seok	Yonsei Univ.	
Myoung, Hyoum Seok	YONSEI Univ.	
Lee, Hyo Ki	Yonsei Univ.	
Park, Ho Dong	Yonsei Univ.	
Lee, Kyoung Joung	Yonsei Univ.	

10:30-12:00	ThBPo01.6	
<i>Adaptive Impulse Correlated Filter (AICF) Improvement for Photoplethysmographic Signals</i> , pp. 273-276.		
Pilt, Kristjan	Tech. Univ. of Tallinn	
Meigas, Kalju	Tallinn Univ. of Tech.	
Lass, Jaanus	Tallinn Univ. of Tech.	
Rosmann, Mart-Rein	Tensiotrace Ltd.	
Kaik, Jüri	Tallinn Univ. of Tech.	

**ThBPo02** Exhibit Hall C  
**Modeling and Simulation (Poster Session)**

10:30-12:00	ThBPo02.1	
<i>Instantaneous Heart Rate: Should RR-Intervals Be Resampled?</i> , pp. 277-282.		
Potter, Michael James A	Univ. of Manitoba	
Kinsner, Witold	Univ. of Manitoba	

10:30-12:00	ThBPo02.2	
<i>Template-Based Compression of ECG Signals</i> , pp. 283-286.		
Zoghiami Ayari, Emna	Microelectronic Systems Design Res. Group, Univ. of	
Tielert, Rheinhardt	Microelectronic Systems Design Res. Group, Univ. of Kai	
Wehn, Norbert	Microelectronic Systems Design Res. Group, Univ. of Kai	

10:30-12:00	ThBPo02.3	
<i>Frequency Distribution Effects of Anchored Mother Rotors - a Computer Model Study</i> , pp. 287-290.		
Nowak, Claudia-Nike	Univ. for Health Sciences, Medical Informatics and Technolog	
Fischer, Gerald	UMIT	
Wieser, Leonhard	UMIT	
Strohmeinger, Hans-Ulrich	Medical Univ. Innsbruck	
Tilg, Bernhard	UMIT	

10:30-12:00	ThBPo02.4	
<i>Short-Term Diabetes Blood Glucose Prediction Based on Blood Glucose Measurements</i> , pp. 291-294.		
Stihl, Fredrik	Lund Univ.	
Johansson, Rolf	Lund Univ.	

10:30-12:00	ThBPo02.5	
<i>System Identification of Biomedical Systems from Short Transients Using Space Methods</i> , pp. 295-298.		
Zhao, Yong	McGill Univ.	
Kearney, Robert Edward	McGill Univ.	

10:30-12:00	ThBPo02.6	
<i>Estimation of Single-Trial Fmri BOLD Responses Using Combined EEG and Fmri Measurements</i> , pp. 299-302.		
Ranta-aho, Perttu	Univ. of Kuopio	
Niskanen, Eini	Univ. of Kuopio	
Georgiadis, Stefanos	Univ. of Kuopio	
Könönen, Mervi	Kuopio Univ. Hospital	
Tarvainen, Mika	Univ. of Kuopio	
Karjalainen, Pasi, A	Univ. of Kuopio	

10:30-12:00	ThBPo02.7	
<i>Oscillometric Blood Pressure Monitor Modeling</i> , pp. 303-306.		
Pinheiro, Eduardo	Pol. Inst. of Setúbal	

10:30-12:00 <i>Respiratory Parameter Estimation in Linear Lung Models</i> , pp. 307-310. Saatç1, Esra Akan, Aydin	ThBPo02.8 Istanbul Kultur Univ. Istanbul Univ.	10:30-12:00 <i>Respiratory Airflow Estimation by Time Varying Autoregressive Modeling</i> , pp. 347-350. Ciftci, Koray Kahya, Yasemin P.	ThBPo02.19 Bogazici Univ. Bogazici Univ.
10:30-12:00 <i>Oscillation and Its Inhibition in a Neuronal Network Model for Tinnitus Sound Therapy</i> , pp. 311-314. Nagashino, Hirofumi Fujimoto, Ken-ichi Kinouchi, Yohsuke Danesh, Ali A. Pandya, Abhijit S. He, Jufang	ThBPo02.9 The Univ. of Tokushima The Univ. of Tokushima The Univ. of Tokushima Florida Atlantic Univ. Florida Atlantic Univ. The Hong Kong Pol. Univ.	10:30-12:00 <i>Estimation of Muscle Strength During Motion Recognition Using Multichannel Surface EMG Signals</i> , pp. 351-354. Nagata, Kentaro Nakano, Takemi Magatani, Kazushige Yamada, Masafumi	ThBPo02.20 Kanagawa Rehabilitation Inst. Tokai Univ. Tokai Univ. Kanagawa Rehabilitation Center
10:30-12:00 <i>Manifestation of Fatigue in Myoelectric Signals of Dynamic Contractions Produced During Playing PC Games</i> , pp. 315-318. Asghari Oskoei, Mohammadreza Hu, Huosheng Gan, John Q.	ThBPo02.10 Univ. of Essex Univ. of Essex Univ. of Essex, UK	10:30-12:00 <i>Interpretability of Anatomical Variability Analysis of Abdominal Organs Via Clusterization of Decomposition Modes</i> , pp. 355-358. Reyes, Mauricio Gonzalez Ballester, Miguel Angel Li, Zhixi Kozic, Nina Summers, Ronald Lingurarur, Marius George	ThBPo02.21 MEM Res. Center, Univ. Bern Alma IT Systems National Inst. of Health Univ. Bern National Inst. of Health National Inst. of Health
10:30-12:00 <i>Multiple Models Oscillometric Blood Pressure Monitor Identification</i> , pp. 319-322. Pinheiro, Eduardo	ThBPo02.11 Pol. Inst. of Setúbal	10:30-12:00 <i>Joint Analysis of Differential Mobility Spectrometer and Mass Spectrometer Features for Tuberculosis Biomarkers</i> , pp. 359-362. Cunha, Meredith Hoenigman, Shirley Kanchagar, Chitra Rearden, Preshious Sasseti, Christopher Trejejo, Jose Keshava, Nirmal	ThBPo02.22 Draper Lab. Draper Lab. Univ. of Massachusetts Medical School Draper Lab. Univ. of Massachusetts Medical School Draper Lab. Draper Lab.
10:30-12:00 <i>System Identification of Mechanomyogram Evoked by Common Peroneal Nerve Stimulation</i> , pp. 323-325. Higuchi, Tatsuya Yamaguchi, Takumasa Uchiyama, Takanori	ThBPo02.12 Graduate school of Keio Univ. Graduate school of Keio Univ. Keio Univ.	10:30-12:00 <i>Identifying Changes in Human Skin Electrical Properties Due to Long-Term NeuroMuscular Electrical Stimulation</i> , pp. 326-329. Birlea, Sinziana Iulia Birlea, Nicolae Marius Breen, Paul ÓLaighin, Gearóid	ThBPo02.13 National Univ. of Ireland, Galway Tech. Univ. of Cluj-Napoca National Univ. of Ireland Galway National Univ. of Ireland, Galway
10:30-12:00 <i>Design of Lower Limb Prosthesis with Contact Pressure Function by MR Fluid</i> , pp. 330-333. Ogawa, Atsuo	ThBPo02.14 Nagoya University, Japan College of Rehabilitation and Welfare Professi Nagoya Univ. Nagoya Univ. Nagoya Univ. Japan Coll. of Rehabilitation and Welfare professionals	10:30-12:00 <i>Automatic Segmentation of the Second Cardiac Sound by Using Wavelets and Hidden Markov Models</i> , pp. 334-337. Lima, Carlos Manuel Gregorio Santos Barbosa, Daniel	ThBPo02.15 Univ. of Minho Univ. of Minho
10:30-12:00 <i>Simulation and Analysis of Needle Electromyogram in Emery-Dreifuss Muscular Dystrophy by Using Line Source Model</i> , pp. 338-342. Zivari Adab, Hamed Firoozabadi, S.M.P. Chalavi, Sima Maghooli, Keivan	ThBPo02.16 Islamic Azad Univ. Tarbiat Modares Univ. Amirkabir Univ. of Tech. Islamic Azad Univ.	10:30-12:00 <i>Distributed Processing for Features Improvement in Real-Time Portable Medical Devices</i> , pp. 5935-5938. Saavedra Mercado, Erwin John	ThBPo02.17 UTS
10:30-12:00 <i>Zero-crossing-Based Fine Structure Representation to Convey Mandarin Tonal Information: A Study on the Noise Effect</i> , pp. 343-346. Chen, Fei Zhang, Yuan-Ting	ThBPo02.18 The Chinese Univ. of Hong Kong The Chinese Univ. of Hong Kong	10:30-12:00 <i>Watershed Deconvolution for Cell Segmentation</i> , pp. 375-378. N. Kachouie, Nezamoddin Fieguth, Paul Jervis, Eric Jay	ThBPo03 Exhibit Hall C
<b>ThBPo03</b>		<b>Cell Tracking and Detection (Poster Session)</b>	
10:30-12:00 <i>Magnetic Resonance Imaging of Migrating Neuronal Precursors in Normal and Hypoxic-Ischemic Neonatal Rat Brains by Intraventricular MPIO Labeling</i> , pp. 363-366. Yang, Jian Liu, JianXin Niu, Gang Liu, Yong Wu, Ed X.	ThBPo03.1 Xi'an Jiaotong Univ. Xi'an Jiaotong Univ. Xi'an Jiaotong Univ. Xi'an Jiaotong Univ. The Univ. of Hong Kong	10:30-12:00 <i>Preliminary in Vitro Study of Ultrasound Sonoporation Cell Labeling with Superparamagnetic Iron Oxide Particles for MRI Cell Tracking</i> , pp. 367-370. Mo, Runyang Linlin, Shyu Wangwang, Gongzheng Wangyu, Yuyu Wu, Ed X.	ThBPo03.2 Shaanxi normal Univ. Shaanxi normal Univ. Shaanxi normal Univ. Shaanxi Normal Univ. The Univ. of Hong Kong
10:30-12:00 <i>Multi-Feature Contour Evolution for Automatic Live Cell Segmentation in Time Lapse Imagery</i> , pp. 371-374. Ersoy, Ilker Palaniappan, Kannappan	ThBPo03.3 Univ. of Missouri - Columbia Univ. of Missouri-Columbia	10:30-12:00 <i>Watershed Deconvolution for Cell Segmentation</i> , pp. 375-378. N. Kachouie, Nezamoddin Fieguth, Paul Jervis, Eric Jay	ThBPo03.4 Univ. of Waterloo Univ. of Waterloo Univ. of Waterloo

10:30-12:00 ThBPo03.5  
*Simultaneous 3D Imaging of Morphology and Nanoparticle Distribution in Single Cells with the Cell-CT™ Technology*, pp. 379-381.  
 Neumann, Thomas VisionGate, Inc.  
 Miao, Qin Univ. of Washington  
 Yu, Julia VisionGate, Inc.  
 Fauver, Mark VisionGate, Inc.  
 Meyer, Michael VisionGate, Inc.  
 Rahn, J. Richard VisionGate, Inc.  
 Lancaster, Christy A. VisionGate, Inc.  
 Seibel, Eric Univ. of Washington  
 Nelson, Alan VisionGate, Inc.

10:30-12:00 ThBPo03.6  
*Automatic Identification of Mycobacterium Tuberculosis with Conventional Light Microscopy*, pp. 382-385.  
 Costa, Marly G. F. Fundacao de Apoio Inst. Rio Solimoes  
 Costa Filho, Cicero F. F. Federal Univ. of Amazonas  
 Sena, Juliana Federal Univ. of Amazonas  
 Salem, Julia Inst. Nacional de Pesquisas Amazônicas - INPA  
 Lima, Mari Inst. Nacional de Pesquisas Amazônicas - INPA

**ThBPo04 Exhibit Hall C**  
**Image Compression, Retrieval, Security and Quality**  
 (Poster Session)

10:30-12:00 ThBPo04.1  
*Methodology for the Design of a PACS in a Small Provincial Hospital*, pp. 386-389.  
 Azpiroz-leehan, Joaquin Univ. Autonoma Metropolitana  
 Vides, Silvia Univ. Autonoma Metropolitana  
 Cadena, Miguel Univ. Autonoma Metropolitana  
 Martinez-Licona, Fabiola Univ. Autonoma Metropolitana  
 Lerallut, Jean-Francois Univ. de Tech. de Compiegne

10:30-12:00 ThBPo04.2  
*A Graph-Based Approach to the Retrieval of Dual-Modality Biomedical Images Using Spatial Relationships*, pp. 390-393.  
 Kumar, Ashnil Univ. of Sydney  
 Kim, Jinman Univ. of Sydney  
 Cai, Weidong Univ. of Sydney  
 Eberl, Stefan Royal Prince Alfred Hospital  
 Feng, Dagan The Univ. of Sydney

10:30-12:00 ThBPo04.3  
*Multimodal Medical Case Retrieval Using the Dezert-Smarandache Theory*, pp. 394-397.  
 Quellec, Gwenole GET/ENST Bretagne  
 Lamard, Mathieu Univ. de Bretagne Occidentale  
 Cazuguel, Guy GET/ENST Bretagne  
 Roux, Christian ENST Bretagne - INSERM  
 Cochener, Béatrice CHU Morvan

10:30-12:00 ThBPo04.4  
*Sparse Representation of Complex MRI Images*, pp. 398-401.  
 Nandakumar, Hari Prasad Texas A&M Univ. Coll. Station  
 Ji, Jim Xiuquan Texas A&M Univ.

10:30-12:00 ThBPo04.5  
*A Comparison of Two Methods for Retrieval of Medical Images in the Compressed Domain*, pp. 402-405.  
 Schaefer, Gerald Aston Univ.  
 Starosolski, Roman Silesian Univ. of Tech.

10:30-12:00 ThBPo04.6  
*Using Relevance Feedback to Reduce the Semantic Gap in Content-Based Image Retrieval of Mammographic Masses*, pp. 406-409.  
 Rosa, Natália Abdala School of Medicine of Ribeirao Preto, Univ. of Sao Paulo  
 Felipe, Joaquim Cezar Univ. of São Paulo  
 Traina, Agma Univ. of Sao Paulo  
 Traina, Caetano Univ. of Sao Paulo  
 Rangayyan, Raj Univ. of Calgary  
 Azevedo-Marques, Paulo Mazzoncini Univ. of São Paulo

10:30-12:00 ThBPo04.7  
*JP3D Compressed-Domain Watermarking of Volumetric Medical Data\**.  
 Makhloufi, Achraf National Engineering School  
 Azza, Ouled Zaid National Engineering School of Tunis  
 Bouallegue, Ammar National Engineering School of Tunis  
 Christian, Olivier Univ. de Poitiers  
 Nait-Ali, Amine Univ. Paris 12

10:30-12:00 ThBPo04.8  
*Coronary Angiogram Video Compression Adapted to Medical Imaging Applications*, pp. 410-413.  
 Azza, Ouled Zaid Natl. Engineering School of Tunis  
 Salem\_abdessalem, Abdessalem La Rabta Hospital  
 Mourali, Sami La Rabta Hospital  
 Farhati, Abdeljalil La Rabta Hospital  
 Bouallegue, Ammar Natl. Engineering School of Tunis  
 Mechmeche, Rachid La Rabta Hospital  
 Christian, Olivier Univ. de Poitiers

10:30-12:00 ThBPo04.9  
*Medical Image Integrity Control Seeking into the Detail of the Tampering*, pp. 414-417.  
 Huang, Hui INSERM, GET ENST Bretagne  
 Coatrieux, Gouenou ENST Bretagne - Inserm  
 Montagner, Julien INSERM ; GET ENST Bretagne  
 Shu, Huazhong Southeast Univ.  
 Luo, Limin Univ. of Southeast  
 Roux, Christian ENST Bretagne - INSERM

10:30-12:00 ThBPo04.10  
*Analysis of Digital Image Quality Indexes for CIRS SP01 and CDMAM 3.4 Mammographic Phantoms*, pp. 418-421.  
 Mayo, Patricia Univ. Pol. de Valencia  
 Rodenas, Francisco Univ. Pol. de Valencia  
 Verdu, Gumersindo Pol. Univ. of Valencia  
 Campayo, Juan Manuel Hospital Clínic de València  
 Villaescusa, Nacho hospital La Fe

**ThBPo05 Exhibit Hall C**  
**Regularization and Image Modeling (Poster Session)**

10:30-12:00 ThBPo05.1  
*Further Development in Anatomically Constrained MR Image Reconstruction: Application to Multimodal Imaging of Mouse Stroke*, pp. 422-425.  
 Haldar, Justin Univ. of Illinois at Urbana-Champaign  
 Wu, Tzy-Haw Washington Univ. in St. Louis,  
 School of Medicine  
 Biomedical MR Lab.  
 Wang, Qing Washington Univ. in Saint  
 Biomedical MR Lab.  
 Chen, Chin-I Washington Univ. in St Louis  
 Washington Univ.  
 Song, Sheng-Kwei Univ. of Illinois, Urbana-Champaign  
 Liang, Zhi-Pei

10:30-12:00 ThBPo05.2  
*Modeling Log-Compressed Ultrasound Images for Radio Frequency Signal Recovery*, pp. 426-429.  
 Sanches, João Inst. de Sistemase Robótica  
 Seabra, José Carlos Inst. Superior Técnico, Lisboa

10:30-12:00 ThBPo05.3  
*Model-Based Super-Resolution for MRI*, pp. 430-434.  
 Souza, Andre Carestream Health, Inc  
 Senn, Robert Carestream Health, Inc

10:30-12:00 ThBPo05.4  
*Convex Ultrasound Image Reconstruction with Log-Euclidean Priors*, pp. 435-438.  
 Seabra, José Carlos Inst. Superior Técnico, Lisboa  
 Sanches, João Inst. de Sistemase Robótica  
 Xavier, João Inst. Superior Técnico

10:30-12:00 ThBPo05.5  
*A Comparison Study of Regularization Techniques on Phased Array  
RF Coil Design in MRI*, pp. 439-442.

Li, Yu The Univ. of Queensland  
Wang, Hua The Univ. of Queensland  
Liu, Feng The Univ. of Queensland  
Li, Bing Keong Joe The Univ. of Queensland  
Shou, Guofa Zhejiang Univ.  
Weber, Ewald The Univ. of Queensland  
Crozier, Stuart The Univ. of Queensland

10:30-12:00 ThBPo05.6  
*Total Variation with Automatic Hyper-Parameter Estimation*, pp. 443-446.  
Nascimento, Jacinto Inst. Superior Técnico  
Sanches, João Inst. de Sistemase Robótica

**ThBPo06** Exhibit Hall C  
**Simulation and Modeling of Imaging Systems (Poster Session)**

10:30-12:00 ThBPo06.1  
*Simulation of Skin Reflectance Images Using 3D Tissue Modeling and  
Multispectral Monte Carlo Light Propagation*, pp. 447-450.

Paquit, Vincent Oak Ridge National Lab.  
Meriaudeau, Fabrice Univ. de Bourgogne  
Price, Jeffery Oak Ridge National Lab.  
Tobin, Kenneth Oak Ridge National Lab.

10:30-12:00 ThBPo06.2  
*Rigid Diffusion Phantom: Acquisition and Simulation*, pp. 451-453.

Sakai, Koji Kyoto Univ.  
Takashi, Azuma Kyoto Univ.  
Mori, Susumu Johns Hopkins Univ. School of Medicine

10:30-12:00 ThBPo06.3  
*3D Simulation of Diffraction in Ultrasonic Computed Tomography*,  
pp. 454-457.

Hemzal, Dusan Masaryk Univ. Brno  
Peterlik, Igor Faculty of Informatics, Masaryk Univ. Brno  
Rolecek, Jiri Brno Univ. of Tech.  
Jan, Jiri Brno Univ. of Tech.  
Ruiter, Nicole Forschungszentrum Karlsruhe  
Jirik, Radovan Brno Univ. of Tech.

10:30-12:00 ThBPo06.4  
*Backprojection-Based Imaging Geometric Parameter Estimation*,  
pp. 458-461.

Zeng, Gengsheng Lawrence Univ. of Utah  
Piatt, Jacob Univ. of Utah

10:30-12:00 ThBPo06.5  
*An Adaptive Multigrid Method for Modeling Photon Transport through  
Biological Tissues in Bioluminescence Tomography*, pp. 462-465.

Liu, Kai Inst. of Automation, Chinese Acad. of Sciences  
Tian, Jie Chinese Acad. of Sciences  
Qin, Chenghu Chinese Acad. of Sciences  
Xu, Min Chinese Acad. of Sciences  
Liu, Dan Chinese Acad. of Sciences  
Lv, Yujie Inst. of Automation, Chinese Acad. of Sciences  
Wang, Pu Beijing Univ. of Tech.

10:30-12:00 ThBPo06.6  
*Three Dimensional Electrical Impedance Tomography in Thorax  
Complete Model*, pp. 466-469.

Wu, Huanli Hebei Univ. of Tech.  
Xu, Guizhi Hebei Univ. of Tech.  
Yu, Hongli Hebei Univ. of Tech.  
Zhang, Shuai Hebei Univ. of Tech.  
Li, Ying Hebei Univ. of Tech.  
Yang, Shuo Hebei Univ. of Tech.  
Yan, Weili Hebei Univ. of Tech.

**ThBPo07** Exhibit Hall C  
**Reconstruction and Analysis of Bone Images (Poster Session)**

10:30-12:00 ThBPo07.1  
*Calibration of X-Ray Radiographs and Its Feasible Application for  
2D/3D Reconstruction of the Proximal Femur*, pp. 470-473.

Schumann, Steffen MEM Res. Center, Univ. of Bern  
Zheng, Guoyan Univ. of Bern  
Nolte, Lutz-Peter Univ. of Bern

10:30-12:00 ThBPo07.2  
*A Preliminary Study on Discrimination of Osteoporotic Fractured Group  
from Nonfractured Group Using Support Vector Machine*, pp. 474-477.

Lee, Sooyeul Electronics & Telecom Res. Inst.  
Lee, Jeong Won Electronics & Telecom Res. Inst.  
Jeong, Ji-Wook ETRI  
Yoo, Done-Sik ETRI (Electronics & Telecom Res. Inst.)  
Kim, Seunghwan Electronics & Telecom Res. Inst.

10:30-12:00 ThBPo07.3  
*Automatic Extraction of Local Axis of Bone Symmetry in CT Images*,  
pp. 478-481.

Favaedi, Leila Imperial Coll.  
Petrou, Maria Imperial Coll.

10:30-12:00 ThBPo07.4  
*A Density Distance Augmented Chan-Vese Active Contour for CT  
Bone Segmentation*, pp. 482-485.

Phan, Tran Ho Truc Kyung Hee Univ.  
Lee, Sungyoung Kyung Hee Univ.  
Kim, Tae-Seong Kyung Hee Univ.

10:30-12:00 ThBPo07.5  
*Automatic Segmentation of Cortical and Trabecular Components of  
Bone Specimens Acquired by Pqct*, pp. 486-489.

Rizzo, Giovanna National Res. Council (CNR)  
Tresoldi, Daniele Pol. Univ. of Milan  
Scalco, Elisa Pol. Univ. of Milan  
Mendez, Martin Pol. di Milano  
Bianchi, Anna Maria Pol. di Milano  
Moro, Gian Luigi San Raffaele Scientific Inst.  
Rubinacci, Alessandro San Raffaele Scientific Inst.

10:30-12:00 ThBPo07.6  
*Automatic Extraction of Mandibular Bone Geometry for Anatomy-  
Based Synthesis of Radiographs*, pp. 490-493.

Antila, Kari VTT  
Lilja, Mikko Helsinki Univ. of Tech.  
Kalke, Martti PaloDEX Group  
Lötjönen, Jyrki VTT Tech. Res. Centre of Finland

**ThBPo08** Exhibit Hall C  
**Sensor-Based Systems for Monitoring Posters (Poster Session)**

10:30-12:00 ThBPo08.1  
*Smart Garments for Emergency Operators: Results on Laboratory and  
Field Tests*, pp. 494-497.

Curone, Davide Univ. degli Studi di Pavia  
Dudnik, Gabriela CSEM  
Loriga, Giannicola Smartex s.r.l.  
Magenes, Giovanni Univ. of Pavia  
Secco, Emanuele Lindo Eucentre  
Tognetti, Alessandro Univ. of Pisa  
Bonfiglio, Annalisa Univ. of Cagliari

10:30-12:00 ThBPo08.2  
*Wireless Fall Sensor with GPS Location for Monitoring the Elderly*,  
pp. 498-501.

Campo, Eric Univ. de Toulouse; UTM; LATTIS  
Grangereau, Etienne Univ. de Toulouse; UTM; LATTIS

10:30-12:00 ThBPo08.3  
*Fast Prototype of a Wireless Cardiac Rhythm Interpretive Instrument*,  
pp. 502-505.

Wong, Kiing-Ing Curtin Univ. of Tech.  
Ho, Mel Meau Shin imperial Coll.

- |  |                                   |  |   |
|--|-----------------------------------|--|---|
| 10:30-12:00  | ThBPo08.4                         | 10:30-12:00  | ThBPo08.14                                |
| <i>An Integrated Platform for the Driver's Physiological and Functional States Assessment</i> , pp. 506-509.           |                                   | <i>Exquisite Textiles Sensors and Wireless Sensor Network Device for Home Health Care</i> , pp. 546-549. |   |
| Ramon Zarate, Carolina   | INSA Lyon                         | Huang, Wen-Tzeng   | National Taipei Univ. of Tech.            |
| Clarion, Antoine   | RENAULT                           | Chen, Chin-Hsing   | Central Taiwan Univ. of Science and Tech. |
| Gehin, Claudine  | INSA Lyon                         | Chang, Yuan-Jen  | Central Taiwan Univ. of Science and Tech. |
| Petit, Claire  | Renault                           | Chen, You-Yin  | National Chiao-Tung Univ.                 |
| Collet, Christian  | Claude Bernard Univ.              | Huang, Jung-Lin  | National Taipei Univ. of Tech.            |
| Dittmar, Andre   | INSA Lyon                         | Yang, Chang-Ming   | Ming Yang Biomedical Corp.                |
|  |                                   | Yang, Tzu-lin  | Ming Young Biomedical Corp.               |
| 10:30-12:00  | ThBPo08.5                         |  |   |
| <i>A System for Assessing Motion Artifacts in the Signal of a Micro-Optic In-Ear Vital Signs Sensor</i> , pp. 510-513. |                                   |  |   |
| Vogel, Stefan  | RWTH Aachen Univ.                 |  |   |
| Huelsbusch, Markus   | RWTH Aachen Univ.                 |  |   |
| Starke, Dietmar  | CiS Inst. fuer Mikrosensorik GmbH |  |   |
| Leonhardt, Steffen   | RWTH Aachen Univ.                 |  |   |
| 10:30-12:00  | ThBPo08.6                         |  |   |
| <i>Assessment of Sleep/Wake Patterns Using a Non-Contact Biomotion Sensor</i> , pp. 514-517.                           |                                   |  |   |
| de Chazal, Phillip   | BiancaMed Ltd                     |  |   |
| O'Hare, Emer   | BiancaMed Ltd.                    |  |   |
| Fox, Niall   | BiancaMed                         |  |   |
| Heneghan, Conor  | BiancaMed                         |  |   |
| 10:30-12:00  | ThBPo08.7                         |  |   |
| <i>Sensitivity of a Single Coil Electromagnetic Sensor for Non-Contact Monitoring of Breathing</i> , pp. 518-521.      |                                   |  |   |
| Seeton, Rosalyn  | Carleton Univ.                    |  |   |
| Adler, Andy  | Carleton Univ.                    |  |   |
| 10:30-12:00  | ThBPo08.8                         |  |   |
| <i>Automatic Home Care System for Monitoring HR/RR During Sleep</i> , pp. 522-525.                                     |                                   |  |   |
| Zhu, Xin   | the Univ. of Aizu                 |  |   |
| Chen, Wenxi  | Univ. of Aizu                     |  |   |
| Tang, Zunyi  | Univ. of Aizu                     |  |   |
| Nemoto, Tetsu  | Univ. of Kanazawa                 |  |   |
| Wei, Daming  | Univ. of Aizu                     |  |   |
| 10:30-12:00  | ThBPo08.9                         |  |   |
| <i>Development of the Device to Detect Human's Bio-Signals by Easy Sensing</i> , pp. 526-529.                          |                                   |  |   |
| Asaoka, Takahiro   | Tokai Univ.                       |  |   |
| Kanaeda, Yoshiaki  | Tokai Univ.                       |  |   |
| Magatani, Kazushige  | Tokai Univ.                       |  |   |
| 10:30-12:00  | ThBPo08.10                        |  |   |
| <i>Film-Type Transducer Materials PVDF and EMFi in the Measurement of Heart and Respiration Rates</i> , pp. 530-533.   |                                   |  |   |
| Karki, Satu  | Tampere Univ. of Tech.            |  |   |
| Lekkala, Jukka   | Tampere Univ. of Tech.            |  |   |
| 10:30-12:00  | ThBPo08.11                        |  |   |
| <i>Development of Bio-Signal Measurement System for Sports Healthcare</i> , pp. 534-537.                               |                                   |  |   |
| Park, Sung Jun   | Yonsei Univ.                      |  |   |
| Jeong, Incheol   | Yonsei Univ.                      |  |   |
| Sim, Myeong Heon   | Yonsei Univ.                      |  |   |
| Yoon, Uk Jin   | Yonsei Univ.                      |  |   |
| Shin, Tae Min  | Yonsei Univ.                      |  |   |
| Yoon, Hyungro  | Yonsei Univ.                      |  |   |
| 10:30-12:00  | ThBPo08.12                        |  |   |
| <i>Ratpack: Wearable Sensor Networks for Animal Observation</i> , pp. 538-541.   |                                   |  |   |
| Osechas, Okuary  | Tübingen Univ.                    |  |   |
| Thiele, Johannes   | Tübingen Univ.                    |  |   |
| Bitsch, Jó   | RWTH Aachen Univ.                 |  |   |
| Wehrle, Klaus  | RWTH Aachen Univ.                 |  |   |
| 10:30-12:00  | ThBPo08.13                        |  |   |
| <i>A Handle Electrode System for Measuring Heart Rate While Riding a Bicycle</i> , pp. 542-545.                        |                                   |  |   |
| Watanabe, Masutaka   | Tokyo Denki Univ.                 |  |   |
| Tsakamoto, Sosuke  | Tokyo Denki Univ.                 |  |   |
| Hoshino, Hiroshi   | Tokyo Denki Univ.                 |  |   |
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|---|---|
| <b>ThBPo09</b>  | Exhibit Hall C                                    |
| <b>Integration of Computational and Experimental Approaches</b>   |   |
| (Poster Session)  |   |
| 10:30-12:00   | ThBPo09.1   |
| <i>Computed Myography (CMG): Three Dimensional Reconstruction of Motor Functions from Surface EMG Data</i> , pp. 550-554.                 |   |
| van den Doel, Kees  | Univ. of British Columbia                         |
| Ascher, Uri M.  | UBC   |
| Curt, Armin   | UBC   |
| Steeves, John   | UBC   |
| Pai, Dinesh K.  | UBC   |
| 10:30-12:00   | ThBPo09.2   |
| <i>A Mesh Free Mechanic Model of the Upper Gastrointestinal System</i> , pp. 555-558.   |   |
| Gastélum Strozzi, Alfonso   | Univ. of Auckland                                 |
| Marquez, Jorge Alberto  | UNAM-CCADET                                       |
| Mosso, Jose   | ISSSTE  |
| Delmas, Patrice   | Univ. of Auckland                                 |
| 10:30-12:00   | ThBPo09.3   |
| <i>An Electrical Model of the Cell-Electrode Interface for High-Density Microelectrode Arrays</i> , pp. 559-562.                          |   |
| Joye, Neil  | EPFL  |
| Alexandre, Schmid   | EPFL  |
| Leblebici, Yusuf  | EPFL  |
| 10:30-12:00   | ThBPo09.4   |
| <i>Charge Distributions of Active Biological Pores</i> , pp. 563-566.   |   |
| Klee, Maurice   | IEEE Engineering in Medicine and Biology Magazine |
| 10:30-12:00   | ThBPo09.5   |
| <i>Muscle Reflection Human Computer Model in Wheelchairs Traveling in Motor Vehicles</i> , pp. 567-572.                                   |   |
| Takano, Junichi   | Tokyo Metropolitan Univ.                          |
| Aomura, Shigeru   | Tokyo Metropolitan Univ.                          |
| 10:30-12:00   | ThBPo09.6   |
| <i>A Platform for in Silico Modeling of Physiological Systems II. CellML Compatibility and Other Extended Capabilities</i> , pp. 573-576. |   |
| Suzuki, Yasuyuki  | Osaka Univ.                                       |
| Asai, Yoshiyuki   | Osaka Univ.                                       |
| Kawazu, Toshihiro   | Osaka Univ.                                       |
| Nakanishi, Masao  | Osaka Univ.                                       |
| Taniguchi, Yoshiki  | Osaka Univ.                                       |
| Heien, Eric   | Osaka Univ.                                       |
| Hagihara, Kenichi   | Osaka Univ.                                       |
| Kurachi, Yoshihisa  | Osaka Univ.                                       |
| Nomura, Taishin   | Osaka Univ.                                       |
| 10:30-12:00   | ThBPo09.7   |
| <i>Large Scale Cardiac Modeling on the Blue Gene Supercomputer</i> , pp. 577-580.   |   |
| Reumann, Matthias   | IBM T. J. Watson Res. Center                      |
| Fitch, Blake G  | IBM T. J. Watson Res. Center                      |
| Rayshubskiy, Alex   | IBM   |
| Keller, David Urs Josef   | Univ. Karlsruhe (TH)                              |
| Weiss, Daniel L.  | Univ. Karlsruhe (TH)                              |
| Seemann, Gunnar   | Univ. Karlsruhe (TH)                              |
| Doessel, Olaf   | Univ. of Karlsruhe                                |
| Pitman, Michael C   | IBM T. J. Watson Res. Center                      |
| Rice, John J  | IBM T. J. Watson Res. Center                      |

**ThBPo10** Exhibit Hall C  
**Electrocardiology, Arrhythmias and Cardiac Pacing (Poster Session)**

- 10:30-12:00 ThBPo10.1  
*Comparison of Analysis Techniques of Diabetic Cardiac Action Potential Propagation*, pp. 581-584.  
Phillips, Trevor Paul Univ. of Calgary  
Nygren, Anders Univ. of Calgary
- 10:30-12:00 ThBPo10.2  
*A Computer Simulation of Clinical Electrophysiological Study*, pp. 585-588.  
Zhu, Xin the Univ. of Aizu  
Wei, Daming Univ. of Aizu
- 10:30-12:00 ThBPo10.3  
*Usage of Cardiac Simulation Results in Source Localization of Focal Epicardial Arrhythmias Using Statistical Estimation*, pp. 589-592.  
Cunedioğlu, Ugur Baskent Univ.  
Baysoy, Engin Baskent Univ.  
Yilmaz, Bulent Baskent Univ.
- 10:30-12:00 ThBPo10.4  
*Simulating the Effects of Atrial Fibrillation Induced Electrical Remodeling: A Comprehensive Simulation Study*, pp. 593-596.  
Kharche, Sanjay Univ. of Manchester  
Zhang, Henggui Univ. of Manchester
- 10:30-12:00 ThBPo10.5  
*Development of a New Arbitrary Waveform Defibrillator for Cardiac Electrophysiology Research*, pp. 597-600.  
Triventi, Michele Italian National Inst. of Health  
Mattei, Eugenio Italian National Inst. of Health  
Delogu, Antonello Italian National Inst. of Health  
Censi, Federica Italian National Inst. of Health  
Calcagnini, Giovanni Italian National Inst. of Health  
Bartolini, Pietro Italian National Inst. of Health  
Aguel, Felipe FDA  
Stohlman, Jayna Food and Drug Administration  
Krauthamer, Victor Food and Drug Administration
- 10:30-12:00 ThBPo10.6  
*RR Interval Analysis for Detection of Atrial Fibrillation in ECG Monitors*, pp. 601-604.  
Ghodrati, Alireza Draeger Medical Systems, Inc  
Murray, William Draeger Medical Systems, Inc  
Marinello, Stephen Draeger Medical Systems, Inc
- 10:30-12:00 ThBPo10.7  
*Model Study of Imaging Myocardial Infarction by Intracardiac Electrical Impedance Tomography*, pp. 605-606.  
Li, Ying Hebei Univ. of Tech.  
Rao, Liyun The Methodist Hospital Res. Inst.  
Ling, Yuesheng The Methodist Hospital Res. Inst.  
He, Renjie Univ. of Texas Medical School at Houston  
Khoury, Dirar The Methodist Hospital Res. Inst.

**ThBPo11** Exhibit Hall C  
**Stochastic and Combinatorial Models and Algorithms for Networks in Systems Biology and Biomedicine (Invited Session)**

- Organizer: Liang, Jie Univ. of Illinois at Chicago
- 10:30-12:00 ThBPo11.1  
*A Simplified Model for Lysogenic Regulation through DNA Looping (I)*, pp. 607-610.  
Yang, Haw UC Berkeley  
Anderson, L. Meadow Univ. of California Berkeley
- 10:30-12:00 ThBPo11.2  
*Stochastic Probability Landscape Model for Switching Efficiency, Robustness, and Differential Threshold for Induction of Genetic Circuit in Phage  $\lambda$  (I)*, pp. 611-614.  
Cao, Youfang Shanghai Jiao Tong Univ.  
Lu, Hsiao-Mei Univ. of Illinois at Chicago  
Liang, Jie Univ. of Illinois at Chicago

**ThBPo12** Exhibit Hall C  
**Brain Machine Interface Posters (Poster Session)**

- 10:30-12:00 ThBPo12.2  
*A Real-Time Virtual Integration Environment for the Design and Development of Neural Prosthetic Systems*, pp. 615-619.  
Bishop, William Johns Hopkins Applied Physics Lab.  
Armiger, Robert Johns Hopkins Univ. Applied Physics Lab.  
Burck, James The Johns Hopkins Univ.  
Bridges, Michael The Johns Hopkins Univ.  
Hauschild, Markus Univ. of Southern California  
Englehart, Kevin Univ. of New Brunswick  
Scheme, Erik Univ. of New Brunswick  
Vogelstein, R. Jacob Johns Hopkins Univ.  
Beaty, James Johns Hopkins Univ.  
Harshbarger, Stuart JHU-APL
- 10:30-12:00 ThBPo12.3  
*Extracting Alpha Band Modulation During Visual Spatial Attention without Flickering Stimuli Using Common Spatial Pattern*, pp. 620-623.  
Fujisawa, Junya The Univ. of Tokyo  
Touyama, Hideaki The Univ. of Tokyo  
Hirose, Michitaka the Univ. of Tokyo
- 10:30-12:00 ThBPo12.4  
*Channel Selection by Genetic Algorithms for Classifying Single-Trial ECoG During Motor Imagery*, pp. 624-627.  
Wei, Qingguo Nanchang Univ.  
Tu, Wei Nanchang Univ.
- 10:30-12:00 ThBPo12.5  
*The Use of a Virtual Integration Environment for the Real-Time Implementation of Neural Decode Algorithms*, pp. 628-633.  
Bishop, William Johns Hopkins Applied Physics Lab.  
Yu, Byron M. Stanford Univ.  
Santhanam, Gopal Stanford Univ.  
Afshar, Afsheen Stanford Univ.  
Ryu, Stephen Stanford Univ.  
Shenoy, Krishna Stanford Univ.  
Vogelstein, R. Jacob Johns Hopkins Univ.  
Beaty, James Johns Hopkins Univ.  
Harshbarger, Stuart JHU-APL
- 10:30-12:00 ThBPo12.6  
*Motor Prediction in Brain-Computer Interfaces for Controlling Mobile Robots*, pp. 634-637.  
Gan, John Q. Univ. of Essex, UK  
Geng, Tao Univ. of Essex
- 10:30-12:00 ThBPo12.7  
*Unsupervised Brain Computer Interface Based on Inter-Subject Information*, pp. 638-641.  
Lu, Shijian Inst. for Infocomm Res. A\*STAR  
Guan, Cuntai Inst. for Infocomm Res.  
Zhang, Haihong Inst. for Infocomm Res.
- 10:30-12:00 ThBPo12.8  
*A Brain-Computer Interface (BCI) System Based on Auditory Stream Segregation*, pp. 642-645.  
Kanoh, Shin'ichiro Tohoku Univ.  
Miyamoto, Ko-ichiro Tohoku Univ.  
Yoshinobu, Tatsuo Tohoku Univ.
- 10:30-12:00 ThBPo12.9  
*BMI Cyberworkstation: Enabling Dynamic Data-Driven Brain-Machine Interface Research through Cyberinfrastructure*, pp. 646-649.  
Zhao, Ming Univ. of Florida  
Rattanatamrong, Prapaporn Univ. of Florida  
DiGiovanna, Jack Univ. of Florida  
Mahmoudi, Babak Univ. of Florida  
Figueiredo, Renato Univ. of Florida  
Sanchez, Justin C. Univ. of Florida  
Principe, Jose Univ. of Florida  
Fortes, José Univ. of Florida



10:30-12:00 ThBPo12.10  
*Evaluating the Performance of a Self-Paced BCI with a New Movement and Using a More Engaging Environment*, pp. 650-653.  
 Fatourehchi, Mehrdad Univ. of British Columbia  
 Ward, Rabab Univ. of British Columbia  
 Birch, Gary E. Univ. of British Columbia

10:30-12:00 ThBPo12.11  
*Possibility of Reinforcement Learning Based on Event-Related Potential*, pp. 654-657.  
 Yamagishi, Yuya Nagaoka Univ. of Tech.  
 Tsubone, Tadashi Nagaoka Univ. of Tech.  
 Wada, Yasuhiro Nagaoka Univ. of Tech.

10:30-12:00 ThBPo12.12  
*Visual P300-Based BCI to Steer a Wheelchair: A Bayesian Approach*, pp. 658-661.  
 Pires, Gabriel Univ. of Coimbra  
 Castelo-Branco, Miguel Univ. of Coimbra  
 Nunes, Urbano Univ. of Coimbra

10:30-12:00 ThBPo12.13  
*Improving the Performance of Brain-Computer Interface through Meditation Practicing*, pp. 662-665.  
 Eskandari, Parvaneh Iran Univ. of Science and Tech.  
 Erfanian, Abbas Iran Univ. of Science and Tech.

10:30-12:00 ThBPo12.14  
*Simultaneous Detection Method of P300 Event-Related Potentials and Eye Gaze Point Using Multi-Pseudorandom and Flash Stimulation for Brain Computer Interface.*, pp. 666-669.  
 Momose, Keiko Waseda Univ.

**ThBPo13** Exhibit Hall C  
**Clinical Measurements (Poster Session)**

10:30-12:00 ThBPo13.1  
*Development of a Compact Mock Circulation System and a New Flow-Cell Model for Pulse Spectrophotometry*, pp. 670-673.  
 Oura, Mitsuhiro Nihon Kohden Corp.  
 Kobayashi, Naoki Nihon Kohden Corp.  
 Takeda, Sunao Nihon Kohden Corp.  
 Iwasaki, Kiyotaka Waseda Univ.  
 Umezu, Mitsuo Waseda Univ. Graduate School

10:30-12:00 ThBPo13.2  
*Non-Invasive Measurement of Valsalva-Induced Hemodynamic Changes on a Bathroom Scale Ballistocardiograph*, pp. 674-677.  
 Inan, Omer Stanford Univ.  
 Etemadi, Mozziyar Stanford Univ.  
 Wiard, Richard Stanford Univ.  
 Kovacs, Gregory T.A. Stanford Univ.  
 Giovangrandi, Laurent Stanford Univ.

10:30-12:00 ThBPo13.3  
*Experimental Sensitivity Study of Inductive Phase Shift Spectroscopy As Non-Invasive Method for Hypoperfusion vs Bleeding Volumetric Detection in Brain*, pp. 678-681.  
 Flores, Omar Inst. Pol. NACIONAL  
 Rubinsky, Boris Univ. of California - Berkeley  
 González, César A Univ. del Ejército y Fuerza Aérea

10:30-12:00 ThBPo13.4  
*Detection of Subjects with Higher Self-Reporting Stress Scores Using Heart Rate Variability Patterns During the Day*, pp. 682-685.  
 Kim, Desok Information and Communications Univ.  
 Seo, Yunhwan Information and Communications Univ.  
 Cho, Jaegeol Samsung Electronics  
 Cho, Chulho Samsung Electronics

10:30-12:00 ThBPo13.5  
*Quantifying Time Awake Posturographically*, pp. 686-688.  
 Forsman, Pia Finnish Inst. of Occupational Health  
 Wallin, Anders Univ. of Helsinki  
 Tietäväinen, Aino Saija Marika Univ. of Helsinki  
 Haeggström, Edward Univ. of Helsinki

10:30-12:00 ThBPo13.6  
*Characteristics Study Biosignal Response During Electro-Acupuncture Stimulation in Human Subjects*, pp. 689-692.  
 Kim, Min Soo Toyouhashi Univ. of Tech.

**ThBPo14** Exhibit Hall C  
**Clinical Devices (Poster Session)**

10:30-12:00 ThBPo14.1  
*A Reliability Study of a Back Strain Monitor Based on Clinical Trials*, pp. 693-696.

Ronchi, Andrew RMIT  
 Lech, Margaret RMIT  
 Taylor, Nick La Trobe Univ.  
 Cosic, Irena RMIT Univ.

10:30-12:00 ThBPo14.2  
*Development of Failure Detection System Based on Vibration Signal for Smart Artificial Heart: In Vitro Study*, pp. 697-702.

Tsujimura, Shinichi Univ. of Tsukuba  
 Kuwabara, Takashi Univ. of Tsukuba  
 Koguchi, Harutoshi Univ. of Tsukuba  
 Yamane, Takashi National Inst. of Advanced Industrial Science and Tech.

Tsutsui, Tatsuo Univ. of Tsukuba  
 Sankai, Yoshiyuki Univ. of Tsukuba

10:30-12:00 ThBPo14.3  
*The Effect of Surface Neuromuscular Electrical Stimulation and Compression Hosiery Applied to the Lower Limb, on the Comfort and Blood Flow of Healthy Subjects*, pp. 703-706.

Corley, Gavin National Univ. of Ireland Galway  
 Breen, Paul National Univ. of Ireland Galway  
 Grace, Pierce Mid Western Regional Hospital  
 ÓLaighin, Gearóid National Univ. of Ireland, Galway

10:30-12:00 ThBPo14.4  
*A Target Control Infusion Method for Neuromuscular Blockade Based on Hybrid Parameter Estimation*, pp. 707-710.

Alonso, Hugo Faculdade de Ciências da Univ. do Porto  
 Lemos, João M. INESC-ID  
 Mendonça, Teresa Faculdade de Ciências

10:30-12:00 ThBPo14.5  
*Sensorless Control for a Sophisticated Artificial Myocardial Contraction by Using Shape Memory Alloy Fibre*, pp. 711-714.

Shiraishi, Yasuyuki Tohoku Univ.  
 Yambe, Tomoyuki Tohoku Univ.  
 Saijo, Yoshifumi Tohoku Univ.  
 Tanaka, Akira Fukushima Univ.  
 Baba, Atsushi Tohoku Univ.  
 Yoshizawa, Makoto Tohoku Univ.  
 Sugai, Telma Keiko Tohoku Univ.  
 Uematsu, Miyuki Waseda Univ.  
 Park, Young Kwang Waseda Univ.

10:30-12:00 ThBPo14.6  
*An Electronic Implant for Hydrocephalus Therapy Assistance*, pp. 715-718.

Jetzki, Stefanie RWTH Aachen Univ.  
 Leonhardt, Steffen RWTH Aachen Univ.

10:30-12:00 ThBPo14.7  
*Isothermic vs Thermoneutral Dialysis Evaluation by Indirect Calorimetry*, pp. 719-722.

Cadena, Miguel Univ. Autonoma Metropolitana

10:30-12:00 ThBPo14.8  
*Skin Stimulation by the Fluid Powered Self-Excited Oscillation and Its Effect on the Human Body*, pp. 723-726.

Tsukagoshi, Hideyuki Tokyo Inst. of Tech.  
 Suzuki, Takeaki Tokyo Inst. of Tech.



10:30-12:00	ThBPo14.9		
<i>Training for Knee Injury Prevention Using a Pivoting Elliptical Machine</i> , pp. 727-730.			
Yupeng, Ren	Rehabilitation Inst. of Chicago		
Park, Hyung-Soon	Rehabilitation Inst. of Chicago		
Wu, Yi-Ning	National Cheng Kung Univ.		
Geiger, François	RIC		
Zhang, Liqun	Northwestern Univ.		
10:30-12:00	ThBPo14.10		
<i>Swallow Stent with Hyperthermia Function</i> , pp. 731-734.			
Yambe, Tomoyuki	Tohoku Univ.		
10:30-12:00	ThBPo14.11		
<i>Fabrication of New Magnetic Micro-Machines for Minimally Invasive Surgery</i> , pp. 735-738.			
Troisi, Chiara Stella	Pol. di Torino		
Knäflitz, Marco	Pol. di Torino		
Olivetti, Elena	I.N.Ri.M.		
Martino, Luca	I.N.Ri.M.		
Durin, Gianfranco	I.N.Ri.M.		
<b>ThBPo15</b>	Exhibit Hall C		
<b>Telehealth Posters (Poster Session)</b>			
10:30-12:00	ThBPo15.1		
<i>Implementation of an Integrated Drug Information System for Inpatients to Reduce Medication Errors in Adminstrating Stage</i> , pp. 743-746.			
Sung, Lawrence	Taipei Medical Univ.		
Hung, Fei-Hung	Taipei Medical Univ.		
Chiu, Hung-Wen	Taipei Medical Univ.		
10:30-12:00	ThBPo15.1		
<i>Using HSPA to Improve the Telemedical Links on a Moving Ambulance</i> , pp. 739-742.			
Banitsas, Konstantinos	Brunel Univ.		
Stefanidis, Euclid	TEI Thessaloniki		
Boletis, Konstantinos	TEI Thessaloniki		
10:30-12:00	ThBPo15.2		
<i>VolunteerGet - a Novel Information System for Engaging Society in Volunteering for Emergency Care</i> , pp. 747-750.			
Varadarajan, Vivek	Univ. of Massachusetts, Amherst		
Ganz, Aura	Univ. of Massachusetts, Amherst		
10:30-12:00	ThBPo15.3		
<i>Unused Information: Detecting and Applying Eye Contact Data in Computerized Healthcare Systems</i> , pp. 751-754.			
Lepinski, G. Julian	Queen's Univ.		
Vertegaal, Roel	Queen's Univ.		
10:30-12:00	ThBPo15.4		
<i>MediNet: Personalizing the Self-Care Process for Patients with Diabetes and Cardiovascular Disease Using Mobile Telephony</i> , pp. 755-758.			
Mohan, Permanand	The Univ. of the West Indies		
Marin, Dylan	The Univ. of the West Indies		
Sultan, Salys	The Univ. of the West Indies		
Deen, Ahad	The Univ. of the West Indies		
10:30-12:00	ThBPo15.5		
<i>Telemedicine Network Physical Connection Design for Remote Areas. Case Baruta - El Hatillo</i> , pp. 759-762.			
Zambrano, Andreina	Simon Bolivar Univ.		
Huerta, Mónica	Simon Bolivar Univ.		
Diaz, Miguel	Simon Bolivar Univ.		
Vivas, Tibisay	Univ. Simon Bolivar		
10:30-12:00	ThBPo15.6		
<i>Performance Evaluation of Cellular Phone Network Based Portable ECG Device</i> , pp. 763-766.			
Hong, Joo Hyun	Chungbuk National Univ.		
Cha, Eun Jong	Chungbuk National Univ.		
Lee, Tae Soo	Chungbuk National Univ.		
10:30-12:00			ThBPo15.7
<i>IMS: A New Technology to Develop a Telemedicine System</i> , pp. 767-770.			
Uceda Fernandez, Juan David			Seville Univ.
Elena, Mar			Univ. of Seville
Blasco, Silvia			Univ. of Seville
Tarrida, Cristina L.			Univ. de Sevilla
Quero, Jose M.			Univ. de Sevilla
10:30-12:00			ThBPo15.8
<i>Electronic Orthotics Shoe: Preventing Ulceration in Diabetic Patients</i> , pp. 771-774.			
Dabiri, Foad		Univ. of California Los Angeles	
Vahdatpour, Alireza		Univ. of California Los Angeles	
Noshadi, Hyduke		Univ. of California Los Angeles	
Hagopian, Hagop		Univ. of California Los Angeles	
Sarrafzadeh, Majid		Univ. of California Los Angeles	
10:30-12:00			ThBPo15.9
<i>Consultation Virtual Collaborative Environment for 3D Medicine</i> , pp. 775-778.			
Krsek, Premysl			Brno Univ.
10:30-12:00			ThBPo15.10
<i>Design of an Intelligent and Personalised Shunting System for Hydrocephalus</i> , pp. 779-782.			
Momani, Lina			Univ. of Liverpool
Alkharabshah, Abdel Rahman			Univ. of Liverpool
Al-Nuaimy, Waleed			Univ. of Liverpool
10:30-12:00			ThBPo15.11
<i>3.5G Based Mobile Remote Monitoring System</i> , pp. 783-786.			
Bajracharya, Aman			Univ. of Tasmania
Gale, Timothy John			Univ. of Tasmania
Stack, Clive Rohan			Univ. of Tasmania
Turner, Paul			Univ. of Tasmania
10:30-12:00			ThBPo15.12
<i>The Development of Personalised Cognitive Prosthetics</i> , pp. 787-790.			
Nugent, Chris			Univ. of Ulster
Davies, Richard John			Univ. of Ulster
Donnelly, Mark			Univ. of Ulster
Hallberg, Josef			Luleå Univ. of Tech.
Hariz, Mossaab		Inst. Telecom-TelecomSudParis	
Craig, David		Queen's Univ. Belfast	
Meiland, Franka		VU Univ. medical center	
Moelaert, Ferial		Telematica Inst.	
Bengtsson, Johan Eric		Luleå Univ. of Tech.	
Mulvenna, Maurice		Univ. of Ulster	
Dröes, Rose-Marie		VU Univ. medical center	
10:30-12:00			ThBPo15.13
<i>Experimental Evaluations of Wearable ECG Monitor</i> , pp. 791-794.			
Ha, Kiryong			ETRI (Electronics and Telecommunications Res. Inst.
Kim, Young Sung			ETRI
Jung, Joonyoung			ETRI
Lee, Jeunwoo			ETRI
10:30-12:00			ThBPo15.14
<i>STDAS: Sensing Task and Data Aggregation Scheduling for Astronaut Health Monitoring Using Wireless Mesh Networks</i> , pp. 795-798.			
Shen, Jian			Univ. of Houston
Liu, Haoying			Univ. of Houston
Yuan, Xiaojing			Univ. of Houston
Moges, Mequanint			Univ. of Houston
10:30-12:00			ThBPo15.15
<i>Web-Based Evaluation of Parkinson's Disease Subjects: Objective Performance Capacity Measurements and Subjective Characterization Profiles</i> , pp. 799-802.			
Kondraske, George			Univ. of Texas at Arlington
Stewart, R. Malcolm			Presbyterian Hospital of Dallas

ThCT1	Ballroom A
<b>EMBS-LEOS Joint Symposium: Emerging High-Resolution Optical Imaging Technologies Based on Photons: Confocal and OCT (Minisymposium)</b>	
Organizer: Li, Xingde	Univ. of Washington
Organizer: Ilev, Ilko	FDA
14:00-14:30	ThCT1.1
<i>Optical Scattering As a Contrast Mechanism in Confocal Imaging (I)</i> , pp. 803-803.	
Jacques, Steven	Oregon Health & Science Univ.
15:00-15:30	ThCT1.3
<i>In Vivo Volumetric Blood Flow Imaging Using Optical Microangiography at Capillary Level Resolution (I)</i> , pp. 804-804.	
Wang, Rui kang	Oregon Health & Science Univ.
15:00-15:30	ThCT1.5
<i>Cardiac Research Applications of OCT Imaging (I)*</i> .	
Rollins, Andrew M.	Case Western Res. Univ.

ThCT2	Ballroom B
<b>Physiological Monitoring (Oral Session)</b>	
14:00-14:15	ThCT2.1
<i>Comparison of Flow-Sound Relationship for Different Features of Tracheal Sound</i> , pp. 805-808.	
Yadollahi, Azadeh	Univ. of Manitoba
Moussavi, Zahra	Univ. of Manitoba
14:15-14:30	ThCT2.2
<i>Non-Symmetrical Double-Logistic Analysis of 24 Hour Arterial Stiffness Profile in Normotensive and Hypertensive Subjects</i> , pp. 809-812.	
Bia, Daniel	School of Medicine, Republic Univ.
Armentano, Ricardo	Favaloro Univ.
Pessana, Franco Martin	Favaloro Univ.
Zócalo, Yanina	School of Medicine, Republic Univ.
Lluberas, Sebastian	School of Medicine
Avolio, Alberto	Macquarie Univ.
14:30-14:45	ThCT2.3
<i>A New Approach to Reconstruction of Central Aortic Blood Pressure Using "Adaptive" Transfer Function</i> , pp. 813-816.	
Hahn, Jin-Oh	MIT
Reisner, Andrew	Massachusetts General Hospital
Jaffer, Farouc Amin	Massachusetts General Hospital / Harvard Medical School
Asada, Harry	MIT
14:45-15:00	ThCT2.4
<i>Quantification of Forward and Backward Arterial Waves by Model-Based Analysis of Aortic and Femoral Artery Pressure Waveforms</i> , pp. 817-820.	
Swamy, Gokul	Michigan State Univ.
Olivier, Bari	Michigan State Univ.
Mukkamala, Ramakrishna	Michigan State Univ.
15:00-15:15	ThCT2.5
<i>User-Guided Interictal Spike Detection</i> , pp. 821-824.	
El-Gohary, Mahmoud	Portland State Univ.
McNames, James	Portland State Univ.
Elsas, Siegwand-M.	Oregon Health and Science Univ.
15:15-15:30	ThCT2.6
<i>Power Analysis of Gamma Frequencies (30-47Hz), Adjusting for Muscle Activity (80-97Hz), in Anesthesia: A Comparison between Young Adults, Middle-Aged and the Elderly</i> , pp. 825-830.	
Pritchett, Stacey	Monash Univ.
Zilberg, Eugene	Compumedics Limited
Xu, Ming	Compumedics Limited
Burton, David	Monash Univ.
Brown, Ian	Monash Univ.
Myles, Paul	Alfred Hospital

ThCT3	Ballroom C
<b>Contrast-Enhanced Dynamic MRI (Oral Session)</b>	
14:00-14:15	ThCT3.1
<i>Contrast Enhanced Magnetic Resonance Imaging of the Liver</i> , pp. 831-834.	
Noterdaeme, Olivier	Univ. of Oxford
Brady, Michael	Univ. of Oxford
14:15-14:30	ThCT3.2
<i>Dynamic Contrast-Enhanced MRI of Ocular Biotransport in Normal and Hypertensive Eyes</i> , pp. 835-838.	
Chan, Kevin C.	The Univ. of Hong Kong
Fu, Qing-ling	The Univ. of Hong Kong
So, Kwok-fai	The Univ. of Hong Kong
Wu, Ed X.	The Univ. of Hong Kong
14:30-14:45	ThCT3.3
<i>Quantitative Accuracy of Delayed Hyperperfusion in MRI of Transient Ischemia in the Rats</i> , pp. 839-842.	
Nakamura, Kazuhiro	Akita Res. Inst. for Brain and Blood Vessels
Wright, David	Akita Res. Inst. for Brain and Blood Vessels
Kondoh, Yasushi	Akita Res. Inst. for Brain and Blood Vessels
Mizusawa, Shigenori	Akita Res. Inst. for Brain and Blood Vessels
Kinoshita, Toshibumi	Akita Res. Inst. for Brain and Blood Vessels
14:45-15:00	ThCT3.4
<i>Uptake and Distribution of Gadolinium in the Ocular Lens</i> , pp. 843-846.	
Vaghefi, Ehsan	The Univ. of Auckland
Jacobs, Marc D	The Univ. of Auckland
15:00-15:15	ThCT3.5
<i>A New Denoising Method for Dynamic Contrast-Enhanced MRI</i> , pp. 847-850.	
Gal, Yaniv	Univ. of Queensland
Mehnert, Andrew James Heinrich	The Univ. of Queensland
Bradley, Andrew Peter	Univ. of Queensland
McMahon, Kerry	Greenslopes Private Hospital
Kennedy, Dominic	Greenslopes Private Hospital
Crozier, Stuart	The Univ. of Queensland
15:15-15:30	ThCT3.6
<i>Assessment of Vessel Size by MRI in an Orthotopic Model of Human Pancreatic Cancer</i> , pp. 851-854.	
Flexman, Jennifer A.	British Columbia Cancer Agency
Yung, Andrew	Univ. of British Columbia
Yapp, Donald	BC Cancer Agency/Univ. of British Columbia
Ng, Sylvia S. W.	British Columbia Cancer Agency
Kozlowski, Piotr	Univ. of British Columbia

ThCT4	Room 11 & 12
<b>Image Segmentation (Oral Session)</b>	
14:00-14:15	ThCT4.1
<i>Detection of Brachytherapy Seeds Using 3D Ultrasound</i> , pp. 855-858.	
Wen, Xu	Univ. of British Columbia
Salcudean, Septimiu E.	Univ. of British Columbia
14:15-14:30	ThCT4.2
<i>CT and Image Processing Non-Invasive Indicators of Sickle Cell Secondary Pulmonary Hypertension</i> , pp. 859-862.	
Linguraru, Marius George	National Inst. of Health
Orandi, Babak	National Inst. of Health
Van Uitert, Robert	National Inst. of Health
Mukherjee, Nisha	NIH
Summers, Ronald	National Inst. of Health
Gladwin, Mark	National Heart, Lung, and Blood Inst. National Inst. o
Machado, Roberto	NIH
Wood, Bradford	NIH

14:30-14:45	ThCT4.3	14:45-15:00	ThCT5.4
<i>Shape-Guided Active Contour Based Segmentation and Tracking of Lumbar Vertebrae in Video Fluoroscopy Using Complex Wavelets</i> , pp. 863-866.		<i>A Subject-Specific Finite Element Model of the Anterior Cruciate Ligament</i> , pp. 891-894.	
Wong, Alexander	Univ. of Waterloo	Zhang, Xiaoyan	Tongji Univ.
Mishra, Akshaya Kumar	Univ. of Waterloo	Jiang, Guotai	Tongji Univ.
Fieguth, Paul	Univ. of Waterloo	Wu, Changfu	Univ. of Pittsburgh
Clausi, David Anthony	Univ. of Waterloo	Woo, Savio L-Y.	Univ. of Pittsburgh
Dunk, Nadine	Univ. of Waterloo		
Callaghan, Jack	Univ. of Waterloo	15:00-15:15	ThCT5.5
14:45-15:00	ThCT4.4	<i>Computer Simulation of Knee Arthrometry to Study the Effects of Partial ACL Injury and Tibiofemoral Contact</i> , pp. 895-898.	
<i>Automated Segmentation of the Quadratus Lumborum Muscle from Magnetic Resonance Images Using a Hybrid Atlas Based - Geodesic Active Contour Scheme</i> , pp. 867-870.		Rahemi, Hadi	Sharif Univ. of Tech.
Engstrom, Craig	Univ. of Queensland	Farahmand, Farzam	Sharif Univ. of Tech.
Crozier, Stuart	The Univ. of Queensland	Rezaeian, Tahmineh	Sharif Univ. of Tech.
Jurcak, Valer	The Univ. of Queensland	Parnianpour, Mohammad	Sharif Univ. of Tech.
Walker, Duncan	The Univ. of Queensland		
Ourselin, Sebastien	CSIRO ICT Centre	15:15-15:30	ThCT5.6
Salvado, Olivier	CSIRO	<i>The Effects of Geometry and Fiber Bundle Orientation on the Finite Element Modeling of the Anterior Cruciate Ligament</i> , pp. 899-902.	
Fripp, Jurgen	CSIRO	Zhang, Xiaoyan	Tongji Univ.
15:00-15:15	ThCT4.5	Wu, Changfu	Univ. of Pittsburgh
<i>Determination of Food Portion Size by Image Processing</i> , pp. 871-874.		Jiang, Guotai	Tongji Univ.
Sun, Mingui	Univ. of Pittsburgh	Woo, Savio L-Y.	Univ. of Pittsburgh
Liu, Qiang	Univ. of Pittsburgh		
Schmidt, Karel	Czech Tech. Univ.	<b>ThCT6</b>	Room 2 & 3
Yang, Jie	Carnegie Mellon Univ.	<b>Seizure Detection Methods (Oral Session)</b>	
Yao, Ning	Univ. of Pittsburgh	14:00-14:15	ThCT6.1
Fernstrom, John D.	Univ. of Pittsburgh	<i>Seizure Detection in Neonates: Improved Classification through Supervised Adaptation</i> , pp. 903-906.	
Fernstrom, Madelyn H.	Univ. of Pittsburgh	Thomas, Eoin	Univ. Coll. Cork
DeLany, James P.	UPMC	Greene, Barry R.	Univ. Coll. Cork
Sciabassi, Robert	Univ. of Pittsburgh	Lightbody, Gordon	Univ. Coll. Cork
15:15-15:30	ThCT4.6	Marnane, Liam	Univ. Coll. Cork
<i>A Classification-Based Segmentation of Cdna Microarray Images Using Support Vector Machines</i> , pp. 875-878.		Boylan, Geraldine	Univ. Coll. Cork
Giannakeas, Nikolaos	Univ. of Ioannina	14:15-14:30	ThCT6.2
Karvelis, Petros	Univ. of Ioannina	<i>Detection of Neonatal EEG Seizure Using Multichannel Matching Pursuit</i> , pp. 907-910.	
Fotiadis, Dimitrios I.	Univ. of Ioannina	Khelif, Mohamed Salah	Univ. of Queensland
15:15-15:30	ThCT4.7	Mesbah, Mostefa	Univ. of Queensland
<i>Graph Cut under Elliptical Shape Constraint for Segmentation of Cervical Lymph Nodes on Ultrasonograms*</i> .		Boashash, Boualem	Univ. of Queensland
Zhang, Junhua	Fudan Univ.	Colditz, Paul	Univ. of Queensland
Wang, Yuanyuan	Fudan Univ.		
Lou, Edmond H.	Glenrose Rehabilitation Hospital	14:30-14:45	ThCT6.3
Le, Lawrence	Univ. of Alberta	<i>A Novel Dual-Stage Classifier for Automatic Detection of Epileptic Seizures</i> , pp. 911-914.	
<b>ThCT5</b>	Room 1	Yadav, Rajeev	Concordia Univ.
<b>Orthopedic Biomechanics (Oral Session)</b>		Agarwal, Rajeev	Concordia Univ.
14:00-14:15	ThCT5.1	Swamy, M.N.S.	Concordia Univ.
<i>A Multisegmental Foot Model with Bone-Based Referencing: Sensitivity to Radiographic Input Parameters</i> , pp. 879-882.		14:45-15:00	ThCT6.4
Long, Jason	Medical Coll. of Wisconsin	<i>Automated Single Channel Seizure Detection in the Neonate</i> , pp. 915-918.	
Wang, Mei	Marquette Univ.	Greene, Barry R.	Univ. Coll. Cork
Winters, Jack	Marquette Univ.	Boylan, Geraldine	Univ. Coll. Cork
Harris, Gerald	Marquette Univ.	Marnane, Liam	Univ. Coll. Cork
14:15-14:30	ThCT5.2	Lightbody, Gordon	Univ. Coll. Cork
<i>Effect of Vertebral Morphology on Lumbar Kinematics in Elderly Subjects with Decreased Bone Mineral Density</i> , pp. 883-886.		Faul, Stephen	Univ. Coll. Cork
Ma, Heather Ting	The Chinese Univ. of Hong Kong	Connolly, Sean	St. Vincent's Univ. Hospital
Griffith, James F	The Chinese Univ. of Hong Kong	15:00-15:15	ThCT6.5
Yang, Zhengyi	Univ. of Queensland	<i>A Novel Wavelet-Based Index to Detect Epileptic Seizures Using Scalp EEG Signals</i> , pp. 919-922.	
Kwok, Anthony WL	The Chinese Univ. of Hong Kong	Shahidi Zandi, Ali	The Univ. of British Columbia
Leung, Ping-chung	the Chinese Univ. of Hong Kong	Dumont, Guy	Univ. of British Columbia
Lee, Raymond	Univ. of Brighton	Javidan, Manouchehr	Univ. of British Columbia & Vancouver General Hospital
14:30-14:45	ThCT5.3	Tafreshi, Reza	Texas A&M Univ.
<i>Modeling the Relation between Muscle Thickness and Wrist Angle Based on Bone-Muscle Lever Model</i> , pp. 887-890.		MacLeod, Bernard	Univ. of British Columbia
Shi, Jun	Shanghai Univ.	Ries, Craig	Univ. of British Columbia
Zheng, Yongping	The Hong Kong Pol. Univ.	Puil, Ernie	Univ. of British Columbia
Huang, Qinghua	City Univ. of Hong Kong		
Zhu, Yisheng	Shanghai Jiaotong Univ. Shanghai, China		

15:15-15:30	ThCT6.6				
<i>Quadratic Time-Frequency Distribution Selection for Seizure Detection in the Newborn</i> , pp. 923-926.					
Stevenson, Nathan	Univ. of Queensland				
Mestefa	Univ. of Queensland				
Boashash, Boualem	Univ. of Queensland				
15:15-15:30	ThCT6.7				
<i>Epileptic Seizure Detection in EEG Recordings Using Phase Congruency</i> , pp. 927-930.					
Wongsawat, Yodchanan	Mahidol Univ.				
<b>ThCT7</b>	Room 8 & 15				
<b>Novel Sensing Technology II (Oral Session)</b>					
14:00-14:15	ThCT7.1				
<i>Autonomic Nervous System Response to Vibrating and Electrical Stimuli on the Forearm and Wrist</i> , pp. 931-934.					
Barralon, Pierre	Fatronic				
Dumont, Guy	Univ. of British Columbia				
Schwarz, Stephan K. W.	The Univ. of British Columbia				
Ansermino, J. Mark	British Columbia's Children's Hospital				
14:15-14:30	ThCT7.2				
<i>Embedded Capacitive Sensor System for Hip Surgery Rehabilitation: Online Measurements and Long-Term Stability</i> , pp. 935-938.					
Salpavaara, Timo, Juhani	Tampere Univ. of Tech.				
Verho, Jarmo	Tampere Univ. of Tech.				
Lekkala, Jukka	Tampere Univ. of Tech.				
Halttunen, Jouko Elias	Tampere Univ. of Tech.				
14:30-14:45	ThCT7.3				
<i>Real-Time Observation of Potential Conformational Changes of Proteins During Electromagnetic Field Exposure</i> , pp. 939-942.					
Beyer, Christian	ETH Zürich				
Froehlich, Juerg	Univ. Zurich				
Jelezarov, Ilian	Zürich Univ.				
14:45-15:00	ThCT7.4				
<i>Parallel Multipoint Recording of Aligned and Cultured Neurons on Corresponding Micro Channel Array Toward On-Chip Cell Analysis</i> , pp. 943-946.					
Tonomura, Wataru	Ritsumeikan Univ.				
Moriguchi, Hiroyuki	Univ. of Tokyo				
Jimbo, Yasuhiko	Univ. of Tokyo				
Konishi, Satoshi	Ritsumeikan Univ.				
15:00-15:15	ThCT7.5				
<i>Functional Evaluation of Magnetic Microactuators for Removing Biological Accumulation: An in Vitro Study</i> , pp. 947-950.					
Lee, Selene	Univ. of California, Los Angeles				
Pinney, James	UCLA				
Khialeeva, Elvira	UCLA				
Bergsneider, Marvin	Univ. of California, Los Angeles				
Judy, Jack	UCLA				
15:15-15:30	ThCT7.6				
<i>Numerical Analysis of Temperature Elevation in the Head Due to Power Dissipation in a Cortical Implant</i> , pp. 951-956.					
Silay, Kanber Mithat	Ec. Pol. Fédérale de Lausanne				
Dehollain, Catherine	Ec. Pol. Federale de Lausanne				
Declercq, Michel	EPFL				
<b>ThCT8</b>	Room 19 & 20				
<b>Ventricular Mechanics (Oral Session)</b>					
14:00-14:15	ThCT8.1				
<i>An Approximation Model of Myocardial Crossbridge for Weak Coupling Calculation of Left Ventricle Model and Circulation Model</i> , pp. 957-960.					
Amano, Akira	Kyoto Univ.				
Takada, Yasuhiro	Kyoto Univ.				
Lu, Jianyin	Kyoto Univ.				
Shimayoshi, Takao	ASTEM Res. Inst. of Kyoto				
Matsuda, Tetsuya	Kyoto Univ.				
14:15-14:30	ThCT8.2				
<i>On the Calculation of Principle Curvatures of the Left-Ventricular Surfaces</i> , pp. 961-964.					
Claus, Piet	Catholic Univ. Leuven				
Choi, Hon Fai	KULeuven				
D'hooge, Jan	KULeuven				
Rademakers, Frank E	KULeuven				
14:30-14:45	ThCT8.3				
<i>In-Vitro Evaluation of Sensors and Amplifiers to Measure Left Ventricular Pressure in Mice</i> , pp. 965-968.					
Hartley, Craig J.	Baylor Coll. of Medicine				
Reddy, Anilkumar K.	Baylor Coll. of Medicine				
Taffet, George E.	Baylor Coll. of Medicine				
14:45-15:00	ThCT8.4				
<i>High Resolution Contrast Ultrasound and NADH Fluorescence Imaging of Myocardial Perfusion in Excised Rat Hearts</i> , pp. 969-972.					
Kay, Matthew	The George Washington Univ.				
Swift, Luther	The George Washington Univ.				
Sangave, Amit	The George Washington Univ.				
Zderic, Vesna	The George Washington Univ.				
15:00-15:15	ThCT8.5				
<i>Abnormal Ventriculo-Arterial Coupling in Patients with Acute Myocardial Infarction after Thrombolysis*</i> .					
Wang, Jia-Jung	I-Shou Univ.				
Liu, Chun-Peng	Kaohsiung Veterans General Hospital				
15:15-15:30	ThCT8.6				
<i>Preliminary Study on the Estimation of Emax Using Single-Beat Methods During Assistance with RBPs</i> , pp. 973-976.					
Sugai, Telma Keiko	Tohoku Univ.				
Yoshizawa, Makoto	Tohoku Univ.				
Yambe, Tomoyuki	Tohoku Univ.				
Tanaka, Akira	Fukushima Univ.				
Baba, Atsushi	Tohoku Univ.				
Shiraishi, Yasuyuki	Tohoku Univ.				
<b>ThCT9</b>	Room 10				
<b>Sensor-Based Systems for Monitoring (Oral Session)</b>					
14:00-14:15	ThCT9.1				
<i>Wireless Application in Intravenous Infiltration Detection System</i> , pp. 977-980.					
Alley, Matthew S.	CW Optics, Inc.				
Naramore, William J	CW Optics, Inc.				
Chou, Nee-Yin	CW Optics, Inc.				
Winchester, Leonard W.	CW Optics, Inc.				
14:15-14:30	ThCT9.2				
<i>Wearable Microwave Radiometers for Remote Fire Detection: System-On-Chip (SoC) Design and Proof of the Concept</i> , pp. 981-984.					
Tasselli, G	Univ. of Perugia				
Alimenti, Federico	Univ. of Perugia				
Fonte, Alessandro	Univ. of Pisa				
Zito, Domenico	Univ. of Pisa				
Roselli, Luca	Univ. of Perugia				
De Rossi, Danilo	Univ. of Pisa				
Lanata', Antonio	Univ. of Pisa				
Neri, Bruno	Univ. of Pisa				
Tognetti, Alessandro	Univ. of Pisa				
14:30-14:45	ThCT9.3				
<i>Magnetic Endotracheal Tube Imaging Device</i> , pp. 985-988.					
Wichakool, Warit	Massachusetts Inst. of Tech.				
Pierquet, Brandon	Massachusetts Inst. of Tech.				
Sheridan, Robert	Shriner's Hospital for Children Boston				
Ma, Hongshen	Massachusetts Inst. of Tech.				
14:45-15:00	ThCT9.4				
<i>Motion Based Adaptive Calibration of Pulse Transit Time Measurements to Arterial Blood Pressure for an Autonomous, Wearable Blood Pressure Monitor</i> , pp. 989-992.					
McCombie, Devin	Massachusetts Inst. of Tech.				
Reisner, Andrew	Massachusetts General Hospital				
Asada, Harry	MIT				

15:00-15:15	ThCT9.5		
<i>Design of a Wireless Telemetric Backpack Device for Real-Time in Vivo Measurement of Pressure-Volume Loops in Conscious Ambulatory Rats</i> , pp. 993-996.			
Raghavan, Karthik	The Univ. of Texas at Austin		
Kottam, Anil T.G.	Univ. of Texas at Austin		
Valvano, Jonathan	Univ. of Texas at Austin		
Pearce, John Anthony	Univ. of Texas at Austin		
15:15-15:30	ThCT9.6		
<i>Voice Quality Monitoring: A Portable Device Prototype</i> , pp. 997-1000.			
Manfredi, Claudia	Univ. degli Studi di Firenze		
Bruschi, Tommaso	Univ. degli Studi di Firenze		
Dallai, Alessandro	Univ. degli Studi di Firenze		
Ferri, Alessandro	Univ. degli Studi di Firenze		
Tortoli, Piero	Univ. degli Studi di Firenze		
Calisti, Marcello	Univ. degli Studi di Firenze		
<b>ThCT10</b>		Room 18	
<b>Classification Methods (Oral Session)</b>			
14:00-14:15	ThCT10.1		
<i>Classification of EEG with Structural Feature Dictionaries in a Brain Computer Interface</i> , pp. 1001-1004.			
Goksu, Fikri	Univ. of Minnesota		
Ince, Nuri Firat	Univ. of Minnesota		
Tadipatri, Vijay Aditya	Univ. of Minnesota		
Tewfik, Ahmed	Univ. of Minnesota		
14:15-14:30	ThCT10.2		
<i>Multiclass Voluntary Facial Expression Classification Based on Filter Bank Common Spatial Pattern</i> , pp. 1005-1008.			
Chin, Zheng Yang	Inst. for Infocomm Res.		
Ang, Kai Keng	Inst. for Infocomm Res.		
Guan, Cuntai	Inst. for Infocomm Res.		
14:30-14:45	ThCT10.3		
<i>An On-Line BCI for Control of Hand Grasp Sequence and Holding Using Adaptive Probabilistic Neural Network</i> , pp. 1009-1012.			
Khodam Hazrati, Mehrnaz	Iran Univ. of Science and Tech.		
Erfanian, Abbas	Iran Univ. of Science and Tech.		
14:45-15:00	ThCT10.4		
<i>Optimal Input Selection for Neural Machine Interfaces Predicting Multiple Non-Explicit Outputs</i> , pp. 1013-1016.			
Krepkovich, Eileen	Northwestern Univ.		
Perreault, Eric	Northwestern Univ.		
15:00-15:15	ThCT10.5		
<i>The Estimation of Long-Term Memory Characteristics in MEA Neuronal Culture Recordings</i> , pp. 1017-1020.			
Esposti, Federico	Pol. di Milano		
Signorini, Maria G.	Pol. di Milano		
15:15-15:30	ThCT10.6		
<i>Task-Irrelevant Alpha Component Analysis in Motor Imagery Based Brain Computer Interface</i> , pp. 1021-1024.			
Lou, Bin	Tsinghua Univ.		
Hong, Bo	Tsinghua Univ.		
Gao, Shangkai	Tsinghua Univ.		
<b>ThCT11</b>		Room 16	
<b>Anesthesiology: Problems Related to the Monitoring of Physiological Parameters (Minisymposium)</b>			
Organizer: Barralon, Pierre		Fatronik	
14:00-14:15	ThCT11.1		
<i>Evaluations of Tactile Displays of Physiological Monitoring (I)</i> , pp. 1025-1025.			
Barralon, Pierre	Fatronik		
Ng, Ginna	Univ. of British Columbia		
Dumont, Guy	Univ. of British Columbia		
Schwarz, Stephan K. W.	The Univ. of British Columbia		
Ansermino, J. Mark	British Columbia's Children's Hospital		
14:15-14:30	ThCT11.2		
<i>Can Technology Further Improve the Safety of Anesthesia? (I)</i> , pp. 1026-1027.			
Ansermino, J. Mark	British Columbia's Children's Hospital		
14:30-14:45	ThCT11.3		
<i>The Use of Mathematical Models and Clinical Knowledge in Intraoperative Vital Sign Trend Monitoring (I)</i> , pp. 1028-1028.			
Yang, Ping	Univ. of British Columbia		
14:45-15:00	ThCT11.4		
<i>Graphic Data Displays to Detect-Diagnose-Treat Critical Events During Anesthesia (I)</i> , pp. 1029-1029.			
Westenskow, Dwayne	Univ. of Utah		
15:00-15:15	ThCT11.5		
<i>Perceptual Limits on the Visual Monitoring Task (I)</i> , pp. 1030-1031.			
Rensink, Ronald A.	Univ. of British Columbia		
<b>ThCT12</b>		Room 17	
<b>Molecular and Cellular Biomechanics (Oral Session)</b>			
14:00-14:15	ThCT12.1		
<i>Study on Time-Frequency Characteristics of Cellular Transmembrane Potentials Based on Equivalent Circuit Model</i> , pp. 1032-1035.			
Yao, Chenguo	Chongqing University		
Hu, Xiaoqian	Chongqing Inst. of Tech.		
Li, Cx	Chongqing Univ.		
Mi, Yan	Chongqing Univ.		
Sun, Caixin	Chongqing Univ.		
14:15-14:30	ThCT12.2		
<i>In Silico Simulation of Epithelial Cell Tubulogenesis</i> , pp. 1036-1039.			
Engelberg, Jesse	Univ. of California, San Francisco		
Kim, Minji	UCSF		
Mostov, Keith	Univ. of California San Francisco School of Medicine		
Hunt, C. Anthony	Univ. of California		
14:30-14:45	ThCT12.3		
<i>Protective Antigen Composite Nanofibers As a Transdermal Anthrax Vaccine</i> , pp. 1040-1043.			
Knockenbauer, Kevin	Stony Brook Univ.		
Sawicka, Katarzyna	Stony Brook Univ.		
Roemer, Elizabeth	Stony Brook Univ.		
Simon, Sanford	Stony Brook Univ.		
14:45-15:00	ThCT12.4		
<i>Experiment and Mechanism Research of SKOV3 Cancer Cell Apoptosis Induced by Nanosecond Pulsed Electric Field</i> , pp. 1044-1047.			
Yao, Chenguo	Chongqing University		
Mi, Yan	Chongqing Univ.		
Hu, Xiaoqian	Chongqing Inst. of Tech.		
Li, Cx	Chongqing Univ.		
Sun, Caixin	Chongqing Univ.		
Tang, Junying	Chongqing Univ. of Medical Science		
Wu, Xiaojuan	Chongqing Univ. of Medical Science		
15:00-15:15	ThCT12.5		
<i>A Dynamic Clonal Selection Immune Clustering Algorithm</i> , pp. 1048-1051.			
Chen, Yaowen	SHANTOU		
Huang, Lin	Zengcheng Coll. of SCNU		
Luo, Wei-ming	Shantou Univ.		
Huang, Jing-xia	Shantou Univ.		
Wu, RenHua	Shantou Univ. Medical Coll.		
15:15-15:30	ThCT12.6		
<i>Non-Thermal Effects of 500MHz – 900MHz Microwave Radiation on Enzyme Kinetics</i> , pp. 1052-1055.			
Pirogova, Elena	RMIT Univ.		
Vojisavljevic, Vuk	RMIT Univ.		
Cosic, Irena	RMIT Univ.		
<b>ThCT13</b>		Room 9	
<b>Student Paper Competition III: Biomedical Imaging Studies (Oral Session)</b>			
14:00-14:15	ThCT13.1		
<i>A Network Flow Method for Improved MR Field Map Estimation in the Presence of Water and Fat*</i> .			
Hernando, Diego	Univ. of Illinois at Urbana-Champaign		
Kellman, Peter	NIH/NHLBI		
Haldar, Justin	Univ. of Illinois at Urbana-Champaign		
Liang, Zhi-Pei	Univ. of Illinois, Urbana-Champaign		

14:15-14:30	ThCT13.2		15:30-17:00	ThDPo01.7
<i>Calibration of X-Ray Radiographs and Its Feasible Application for 2D/3D Reconstruction of the Proximal Femur*</i>			<i>Feasibility Study on Driver's Stress Detection from Differential Skin Temperature Measurement</i> , pp. 1076-1079.	
Schumann, Steffen	MEM Res. Center, Univ. of Bern		Yamakoshi, Takehiro	Kanazawa Univ.
Zheng, Guoyan	Univ. of Bern		Yamakoshi, Ken-ichi	Kanazawa Univ.
Nolte, Lutz-Peter	Univ. of Bern		Tanaka, Shinobu	Kanazawa Univ.
14:30-14:45	ThCT13.3		Nogawa, Masamichi	Kanazawa Univ.
<i>Magnetic Resonance Described in the Excitation Dependent Rotating Frame of Reference*</i>			Park, Sang Bum	Kanazawa Univ.
Tahayori, Bahman	Univ. of Melbourne		Shibata, Masahiro	Shibaura Inst. of Tech.
Johnston, Leigh A.	Univ. of Melbourne		Sawada, Yukihiro	Sapporo Medical Univ.
Mareels, Iven	Melbourne Univ. Australia		Rolfe, Peter	Oxford BioHorizons Ltd
Farrell, Peter Mark	The Univ. of Melbourne		Hirose, Yukio	Kanazawa Univ.
14:45-15:00	ThCT13.4		<b>ThDPo02</b>	Exhibit Hall C
<i>Towards a Microcoil for Intracranial and Intraductal MR Microscopy*</i>			<b>Signal Classification (Poster Session)</b>	
Strick, Debra	UCLA		15:30-17:00	ThDPo02.1
Judy, Jack	UCLA		<i>Feature Extraction for Analysis of ECG Signals</i> , pp. 1080-1083.	
Nunnally, Ray	InVivoMetrics, Inc.		Ubeyli, Elif Derya	TOBB Ec. and Tech. Univ.
Smith, Jolinda	Univ. of Oregon		15:30-17:00	ThDPo02.2
Clark, W. Gilbert	Univ. of California, Los Angeles		<i>Spectral Analysis on the Microcirculatory Laser Doppler Signal at the Acupuncture Point</i> , pp. 1084-1086.	
Mills, Dixie J.	Dr. Susan Love Res. Foundation		Hsin, Hsiu	Yuan Ze Univ.
Cohen, Mark S.	Univ. of California, Los Angeles		Wei-Chen, Hsu	Taipei City Hospital
15:00-15:15	ThCT13.5		Chia-Liang, Hsu	Yuan Ze Univ.
<i>Correction of Inhomogeneities in Magnetic Resonance Images*</i>			Shih-Min, Huang	Yuan Ze Univ.
Noterdaeme, Olivier	Univ. of Oxford		Ming-Yie, Jan	Acad. Sinica
Brady, Michael	Univ. of Oxford		Wei-Kung, Wang	Acad. Sinica
			Yuh-Ying, Wang Lin	National Taiwan Normal Univ.
<b>ThDPo01</b>	Exhibit Hall C		15:30-17:00	ThDPo02.3
<b>Physiological Monitoring Posters (Poster Session)</b>			<i>On the Detection of Premature Ventricular Contractions</i> , pp. 1087-1091.	
15:30-17:00	ThDPo01.1		Couceiro, Ricardo	Univ. of Coimbra
<i>Fetal Movement Quantification by Fetal Vectorcardiography: A Preliminary Study</i> , pp. 1056-1059.			Carvalho, Paulo	Univ. of Coimbra
Vullings, Rik	Eindhoven Univ. of Tech.		Henriques, Jorge	Univ. of Coimbra
Peters, Christiaan Hendrik Leonard	Amphia Hospital		Antunes, Manual	Univ. of Coimbra
Mischi, Massimo	Eindhoven Univ. of Tech.		15:30-17:00	ThDPo02.4
Oei, S. Guid	Maxima Medisch Centrum, Veldhoven		<i>Clustering and Modeling of EEG Coherence Features of Alzheimer's and Mild Cognitive Impairment Patients</i> , pp. 1092-1095.	
Bergmans, Johannes Wilhelmus Maria	Eindhoven Univ. of Tech.		Akrofi, Kwaku	Texas Tech. Univ.
15:30-17:00	ThDPo01.2		Baker, Mary	Texas Tech. Univ.
<i>Estimating the Time Constant of Pitch Rvior by Separation of Otoliths and Semicircular Canals Contributions</i> , pp. 1060-1063.			O'Boyle, Michael	Texas Tech. Univ.
Bertolini, Giovanni	Univ. of Pavia		Schiffer, Randolph	Texas Tech. Univ. Health Sciences Center
Ramat, Stefano	Univ. di Pavia		15:30-17:00	ThDPo02.5
Bockisch, Christopher	Zurich Univ. Hospital		<i>Increase in Regularity and Decrease in Variability Seen in Electroencephalography (EEG) Signals from Alert to Fatigue During a Driving Simulated Task</i> , pp. 1096-1099.	
Straumann, Dominik	Zurich Univ. Hospital		Tran, Yvonne	Univ. of Tech. Sydney
Zee, David	johns hopkins Univ.		Wijesuriya, Nirupama Samanmalie	Univ. of Tech. Sydney (UTS)
15:30-17:00	ThDPo01.4		Thuraisingham, Ranjit Arulnayagam	Univ. of Tech. Sydney
<i>Detection of Ventilatory Threshold by an Automatic Parabolic Model</i> , pp. 1064-1067.			Craig, Ashley	Univ. of Tech. Sydney
Mello, Roger Gomes Tavares de	Federal Univ. of Rio de Janeiro		Nguyen, Hung T.	Univ. of Tech. Sydney
Jesus, Igor Ramathur	Federal Univ. of Rio de Janeiro		15:30-17:00	ThDPo02.6
Buarque, Reinaldo Ferreira	Estacio de Sa Univ.		<i>Linear Discriminant Analysis of MUAP Scalograms</i> , pp. 1100-1103.	
Oliveira, Liliam Fernandes de	Federal Univ. of Rio de Janeiro		Dobrowolski, Andrzej P.	Military Univ. of Tech.
Nadal, Jurandir	Federal Univ. of Rio de Janeiro		Jakubowski, Jacek	Military Univ. of Tech.
15:30-17:00	ThDPo01.5		Tomczykiewicz, Kazimierz	Military Inst. of Health Service
<i>Joint Angle Tracking with Inertial Sensors</i> , pp. 1068-1071.			15:30-17:00	ThDPo02.7
El-Gohary, Mahmoud	Portland State Univ.		<i>An Adaptive Filter Bank for Motor Imagery Based Brain Computer Interface</i> , pp. 1104-1107.	
Pearson, Sean	Portland State Univ.		P. T., Kavitha	Nanyang Tech. Univ.
McNames, James	Portland State Univ.		Guan, Cuntai	Inst. for Infocomm Res.
15:30-17:00	ThDPo01.6		Chiew Tong, Lau	Nanyang Tech. Univ.
<i>Identification of Onset, Maximum and Termination of Obstructive Sleep Apnoea Events in Single Lead ECG Recordings</i> , pp. 1072-1075.			Achutavarrier Prasad, Vinod	Nanyang Tech. Univ.
Karmakar, Chandan K.	The Univ. of Melbourne		15:30-17:00	ThDPo02.8
Khandoker, Ahsan Habib	The Univ. of Melbourne		<i>An Analysis of EEG When Acupuncture with Wavelet Entropy</i> , pp. 1108-1111.	
Palaniswami, Marimuthu	The Univ. of Melbourne		Li, Nuo	Electrical and Atuoation Tianjin Univ.
			Wang, Jiang	Tianjin Univ.
			Deng, Bin	Tianjin Univ.
			Dong, Feng	Tianjin Univ.

15:30-17:00	ThDPo02.9	15:30-17:00	ThDPo02.18
<i>Identification of Independent Biological Sensors-Electromyogram Example</i> , pp. 1112-1115.		<i>Automatic Ballistocardiogram (BCG) Beat Detection Using a Template Matching Approach</i> , pp. 1144-1146.	
Naik, Ganesh R	Royal Melbourne Univ. of Tech.	Shin, Jae Hyuk	Seoul National Univ.
Kant Kumar, Dinesh	RMIT Univ.	Choi, Byoung Hoon	Seoul National Univ.
Palaniswami, Marimuthu	The Univ. of Melbourne	Lim, Yong Kyu	Seoul National Univ.
15:30-17:00	ThDPo02.10	Jeong, Do-Un	Seoul National Univ. Hospital
<i>Automated Diagnostic Method Supporting EMG Examination</i> , pp. 1116-1119.		Park, Kwang S.	Seoul National Univ.
Komur, Piotr	Military Univ. of Tech.	15:30-17:00	ThDPo02.19
Dobrowolski, Andrzej P.	Military Univ. of Tech.	<i>A Comparison between a Matrix-Based and a Region-Based P300 Speller Paradigms for Brain-Computer Interface</i> , pp. 1147-1150.	
D.,browski, Tadeusz	Military Univ. of Tech.	Fazel-Rezai, Reza	Univ. of Manitoba
Tomczykiewicz, Kazimierz	Military Inst. of Health Service	Abhari, Kamyar	Univ. of Manitoba
15:30-17:00	ThDPo02.11	15:30-17:00	ThDPo02.20
<i>Freauency Domain Approach for Activity Classification Using Accelerometer</i> , pp. 1120-1123.		<i>Automatic Sleep Stage Classification Based on EEG Signals by Using Neural Networks and Wavelet Packet Coefficients</i> , pp. 1151-1154.	
Chung, Wan-Young	Dongseo	Ebrahimi, Farideh	shahed Univ.
Amit, Purwar	Dongseo Univ.	Mikaili, Mohammad	Head of Biomedical Eng. Dep. at Shahed Univ.
Sharma, Annapurna	Dongseo Univ.	Estrada, Edson	The Univ. of Texas at El Paso
15:30-17:00	ThDPo02.12	Nazeran, Homayoun	The Univ. of Texas at El Paso
<i>Addressing Source Separation and Identification Issues in Surface EMG Using Blind Source Separation</i> , pp. 1124-1127.		15:30-17:00	ThDPo02.21
Naik, Ganesh R	Royal Melbourne Univ. of Tech.	<i>A Comparative Study of the Performance of Different Spectral Estimation Methods for Classification of Mental Tasks</i> , pp. 1155-1158.	
Kant Kumar, Dinesh	RMIT Univ.	Diez, Pablo Federico	Univ. Nacional de San Juan
Palaniswami, Marimuthu	The Univ. of Melbourne	Laciar, Eric	Univ. Nacional de San Juan
15:30-17:00	ThDPo02.13	Mut, Vicente	Univ. Nacional de San Juan
<i>Atrial Premature Beats Detection Using Heart Rate Variability Analysis and Fuzzy C-Means Clustering*</i> .		Avila Perona, Enrique Mario	National Univ. of San Juan
Rodríguez-Sotelo, Jose-Luis	Univ. Nacional de Colombia sede Manizales	Torres, Abel	Univ. Pol. de Catalunya
Cuesta-Frau, David	Pol. Univ. of Valencia	15:30-17:00	ThDPo02.22
Castellanos-Dominguez, Germán	Univ. Nacional de Colombia, sede Manizales	<i>Constrained Temporal Extraction of the Atrial Rhythm in Atrial Fibrillation Episodes</i> , pp. 1159-1162.	
15:30-17:00	ThDPo02.14	Llinares Llopis, Raul	Univ. Pol. Valencia
<i>Atrial Fibrillation Detection Using Stationary Wavelet Transform Analysis</i> , pp. 1128-1131.		Igual Garcia, Jorge	Univ. Pol. Pol.
Weng, Binwei	Philips Medical Systems	Salazar Afanador, Addisson	Univ. Pol. de Valencia
Wang, John	Philips Medical Systems	Vergara Dominguez, Luis	Univ. Pol. Valencia
Michaud, Francis	Philips Medical Systems	15:30-17:00	ThDPo02.23
Blanco-Velasco, Manuel	Univ. of Alcalá	<i>Ischemia Detection Via ECG Using ANFIS</i> , pp. 1163-1166.	
15:30-17:00	ThDPo02.15	Gharaviri, Ali	K.N. Univ. of Tech.
<i>Automatic Classification of Inspiratory Flow Limitation Assessed Non-Invasively During Sleep</i> , pp. 1132-1135.		Tehsnehlab, Mohammad	K.N. Univ. of Tech.
Morgenstern, Christian	Univ. Pol. de Catalunya (UPC)	Abrishami Moghaddam, Hamid	Univ. of Picardie Jules Verne
Jané, Raimon	Univ. Pol. de Catalunya	15:30-17:00	ThDPo02.24
Schwaibold, Matthias	MCC-Med GmbH & Co KG	<i>A Computationally Light Classification Method for Mobile Wellness Platforms</i> , pp. 1167-1170.	
Randerath, Winfried	Klinikum Bethanien	Könönen, Ville	VTT Tech. Res. Centre of Finland
15:30-17:00	ThDPo02.16	Mäntyjärvi, Jani	VTT Tech. Res. Centre of Finland
<i>Real-Time Automated Neural-Network Sleep Classifier Using Single Channel EEG Recording for Detection of Narcolepsy Episodes</i> , pp. 1136-1139.		Similä, Heidi	VTT, Tech. Res. Centre
Gabran, Salam	Univ. of Waterloo	Pärkkä, Juha	VTT
Zhang, Shawn	Univ. of Waterloo	Ermes, Miikka	VTT Tech. Res. Centre
Salama, Magdy	Univ. of Waterloo	<b>ThDPo03</b>	<b>Exhibit Hall C</b>
Mansour, Raafat	Univ. of Waterloo	<b>Electrical Impedance Imaging Posters (Poster Session)</b>	
George, Charles Frederick	Univ. of Western Ontario	15:30-17:00	ThDPo03.2
15:30-17:00	ThDPo02.17	<i>A Study of Composite Electrode-Tissue Impedance</i> , pp. 1171-1174.	
<i>Respiratory Rate Detection Algorithms by Photoplethysmography Signal Processing</i> , pp. 1140-1143.		Robinson, Rebecca	The Univ. of Manchester
Lee, Eun Mi	Chungbuk National Univ.	Pomfrett, Chris	Univ. of Manchester
Kim, Naehyun	Chungbuk National Univ.	McCann, Hugh	Univ. of Manchester
Nguyen, Thuy Trang	Chungbuk National Unviersity	15:30-17:00	ThDPo03.3
Hong, Joo Hyun	Chungbuk National Univ.	<i>3D Electric Impedance Tomography Reconstruction on Multi-Core Computing Platforms</i> , pp. 1175-1177.	
Cha, Eun Jong	Chungbuk National Univ.	Borsic, Andrea	Dartmouth Coll.
Lee, Tae Soo	Chungbuk National Univ.	Hartov, Alexander	Dartmouth Coll.
		Manwaring, Preston	Dartmouth Coll.
		15:30-17:00	ThDPo03.4
		<i>Arbitrary Geometry Patient Interfaces for Breast Cancer Detection and Monitoring with Electrical Impedance Tomography</i> , pp. 1178-1180.	
		Manwaring, Preston	Dartmouth Coll.
		Halter, Ryan	Dartmouth Coll.
		Borsic, Andrea	Dartmouth Coll.
		Hartov, Alexander	Dartmouth Coll.



15:30-17:00 <i>A New Impedance Imaging System and Dipole Basis Reconstruction Method</i> , pp. 1181-1184. Bennett, D. Loew, Murray	ThDPo03.5 The George Washington Univ. George Washington Univ.	15:30-17:00 <i>ITAC Volume Assessment through a Gaussian Hidden Markov Random Field Model-Based Algorithm</i> , pp. 1218-1221. Passera, Katia Potepan, Paolo Brambilla, Luca Mainardi, Luca	ThDPo04.6 Pol. di Milano Istituto Nazionale dei Tumori Pol. di milano Pol. di Milano
15:30-17:00 <i>Monitoring Retroperitoneal Bleeding Model of Piglets by Electrical Impedance Tomography</i> , pp. 1185-1187. You, Fusheng Shuai, Wanjun Shi, Xuetao Fu, Feng Liu, Ruigang Dong, Xiuzhen	ThDPo03.6 Fourth Military Medical Univ. Fourth Military Medical Univ. Fourth Military Medical Univ. Fourth Medical Univ. Fourth Military Medical Univ. Fourth Military Medical Univ.	<b>ThDPo05</b> <b>Multispectral Image Analysis (Poster Session)</b>	Exhibit Hall C
15:30-17:00 <i>Preliminary Research on Monitoring of Cerebral Ischemia Using Electrical Impedance Tomography Technique</i> , pp. 1188-1191. Shi, Xuetao You, Fusheng Fu, Feng Liu, Ruigang You, Yu Dai, Meng Dong, Xiuzhen	ThDPo03.8 Fourth Military Medical Univ. Fourth Military Medical Univ. Fourth Medical Univ. Fourth Military Medical Univ. Fourth Military Medical Univ. Fourth Military Medical Univ. Fourth Military Medical Univ.	15:30-17:00 <i>Detection of Chromosomal Abnormalities with Multi-Color Fluorescence in Situ Hybridization (M-FISH) Imaging and Multi-Spectral Wavelet Analysis</i> , pp. 1222-1225. Wang, Yu-Ping	ThDPo05.1 Univ. of Missouri-Kansas City
15:30-17:00 <i>Imaging Forearm Blood Flow with Pulse-Ox Gated Electrical Impedance Tomography</i> , pp. 1192-1195. Halter, Ryan Hartov, Alexander	ThDPo03.9 Dartmouth Coll. Dartmouth Coll.	15:30-17:00 <i>Color Multiscale Texture Classification of Hysteroscopy Images of the Endometrium</i> , pp. 1226-1229. Neofytou, Marios Pattichis, Constantinos Pattichis, Marios Schizas, Christos Kyriacou, Efthymoulos Tanos, Vasilios	ThDPo05.2 Univ. of Cyprus Univ. of Cyprus Univ. of New Mexico, Univ. of Cyprus Univ. of Cyprus Temp
<b>ThDPo04</b> <b>Morphological Measurements and Analysis (Poster Session)</b>	Exhibit Hall C	15:30-17:00 <i>Color Image Processing and Content-Based Image Retrieval Techniques for the Analysis of Dermatological Lesions</i> , pp. 1230-1233. Dorileo, Éderson Antônio Gomes Frade, Marco Andrey Cipriani	ThDPo05.3 Univ. of São Paulo Faculty of Medicine of Ribeirão Preto - Univ. of São Paulo Univ. of São Paulo Univ. of Calgary Univ. of São Paulo
15:30-17:00 <i>A Method for Semiautomatic Tracing and Morphological Measuring of Neurite Outgrowth from DIC Sequences</i> , pp. 1196-1199. Fanti, Zian  De-Miguel, Francisco F Martinez-Perez, M. Elena	ThDPo04.1 Inst. of Res. in Applied Mathematics and Systems, UNAM UNAM Inst. of Res. in Applied Mathematics and Systems, UNAM	Roselino, Ana Maria Rangayyan, Raj Azevedo-Marques, Paulo Mazzoncini	Univ. of São Paulo Univ. of São Paulo Univ. of São Paulo
15:30-17:00 <i>A Study of Shape Distributions for Estimating Histologic Grade</i> , pp. 1200-1205. Zhang, Jasper Petushi, Sokol Regli, William Garcia, Fernando Breen, David Edward	ThDPo04.2 Drexel Univ. Drexel U. Coll. of Medicine / Confero Solutions Drexel Univ. Drexel U. Coll. of Medicine Drexel Univ.	15:30-17:00 <i>Development of Blood Vessel Viewer Using Multi Spectral Imaging Technology</i> , pp. 1234-1237. Nagaoka, Takashi Nakamura, Atsushi Aizawa, Katsuo Shinya, Otsubo Mochizuki, Toru Kiyohara, Yoshiro Sota, Takayuki	ThDPo05.4 Shizuoka Cancer Center Waseda Univ. Waseda Univ. Waseda Univ. Shizuoka Cancer Center Shizuoka Cancer Center Hospital Science & Engineering, Waseda Univ.
15:30-17:00 <i>Image Processing System for Ultrasound Images of the Eye</i> , pp. 1206-1209. Lepine-Shaw, Michael Hannoon, Hassan Youmaran, Richard Adler, Andy	ThDPo04.3 Carleton Univ. Carleton Univ. Univ. of Ottawa Carleton Univ.	15:30-17:00 <i>Hyperspectral Imaging and Diagnosis of Intestinal Ischemia</i> , pp. 1238-1241. Akbari, Hamed Kosugi, Yukio Kojima, Kazuyuki Tanaka, Naofumi	ThDPo05.5 Tokyo Inst. of Tech. Tokyo Inst. of Tech. Tokyo Medical and Dental Univ. Tokyo Medical and Dental Univ.
15:30-17:00 <i>Web Based Brain Volume Calculation for Magnetic Resonance Images</i> , pp. 1210-1213. Karsch, Kevin Grinstead, Brian He, Qing Duan, Ye	ThDPo04.4 Univ. of Missouri Univ. of Missouri Columbia Univ. of Missouri-Columbia Univ. of Missouri at Columbia	15:30-17:00 <i>Classification of Endoscopic Capsule Images by Using Color Wavelet Features, Higher Order Statistics and Radial Basis Functions</i> , pp. 1242-1245. Lima, Carlos Manuel Gregorio Santos Barbosa, Daniel Ramos, Jaime Tavares, Adriano Monteiro, Luis Carvalho, Luis	ThDPo05.6 Univ. of Minho Univ. of Minho Hospital dos Capuchos Univ. of Minho Univ. of Minho Univ. of Minho
15:30-17:00 <i>Automatic Segmentation of Intracranial Hematoma and Volume Measurement</i> , pp. 1214-1217. Liu, Boqiang Yuan, Qingwei Liu, Zhongguo Li, Xiaomei Yin, Xiaohong	ThDPo04.5 Shandong Univ. Shandong Univ. Shandong Univ. Shandong Univ. Shandong Univ.	<b>ThDPo06</b> <b>Wireless/Ubiquitous Medical Devices (Poster Session)</b>	Exhibit Hall C
		15:30-17:00 <i>DC Information Preservation for Cardiopulmonary Monitor Utilizing CW Doppler Radar</i> , pp. 1246-1249. Vergara, Alexander Boric-Lubecke, Olga Lubecke, Victor	ThDPo06.1 Univ. of Hawaii at Manoa Univ. of Hawaii Manoa Univ. of Hawaii Manoa



15:30-17:00	ThDPo06.2		
<i>Radiation Characteristics of Ingested Wireless Device at Frequencies from 430 MHz to 3 GHz</i> , pp. 1250-1253.			
Xu, Lisheng	School of Control Science and Engineering, Shandong		
Meng, Max Q.-H.	The Chinese Univ. of Hong Kong		
Ren, HongLiang	The Chinese Univ. of Hong Kong		
Chan, Yawen	Chinese Univ. of Hong Kong		
15:30-17:00	ThDPo06.3		
<i>Implementation of a Telemetry System for Neurophysiological Signals</i> , pp. 1254-1257.			
Thorbergsson, Palmi Thor	Lund Univ.		
Garwicz, Martin	Lund Univ.		
Schouenborg, Jens	Lund Univ.		
Johansson, Anders	Lund Univ.		
15:30-17:00	ThDPo06.4		
<i>Microwave Non-Invasive Sensing of Respiratory Tidal Volume*</i> .			
Massagram, Wansuree	Univ. of Hawaii		
Boric-Lubecke, Olga	Univ. of Hawaii Manoa		
15:30-17:00	ThDPo06.5		
<i>Application for the Wearable Heart Activity Monitoring System : Analysis of the Autonomic Function of HRV</i> , pp. 1258-1261.			
Yang, Heui-Kyung	CheongJu Univ.		
Lee, Jeong-Whan	Konkuk Univ.		
Lee, Kang-Hwi	Konkuk Univ.		
Lee, Young-Jae	konkuk Univ.		
Kim, Kyeong-Seop	Konkuk Univ.		
Choi, Hee-Jung	konkuk Univ.		
Kim, Dong-Jun	Cheongju Univ.		
15:30-17:00	ThDPo06.6		
<i>Detection of Baseline and Near-Fall Postural Stability</i> , pp. 1262-1265.			
Sipp, Amy R	Wright State Univ.		
Rowley, Blair A	Wright State Univ.		
<b>ThDPo07</b>		Exhibit Hall C	
<b>Wearable and Portable Communicative Systems (Poster Session)</b>			
15:30-17:00	ThDPo07.1		
<i>Second Generation Complementary and Alternative Medicine Physiologic Data Collection and Monitoring Research Platform</i> , pp. 1270-1273.			
Ellingson, Roger M.	Department of Veterans Affairs		
Eriksen, K Jeffrey	Bioelectromagnetic Tech. LLC		
Schaller, James J.	Virtual Extrusion, Inc.		
Zajdel, Daniel	Oregon Health & Science Univ.		
Kudura, Aisha G.	Oregon Health & Science Univ.		
Oken, Barry	Oregon Health & Science Univ.		
15:30-17:00	ThDPo07.1		
<i>Performance Evaluation of a Wireless Body Area Sensor Network for Remote Patient Monitoring</i> , pp. 1266-1269.			
Khan, Jamil Y.	Univ. of Newcastle		
Yuce, Mehmet Rasit	Univ. of Newcastle		
15:30-17:00	ThDPo07.2		
<i>Simulated Fall Detection Via Accelerometers</i> , pp. 1274-1277.			
Boyle, Justin	CSIRO ICT Centre		
Karunanithi, Mohan	CSIRO ICT Centre		
15:30-17:00	ThDPo07.3		
<i>Getting Rid of the Wires and Connectors in Physiological Monitoring</i> , pp. 1278-1282.			
Chételat, Olivier	CSEM		
Gentsch, Roland	CSEM SA		
Krauss, Jens	CSEM		
Luprano, Jean	CSEM - Centre Suisse d'Electronique et de Microtechnique		
15:30-17:00	ThDPo07.4		
<i>Wireless On-Body-Network Breathing Rate and Depth Measurement During Activity</i> , pp. 1283-1287.			
Khoo Chen Tsien, Joshua	Monash Univ.		
Brown, Ian	Monash Univ.		
Lim, Yoong	Monash Univ.		
15:30-17:00	ThDPo07.5		
<i>Evaluation of a Tactile Display Around the Waist for Physiological Monitoring under Different Clinical Workload Conditions</i> , pp. 1288-1291.			
Ng, Ginna	Univ. of British Columbia		
Barralon, Pierre	Univ. of British Columbia		
Schwarz, Stephan K. W.	The Univ. of British Columbia		
Dumont, Guy	Univ. of British Columbia		
Ansermino, J. Mark	British Columbia's Children's Hospital		
15:30-17:00	ThDPo07.6		
<i>Pervasive Technology in Neonatal Intensive Care Unit: A Prototype for Newborns Unobtrusive Monitoring</i> , pp. 1292-1295.			
Ciani, Oriana	Pol. di Milano		
Piccini, Luca	Pol. di Milano		
Parini, Sergio	Pol. di Milano		
Rullo, Alessia	Univ. of Siena		
Bagnoli, Franco	Le SCotte Hospital		
Marti, Patrizia	Univ. of Siena		
Andreoni, Giuseppe	Pol. di Milano		
15:30-17:00	ThDPo07.7		
<i>Quality of Service Support in Wireless Sensor Networks for Emergency Healthcare Services</i> , pp. 1296-1299.			
Mendes, Paulo M.	Univ. of Minho		
Gama, Oscar	U Minho		
Carvalho, Paulo	Univ. of Minho		
Afonso, José	Univ. of Minho		
15:30-17:00	ThDPo07.8		
<i>Comparison of Conductive Fabric Sensor and Ag-AgCl Sensor under Motion Artifacts</i> , pp. 1300-1303.			
Lee, InBum	ETRI		
Shin, Seungchul	ETRI		
Jang, Yongwon	Electronics & Telecom Res. Inst.		
Song, Yoonseon	Electronics & Telecom Res. Inst.		
Jeong, Ji-Wook	ETRI		
Kim, Seunghwan	Electronics & Telecom Res. Inst.		
15:30-17:00	ThDPo07.9		
<i>A Novel Design and Evaluation of the Wearable Digital Sensor for Monitoring Posture</i> , pp. 1304-1307.			
Yang, Chang-Ming	Ming Yang Biomedical Corp.		
Yang, Tzu-lin	Ming Young Biomedical Corp.		
Huang, Wen-Tzeng	National Taipei Univ. of Tech.		
Chen, Chin-Hsing	Central Taiwan Univ. of Science and Tech.		
Cheng, Mu-Huo	National Chiao Tung Univ.		
Hung, Shu-Hui	National Cheng-Kung Univ.		
Cheng, Chih-Ming	Yuan Ze Univ.		
15:30-17:00	ThDPo07.10		
<i>A Hydrostatic Calibration Method for the Design of Wearable PAT-Based Blood Pressure Monitoring Devices</i> , pp. 1308-1310.			
Liu, Yinbo	The Chinese Univ. of Hong Kong		
Poon, Carmen CY	The Chinese Univ. of Hong Kong		
Zhang, Yuan-Ting	The Chinese Univ. of Hong Kong		
15:30-17:00	ThDPo07.11		
<i>Detection of Nocturnal Hypoglycemic Episodes (Natural Occurrence) in Children with Type 1 Diabetes Using an Optimal Bayesian Neural Network Algorithm</i> , pp. 1311-1314.			
Nguyen, Hung T.	Univ. of Tech. Sydney		
Ghevondian, Nejhddeh	AIMedics Pty Ltd		
Jones, Timothy	Princess Margaret Hospital for Children		
15:30-17:00	ThDPo07.12		
<i>ECG Monitoring of a Car Driver Using Capacitively-Coupled Electrodes</i> , pp. 1315-1318.			
Toshiyuki, Matsuda	Ritsumeikan Univ.		
Makikawa, Masaaki	Ritsumeikan Univ.		

15:30-17:00	ThDPo07.13			15:30-17:00	ThDPo08.8
<i>A Performance Comparison of Accelerometry-Based Step Detection Algorithms on a Large, Non-Laboratory Sample of Healthy and Mobility-Impaired Persons</i> , pp. 1319-1322.				<i>Discrimination of Single and Multiple Human Transmembrane Proteins Using Kurtosis and Morphological Analysis</i> , pp. 1351-1354.	
Marschollek, Michael	Univ. of Braunschweig - Inst. of Tech.		Kitsas, Ilias	Aristotle Univ. of Thessaloniki	
Goevercin, Mehmet	Humboldt Univ.		Hadjileontiadis, Leontios	Aristotle Univ. of Thessaloniki	
Wolf, Klaus-Hendrik	Univ. of Braunschweig - Inst. of Tech.		Panas, Stavros	Aristotle Univ. of Thessaloniki	
Song, Bianying	Univ. of Braunschweig - Inst. of Tech.		15:30-17:00	ThDPo08.9	
Gietzelt, Matthias	Univ. of Braunschweig - Inst. of Tech.		<i>A Two-Stage Neural Network Based Technique for Protein Secondary Structure Prediction</i> , pp. 1355-1358.		
Haux, Reinhold	Univ. of Braunschweig - Inst. of Tech.		Kakumani, Rajasekhar	Concordia Univ.	
Steinhagen-Thiessen, Elisabeth	Humboldt Univ.		Devabhaktuni, Vijay	Concordia Univ.	
			Ahmad, Omair	Concordia Univ.	
			15:30-17:00	ThDPo08.10	
			<i>A Real Valued Genetic Algorithm for Generating Native Like Structure of Small Globular Protein</i> , pp. 1359-1362.		

**ThDPo08** Exhibit Hall C  
**Novel Technologies and Tools for Bioinformatics (Poster Session)**

15:30-17:00	ThDPo08.1		
<i>A New Visual Feed-Back Modality for the Reduction of Artifacts in Mu-Rhythm Based Brain-Computer Interfaces</i> , pp. 1323-1326.			
Bianchi, Luigi	Univ. of Rome		
Pronestè, Danilo	Univ. of Rome "Tor Vergata"		
Abbafati, Manuel	Univ. of Rome		
Quitadamo, Lucia Rita	Univ. of Rome		
Marciani, Maria Grazia	Tor Vergata Univ.		
Saggio, Giovanni	Univ. of Rome		
15:30-17:00	ThDPo08.2		
<i>Cuffless and Non-Invasive Systolic Blood Pressure Estimation for Aged Class by Using a Photoplethysmograph</i> , pp. 1327-1330.			
Suzuki, Satomi	Aichi Prefectural Univ.		
Oguri, Koji	Aichi Prefectural Univ.		
15:30-17:00	ThDPo08.3		
<i>Modeling of Electromagnetic Environment of Transmission Lines for Studying Effect of ELF-EMF</i> , pp. 1331-1334.			
Geng, Duyan	Hebei Univ. of Tech.		
Xu, Guizhi	Hebei Univ. of Tech.		
Yu, Hongli	Hebei Univ. of Tech.		
Yang, Shuo	Hebei Univ. of Tech.		
Yang, Qingxin	Hebei Univ. of Tech.		
Yan, Weili	Hebei Univ. of Tech.		
15:30-17:00	ThDPo08.4		
<i>Two-Way ANOVA to Identify Impacts of Multiple Interactive Behavioral Factors on the Neuronal Population Dependency During the Reaching Motion</i> , pp. 1335-1338.			
Zhang, Hang	Arizona State Univ.		
Ye, Nong	Arizona State Univ.		
He, Jiping	Arizona State Univ.		
Roontiva, Auttawut	Arizona State Univ.		
Aguayo, Jose	Arizona State Univ.		
15:30-17:00	ThDPo08.5		
<i>Robust Spots Finding in Microarray Images with Distortions</i> , pp. 1339-1342.			
Figuerola, Andres	Univ. of Texas-Pan American		
Tsai, Ping-Sing	Univ. of Texas-Pan American		
Bent, Elizabeth	Univ. of California Riverside		
Guo, Rongkai	Univ. of Texas-Pan American		
15:30-17:00	ThDPo08.6		
<i>A Massively Parallel Implementation of Gillespie Algorithm on FPGAs</i> , pp. 1343-1346.			
Macchiarulo, Luca	Univ. of Hawaii at Manoa		
15:30-17:00	ThDPo08.7		
<i>Detecting Remote Homologues Using Scoring Matrices Calculated from the Estimation of Amino Acid Substitution Rates of Beta-Barrel Membrane Proteins</i> , pp. 1347-1350.			
Jimenez-Morales, David	Univ. of Illinois at Chicago		
Adamian, Larisa	Univ. of Illinois at Chicago		
Liang, Jie	Univ. of Illinois at Chicago		

Mitra, Madhu	International Inst. of Information Tech. (IIIT-H),Gachi
Mitra, Abhijit	International Inst. of Information Tech. Hyderabad
Harjinder Singh, Harjinder Singh	International Inst. of Information Tech. Hyderabad, In
Karlapalem, Kamalakar	IIIT
15:30-17:00	ThDPo08.11
<i>A UML Model for the Description of Different Brain Computer Interface Systems</i> , pp. 1363-1366.	
Quitadamo, Lucia Rita	Univ. of Rome
Abbafati, Manuel	Univ. of Rome
Saggio, Giovanni	Univ. of Rome
Marciani, Maria Grazia	Tor Vergata Univ.
Cardarilli, Gian Carlo	Univ. of Rome "Tor Vergata"
Bianchi, Luigi	Univ. of Rome
15:30-17:00	ThDPo08.12
<i>An Efficient Algorithm for Local Sequence Alignment</i> , pp. 1367-1372.	
Haque, Waqar	Univ. of Northern British Columbia
Aravind, Alex	Univ. of Northern British Columbia
Reddy, Bharath	UNBC

**ThDPo09** Exhibit Hall C  
**Ventricular, Vascular and Valve Mechanics (Poster Session)**

15:30-17:00	ThDPo09.1		
<i>The Impact of Wall Shear Stress and Pressure Drop on the Stability of the Atherosclerotic Plaque</i> , pp. 1373-1376.			
Li, Zhi-Yong	Univ. of Cambridge		
Taviani, Valentina	Univ. of Cambridge		
Gillard, Jonathan H.	Univ. of Cambridge		
15:30-17:00	ThDPo09.2		
<i>In Vivo Velocity and Flow Errors Quantification by Phase Contrast Magnetic Resonance Imaging</i> , pp. 1377-1380.			
Garcia, Julio	Laval Univ.		
Kadem, Lyes	Concordia Univ.		
Larose, Eric	Laval Univ.		
Pibarot, Philippe	Laval Univ.		
15:30-17:00	ThDPo09.3		
<i>Reservoir-Wave Separation and Wave Intensity Analysis Applied to Carotid Arteries: A Hybrid 1D Model to Understand Haemodynamics</i> , pp. 1381-1384.			
Aguado-Sierra, Jazmin	Univ. of California, San Diego		
Davies, Justin E.	St. Mary's Hospital, Imperial Coll. London		
Hadjiloizou, Nearchos	St. Mary's Hospital, Imperial Coll. London		
Francis, Darrel	St. Mary's Hospital, Imperial Coll. London		
Mayet, Jamil	St. Mary's Hospital, Imperial Coll. London		
Hughes, Alun D.	St. Mary's Hospital, Imperial Coll. London		
Parker, Kim H.	Imperial Coll. London		
15:30-17:00	ThDPo09.4		
<i>Estimation of the Aortic Pressure Waveform from a Peripheral Artery Pressure Waveform Via an Adaptive Transfer Function</i> , pp. 1385-1388.			
Swamy, Gokul	Michigan State Univ.		
Olivier, Bari	Michigan State Univ.		
Mukkamala, Ramakrishna	Michigan State Univ.		

15:30-17:00	ThDPo09.5	15:30-17:00	ThDPo09.15
<i>Physiological Role of Nitric Oxide in Oxygen Consumption by Arteriolar Wall</i> , pp. 1389-1392.		<i>Continuous Monitoring of Coordinated Cardiovascular Responses</i> , pp. 1423-1426.	
Shibata, Masahiro	Shibaura Inst. of Tech.	Sola, Josep	Swiss Center for Electr & Micro
Yamakoshi, Takehiro	Kanazawa Univ.	Chételat, Olivier	CSEM
Yamakoshi, Ken-ichi	Kanazawa Univ.	Luprano, Jean	CSEM - Centre Suisse d'Electronique et de Microtechnique
15:30-17:00	ThDPo09.6	15:30-17:00	ThDPo09.16
<i>Myocardial Reperfusion Improves Diastolic Isovolumic Relaxation in Human Hearts with AMI Long-Term after Thrombolysis*</i> .		<i>Wireless Blood Velocity Spectra Measurement System for Healthcare Evaluation: Reference Data</i> , pp. 1427-1430.	
Chang, Steven	I-Shou Univ.	Azhim, Azran	Tokyo Denki Univ.
Wang, Jia-Jung	I-Shou Univ.	Akutagawa, Masatake	The Univ. of Tokushima
Liu, Chun-Peng	Kaohsiung Veterans General Hospital	Yoshizaki, Kazuo	The Univ. of Tokushima
Hu, Wei-Chih	Chung Yuan Christian Univ.	Obara, Shigeru	Univ. of Tokushima
15:30-17:00	ThDPo09.7	15:30-17:00	ThDPo09.16
<i>Trileaflet Valve Hydrodynamic Resistance Assessment</i> , pp. 1393-1396.		<i>Wireless Blood Velocity Spectra Measurement System for Healthcare Evaluation: Reference Data</i> , pp. 1427-1430.	
Garcia, Julio	Laval Univ.	Nomura, Masaharu	The Univ. of Tokushima
Sacristan, Emilio	Univ. Autónoma Metropolitana	Tanaka, Hiroyuki	Naruto Univ. of Education
15:30-17:00	ThDPo09.8	15:30-17:00	ThDPo09.16
<i>Aortic Impedance in Little Mice</i> , pp. 1397-1398.		<i>Wireless Blood Velocity Spectra Measurement System for Healthcare Evaluation: Reference Data</i> , pp. 1427-1430.	
Reddy, Anilkumar K.	Baylor Coll. of Medicine	Azhim, Azran	Tokyo Denki Univ.
Taffet, George E.	Baylor Coll. of Medicine	Akutagawa, Masatake	The Univ. of Tokushima
Hartley, Craig J.	Baylor Coll. of Medicine	Yoshizaki, Kazuo	The Univ. of Tokushima
15:30-17:00	ThDPo09.9	15:30-17:00	ThDPo09.16
<i>Investigation of Mouse Conductance Catheter Position Deviation Effects on Volume Measurements by Finite Element Models</i> , pp. 1399-1402.		<i>Wireless Blood Velocity Spectra Measurement System for Healthcare Evaluation: Reference Data</i> , pp. 1427-1430.	
Wei, Chia-Ling	National Cheng Kung Univ.	Nomura, Masaharu	The Univ. of Tokushima
Wu, Po-Yi	National Cheng Kung Univ.	Tanaka, Hiroyuki	Naruto Univ. of Education
15:30-17:00	ThDPo09.10	15:30-17:00	ThDPo09.16
<i>Measurement of Stenotic Carotid Arterial Compliance with MRI</i> , pp. 1403-1406.		<i>Wireless Blood Velocity Spectra Measurement System for Healthcare Evaluation: Reference Data</i> , pp. 1427-1430.	
Li, Zhi-Yong	Univ. of Cambridge	Azhim, Azran	Tokyo Denki Univ.
Howarth, Simon	Univ. of Cambridge	Akutagawa, Masatake	The Univ. of Tokushima
Gaves, Martin	Addenbrooke's Hospital	Yoshizaki, Kazuo	The Univ. of Tokushima
Gillard, Jonathan H.	Univ. of Cambridge	Obara, Shigeru	Univ. of Tokushima
15:30-17:00	ThDPo09.11	15:30-17:00	ThDPo09.16
<i>A Nonlinear Lumped Parameters Model to Analyze the Dynamics of Venous Reflux</i> , pp. 1407-1410.		<i>Wireless Blood Velocity Spectra Measurement System for Healthcare Evaluation: Reference Data</i> , pp. 1427-1430.	
Fragomeni, Gionata	Magna Graecia Univ. of Catanzaro	Nomura, Masaharu	The Univ. of Tokushima
Merola, Alessio	Univ. degli Studi Magna Graecia di Catanzaro	Tanaka, Hiroyuki	Naruto Univ. of Education
Serra, Raffaele	Univ. Magna Graecia di Catanzaro	Kinouchi, Yohsuke	The Univ. of Tokushima
de Franciscis, Stefano	Magna Graecia Univ. of Catanzaro		
Amato, Francesco	Univ. degli Studi Magna Graecia di Catanzaro		
15:30-17:00	ThDPo09.12	<b>ThDPo10</b>	Exhibit Hall C
<i>A Haemodynamic Study of the Physiological Mechanisms of the Venous Pump in the Healthy Human Foot</i> , pp. 1411-1414.		<b>Biosignals in Telehealth Posters (Poster Session)</b>	
Broderick, Barry	National Univ. of Ireland, Galway	15:30-17:00	ThDPo10.1
Corley, Gavin	National Univ. of Ireland Galway	<i>Two-Dimensional Location and Direction Estimating Method</i> , pp. 1431-1434.	
Quondamatteo, Fabio	National Univ. of Ireland Galway	Haga, Teruhiro	Tokyo Denki Univ.
Grace, Pierce	Mid Western Regional Hospital	Tsukamoto, Sosuke	Tokyo Denki Univ.
Breen, Paul	National Univ. of Ireland Galway	Hoshino, Hiroshi	Tokyo Denki Univ.
ÓLaighin, Gearóid	National Univ. of Ireland, Galway	15:30-17:00	ThDPo10.2
15:30-17:00	ThDPo09.13	<i>Wheelchair Type Biomedical System with Event-Recorder Function</i> , pp. 1435-1438.	
<i>Variations in Non-Invasive Radial Artery Pulse Waveform at Different Measuring Positions</i> , pp. 1415-1418.		Han, Dong Kyoong	Chungbuk National Univ. Eulji Univ.
Lee, Jeon	Korean Inst. of Oriental Medicine	Kim, Jong Myoung	Chungbuk National Univ.
Jeon, Youngju	Korean Inst. of Oriental Medicine	Cha, Eun Jong	Chungbuk National Univ.
Lee, Hae-jung	Korea Inst. of Oriental Medicine	Lee, Tae Soo	Chungbuk National Univ.
Kim, Jong Yeol	Korea Inst. of Oriental Medicine	15:30-17:00	ThDPo10.3
15:30-17:00	ThDPo09.14	<i>Detecting Patient's Emergency - a Minimum-Computation Procedure for Pervasive Cardiac Monitoring</i> , pp. 1439-1442.	
<i>Fluid Dynamics Studies of Cardiovascular Medical Devices and Blood Damage Prediction</i> , pp. 1419-1422.		Augustyniak, Piotr	AGH Univ. of Science and Tech.
Grigioni, Mauro	Istituto Superiore di Sanitf	15:30-17:00	ThDPo10.4
D'Avenio, Giuseppe	Istituto Superiore di Sanitf	<i>Distance Correction System for Localization Based on Linear Regression and Smoothing in Ambient Intelligence Display</i> , pp. 1443-1446.	
Morbiducci, Umberto	Pol. di Torino	Kim, Dae Hee	ETRI
Del Gaudio, Costantino	Istituto Superiore di Sanitf	Choi, Jaehun	Electronics and Telecommunications Res. Inst.
Daniele, Carla	Istituto Superiore di Sanitf	Lim, Myungeun	ETRI
		Park, Soo-Jun	Electr & Telecomm Res. Inst.
		15:30-17:00	ThDPo10.5
		<i>A Data Process and Wavelet Analysis Method Used for Monitoring Daily Physiological Attributes</i> , pp. 1447-1450.	
		Yasui, Yoshitsugu	NTT DoCoMo
		Tian, Qian	Waseda Univ.
		Yamauchi, Noriyoshi	Waseda Univ.
		15:30-17:00	ThDPo10.6
		<i>Performance Evaluation of Biosignal Measurement at the Wheelchair System</i> , pp. 1451-1454.	
		Han, Dong Kyoong	Chungbuk National Univ. Eulji Univ.
		Kim, Jong Myoung	Chungbuk National Univ.
		Hong, Joo Hyun	Chungbuk National Univ.
		Cha, Eun Jong	Chungbuk National Univ.
		Lee, Tae Soo	Chungbuk National Univ.

**ThDPo11** Exhibit Hall C  
**RFID in Telehealth (Poster Session)**

15:30-17:00 ThDPo11.1  
*Hospital Automation System RFID-Based: Technology Embedded in Smart Devices (Cards, Tags and Bracelets)*, pp. 1455-1458.  
Florentino, Gustavo H. P. Symetrix Corp. Colorado Springs, Colorado; Dept. of El Symetrix Corp. Colorado Springs, Colorado; Dept. of El  
Paz de Araújo, Carlos Federal Univ. of Rio Grande do Norte  
Bezerra, Heitor U. Federal Univ. of Rio Grande do Norte  
B. de Araújo Junior, Hélio Federal Univ. of Rio Grande do Norte  
Araújo Xavier, Marcelo Federal Univ. of Rio Grande do Norte  
Valentim, Ricardo Alexsandro de Medeiros Federal Univ. of Rio Grande do Norte, ,  
Morais, Antônio H. F. Univ. Federal do Rio Grande do Norte  
Guerreiro, Ana Maria G. Federal Univ. of Rio Grande do Norte  
Brandão, Gláucio Bezerra Federal Univ. of Rio Grande do Norte  
Valerio de Souza, Vinícius Samuel Federal Univ. of Rio Grande do Norte

15:30-17:00 ThDPo11.2  
*Design of RFID Based the Patient Management and Tracking System in Hospital*, pp. 1459-1461.  
Kim, Do-Sung The Brain Korea 21 Project for Medical Science, Yonsei Univ. Graduate School of Biomedical Engineering Coll. of Medicine, Yonsei Univ. Department of Medical Engineering  
Kim, Jungchae  
Kim, Seung-Ho  
Yoo, Sun K.

15:30-17:00 ThDPo11.3  
*Patients Tracking and Identifying Inside Hospital: A Multilayer Method to Plan an RFID Solution*, pp. 1462-1465.  
Iadanza, Ernesto Univ. degli Studi di Firenze  
Dori, Fabrizio Univ. di Firenze  
Miniati, Roberto Univ. di Firenze  
Bonaiuti, Roberto Univ. degli Studi di Firenze

**ThDPo12** Exhibit Hall C  
**Electronic Health Records (Poster Session)**

15:30-17:00 ThDPo12.1  
*Semantic Upgrade and Normalization of Existing EHR Extracts*, pp. 1466-1469.  
Maldonado, José Alberto Pol. Univ. of Valencia  
Moner, David Tech. Univ. of Valencia  
Bosca, Diego Tech. Univ. of Valencia  
Fernández-Breis, Jesualdo Tomás Univ. de Murcia  
Angulo, Carlos Tech. Univ. of Valencia  
Robles, Montserrat Tech. Univ. of Valencia

15:30-17:00 ThDPo12.2  
*Standardization of Discharge Reports with the ISO 13606 Norm*, pp. 1470-1473.  
Moner, David Tech. Univ. of Valencia  
Maldonado, José Alberto Pol. Univ. of Valencia  
Angulo, Carlos Tech. Univ. of Valencia  
Bosca, Diego Tech. Univ. of Valencia  
Pérez, Daniel Univ. General Hospital of Valencia  
Abad, Irene Univ. General Hospital of Valencia  
Reig, Ernesto Univ.  
Robles, Montserrat Tech. Univ. of Valencia

15:30-17:00 ThDPo12.3  
*An Information Retrieval System for Medical Records & Documents*, pp. 1474-1477.  
Chou, Shihchieh National Central Univ.  
Chang, Weiping Central Pol. Univ.  
Cheng, Chin-Yi National Central Univ.  
Jehng, Jih-Chang National Central Univ.

15:30-17:00 ThDPo12.4  
*On the Diversity of Ehealth Security Systems and Mechanisms*, pp. 1478-1481.

Adibi, Sasan Univ. of Waterloo  
Agnew, Gordon B. Univ. of Waterloo

15:30-17:00 ThDPo12.5  
*A Semantic Web-Based System for Managing Clinical Archetypes*, pp. 1482-1485.

Fernández-Breis, Jesualdo Tomás Univ. de Murcia  
Menárguez-Tortosa, Marcos Univ. de Murcia  
Martinez-Costa, Catalina Facultad de Informática, Univ. de Murcia

Fernandez Breis, Eneko Univ. of Murcia  
Herrero, Jose Univ. of Murcia  
Sánchez Cuadrado, Jesús Univ. of Murcia  
Moner, David Pol. Univ. of Valencia  
Valencia-García, Rafael -  
Robles, Montserrat Tech. Univ. of Valencia

**ThDPo13** Exhibit Hall C  
**Health Information Systems Standards Posters (Poster Session)**

15:30-17:00 ThDPo13.1  
*A Method for Physiological Data Transmission and Archiving to Support the Service of Critical Care Using DICOM and HL7*, pp. 1486-1489.

Eklund, J. Mikael Univ. of Ontario Inst. of Tech.  
McGregor, Carolyn Univ. of Ontario Inst. of Tech.  
Smith, Kathleen P. Univ. of Ontario Inst. of Tech.

15:30-17:00 ThDPo13.2  
*Medical Image Distribution and Visualization in a Hospital Using CORBA*, pp. 1490-1493.

Moreno, Ramon Alfredo Heart Inst. (InCor), Univ. of Sao Paulo Medical School  
Santos, Marcelo dos Heart Inst. (inCor), Univ. of Sao Paulo Medical School  
Bertozzo, Nivaldo Heart Inst. Univ. of Sao Paulo Medical School  
Rebello, Marina de Fátima de Sá Heart Inst. Univ. of Sao Paulo Medical School  
Furuie, Sergio Heart Inst. Univ. of Sao Paulo Medical School  
Gutierrez, Marco Heart Inst. Univ. of Sao Paulo Medical School

15:30-17:00 ThDPo13.3  
*An Ontology-Based Telemedicine Tasks Management System Architecture*, pp. 1494-1497.

Nageba, Ebrahim INSA de Lyon  
Fayn, Jocelyne INSERM  
Rubel, Paul INSA de Lyon ; Univ. de Lyon

15:30-17:00 ThDPo13.4  
*MP-HA: Multicycles Protocol for Hospital Automation Over Multicast Addressing*, pp. 1498-1501.

Valentim, Ricardo Alexsandro de Medeiros Federal Univ. of Rio Grande do Norte, ,  
Morais, Antônio H. F. Univ. Federal do Rio Grande do Norte

Brandão, Gláucio Bezerra Federal Univ. of Rio Grande do Norte

Guerreiro, Ana Maria G. Federal Univ. of Rio Grande do Norte

Araújo Xavier, Marcelo Federal Univ. of Rio Grande do Norte

Florentino, Gustavo H. P. Symetrix Corp. Colorado Springs, Colorado; Department of El

Paz de Araújo, Carlos Symetrix Corp. Colorado Springs, Colorado; Department of El

Bezerra, Heitor U. Federal Univ. of Rio Grande do Norte

B. de Araújo Junior, Hélio Federal Univ. of Rio Grande do Norte

15:30-17:00	ThDPo13.5	15:30-17:00	ThDPo14.3
<i>Multi-Dimensional Knowledge Translation: Enabling Health Informatics Capacity Audits Using Patient Journey Models</i> , pp. 1502-1505.		<i>Energy Efficient Simulator for Patient Monitoring in Body Sensor Networks</i> , pp. 1537-1540.	
Catley, Christina	Univ. of Ontario Inst. of Tech.	Sene Jr, Iwens G.	Catholic Univ. of Goiás
McGregor, Carolyn	Univ. of Ontario Inst. of Tech.	da Rocha, Adson F.	Univ. of Brasília
Percival, Jennifer	Univ. of Ontario Inst. of Tech.	Barbosa, Talles	Catholic Univ. of Goiás
Curry, Joanne Marie	Univ. of Western Sydney	Nascimento, Francisco A. de O.	Univ. of Brasília
James, Andrew	Univ. of Toronto	Carvalho, Hervaldo Sampaio	Univ. of Brasília
15:30-17:00	ThDPo13.6	15:30-17:00	ThDPo14.4
<i>A Structured Approach to Requirements Gathering Creation Using PaJMa Models</i> , pp. 1506-1509.		<i>An Energy-Efficient Communication Method Based on the Relationships between Biological Signals for Ubiquitous Health Monitoring</i> , pp. 1541-1544.	
McGregor, Carolyn	Univ. of Ontario Inst. of Tech.	Lee, Songjun	Hanyang Univ.
Percival, Jennifer	Univ. of Ontario Inst. of Tech.	Kwon, Hyok Chon	Hanyang Univ.
Curry, Joanne Marie	Univ. of Western Sydney	Ko, Byung-geun	Hanyang Univ.
Foster, Donna	Whitby Mental Health Centre	Na, DooSu	Hanyang Univ.
Anstey, Erin	Whitby Mental Health Centre		
Churchill, Debra	Whitby Mental Health Centre		
15:30-17:00	ThDPo13.7	15:30-17:00	ThDPo14.5
<i>Reference Implementation Model for Medical Information Systems' Interoperability</i> , pp. 1510-1513.		<i>The Development of the Friction Coefficient Inspection Equipment for Skin Using Load Cell</i> , pp. 1545-1548.	
Kolovou, Lamprini	Univ. of Patras	Song, Han Wook	Korea Res. Inst. of Standards and Science
Karavatselou, Evy	Univ. of Patras	Park, Yon Kyu	KRISS
Lymberopoulos, Dimitrios	Univ. of Patras	Lee, SungJun	KRISS
		Woo, Sam Yong	KRISS
15:30-17:00	ThDPo13.8	Kim, Sun Hyung	East-West Medical Center
<i>Networking and Plug-And-Play of Bedside Medical Instruments</i> , pp. 1514-1517.		Kim, Dal Rae	East-West Medical Center
Thongpithoonrat, Pongnarin	Univ. of Houston		
Gumudavelli, Suman	Univ. of Houston	15:30-17:00	ThDPo14.6
Gurkan, Deniz	Univ. of Houston	<i>Channel Models for Wireless Body Area Networks</i> , pp. 1549-1552.	
Chapman, Frank	Ashford Tech. Software, Inc.	Takizawa, Kenichi	NICT
15:30-17:00	ThDPo13.9	15:30-17:00	ThDPo14.7
<i>Standardization Work on Personalized Ehealth Systems</i> , pp. 1518-1520.		<i>A Novel Network Module for Medical Devices</i> , pp. 1553-1556.	
Hine, Nick	Univ. of Dundee	Chen, Ping-Yu	Industrial Tech. Res. Inst.
Pluke, Michael	Castle Consulting Ltd.		
Petersen, Françoise	Apica	15:30-17:00	ThDPo14.8
Sund, Torbjörn	Telenor	<i>U-Healthcare System Using Smart Headband</i> , pp. 1557-1560.	
15:30-17:00	ThDPo13.10	Kim, Sang Hyun	Korea Univ. of Science and Tech.
<i>Personalized Healthcare Comment Service for Hypertension Patients Using Mobile Device</i> , pp. 1521-1524.		Ryoo, Dong Wan	ETRI
Shim, Hun	Yonsei Univ.	Bae, Chang Seek	ETRI
Kim, HyoMin	Yonsei Univ.		
Song, Sangha	Yonsei Univ.	15:30-17:00	ThDPo14.9
Lee, Junghoon	Yonsei Univ.	<i>Real-Time Ambulance Location Monitoring Using GPS and Maps Open API</i> , pp. 1561-1563.	
Lee, Joohwan	Yonsei Univ.	Kim, Doyoon	Univ. of Yonsei, Seoul, Korea
Yoon, Hyungro	Yonsei Univ.	Kim, Jungchae	Graduate School of Biomedical Engineering
Yoon, Young-ro	Yonsei Univ.	Kim, DongKeun	Univ. of Yonsei, Seoul, Korea
15:30-17:00	ThDPo13.11	Choa, Minhong	Univ. of Yonsei, Seoul, Korea
<i>Trust Evaluation in Health Information on the World Wide Web</i> , pp. 1525-1528.		Yoo, Sun K.	Department of Medical Engineering
Moturu, Sai Thejasvee	Arizona State Univ.		
Liu, Huan	Arizona State Univ.	<b>ThDPo15</b>	<b>Exhibit Hall C</b>
Johnson, William	Arizona State Univ.	<b>Education, Industry and Society</b> (Poster Session)	
<b>ThDPo14</b>	<b>Exhibit Hall C</b>	15:30-17:00	ThDPo15.1
<b>Wireless and Body Sensor Networks</b> (Poster Session)		<i>Career Development in Bioengineering/Biomedical Engineering: A Student's Roadmap</i> , pp. 1564-1567.	
15:30-17:00	ThDPo14.1	Abu-Faraj, Ziad	American Univ. of Science & Tech.
<i>A Wireless Sensor Network Compatible Wearable U-Healthcare Monitoring System Using Integrated ECG, Accelerometer and SpO<sub>2</sub></i> , pp. 1529-1532.		15:30-17:00	ThDPo15.2
Chung, Wan-Young	Dongseo	<i>Design of Experiments in Biomedical Signal Processing Course</i> , pp. 1568-1570.	
Lee, Young-Dong	Dongseo Univ.	Li, Ling	Univ. of Electronics Sci & Tech.
Jung, Sang-Joong	Dongseo Univ.	Li, Bin	Univ. of electronics science and Tech. of China
15:30-17:00	ThDPo14.2	15:30-17:00	ThDPo15.3
<i>WSN Based Mobile U-Healthcare System with ECG and Blood Pressure Measurement Function</i> , pp. 1533-1536.		<i>Electronics Manufacturing Infrastructures for Education and Commercialization</i> , pp. 1571-1574.	
Chung, Wan-Young	Dongseo	Courtois, Bernard	CMP
Lee, Seung-Chul	Dongseo Univ.	Charlot, Benoit	Univ. Montpellier II
Toh, Sing-Hui	Dongseo Univ.	Di Pendina, Gregory	CMP
		Rufer, Libor	TIMA

15:30-17:00	ThDPo15.4			18:00-18:30	ThET2.3
<i>Computer-Aided Auscultation Learning System for Nursing Technique Instruction</i> , pp. 1575-1578.				<i>Neuroengineering: Building Interfaces from Neurons to Brain (I)</i> , pp. 1602-1603.	
Hou, Chun-Ju	Southern Taiwan Univ.			Thakor, Nitish	Johns Hopkins Univ.
Chen, Yen-Ting	Southern Taiwan Univ.				ThET2.5
Hu, Ling-Chen	Fooyin Univ.			18:00-18:30	
Chuang, Chih-Chieh	Lienchiang County Government			<i>Building a Brain on a Chip (I)</i> , pp. 1604-1606.	
Chiu, Yu-Hsien	Industrial Tech. Res. Inst.			Wheeler, Bruce	Univ. of Illinois
Tsai, Ming-Shih	Department of Health, Executive Yuan				
15:30-17:00	ThDPo15.5			<b>ThET3</b>	Ballroom C
<i>New Market, New Challenge, New Opportunity (1) -Overview of China Rural Healthcare &amp; Design Methodology</i> , pp. 1579-1582.				<b>Nonlinear Analysis (Oral Session)</b>	
Jiang, Jiehui	Delft Univ. of Tech.			17:00-17:15	ThET3.1
Kandachar, Prabhu	Delft Univ. of Tech.			<i>Model-Based Nonlinear Optimal Blood Glucose Control of Type 1 Diabetes Patients</i> , pp. 1607-1610.	
15:30-17:00	ThDPo15.6			Kovacs, Levente	Budapest Univ. of Tech. & Ec.
<i>New Market, New Challenge, New Opportunity (2) -User Context Research</i> , pp. 1583-1586.				Kulcsar, Balazs	Tech. Univ. of Delft
Jiang, Jiehui	Delft Univ. of Tech.			Bokor, Jozsef	Hungarian Sciences Acad.
Kandachar, Prabhu	Delft Univ. of Tech.			Benyo, Zoltan	Budapest Univ. of Tech. & Ec.
15:30-17:00	ThDPo15.7			17:15-17:30	ThET3.2
<i>Service Design Projects Sponsored by the Kansas State University Student Chapter of the IEEE EMBS</i> , pp. 1587-1590.				<i>Novel Polysomnography Derived Features As Biomarkers for Sleep Dynamics</i> , pp. 1611-1614.	
Griffith, Connor	Kansas State Univ.			Jamasebi, Reza	CWRU
Gruber, Lucinda	Kansas State Univ.			Redline, Susan	Rainbow Babies and Childrens Hospital
Young, Ethan	Kansas State Univ.			Loparo, Kenneth	Case Western Res. Univ.
Humphrey, Jason	Kansas State Univ.			17:30-17:45	ThET3.3
Warren, Steve	Kansas State Univ.			<i>Base Lung Sound in Diffuse Interstitial Pneumonia Analyzed by Linear and Nonlinear Techniques</i> , pp. 1615-1618.	
15:30-17:00	ThDPo15.8			Albueme-Sanchez, Lidia	Univ. Autonoma Metropolitana (UAM-740101AR1)
<i>Using Heart Rate Monitors for Personal Wellness – the User Experience Perspective</i> , pp. 1591-1597.				Charleston-Villalobos, Sonia	Univ. Autonoma Metropolitana
Ahtinen, Aino	Nokia Res. Center			Gonzalez-Camarena, Ramon	Univ. Autonoma Metropolitana
Hakkila, Jonna	Nokia Res. Center			Chi-Lem, Georgina	Univ. Autónoma Metropolitana
Mantjarvi, Jani	Nokia Res. Center			Carrillo, Jose Guillermo	National Inst. of Res. Diseases
15:30-17:00	ThDPo15.9			Aljama-Corrales, Tomas	Univ. Autonoma Metropolitana
<i>The Benefits of Industry - University Interaction</i> , pp. 1598-1601.				17:45-18:00	ThET3.4
Fries, Richard	Baxter Healthcare Inc.			<i>Nonlinear Analysis of the ECG During Atrial Fibrillation in Patients for Low Energy Internal Cardioversion</i> , pp. 1619-1622.	
Glave, Sarah	Baxter Healthcare Inc.			Diaz, Jose David	UNEFM
Radick, Marie	Baxter Healthcare Inc.			Carlos, Gonzalez	Simon Bolivar Univ.
				Escalona, Omar Jacinto	Univ. of Ulster
				Glover, Ben	RVH
				Manoharan, Ganesh	Royal Victoria Hospital
<b>ThET1</b>	Ballroom A			18:00-18:15	ThET3.5
<b>EMBS-LEOS Joint Symposium: (Nano)Biophotonics Technologies for Cell Manipulation, Treatment and Stimulation (Minisymposium)</b>				<i>Feature Extraction for Murmur Detection Based on Support Vector Regression of Time-Frequency Representations</i> , pp. 1623-1626.	
Organizer: Li, Xingde	Univ. of Washington			Jaramillo Garzón, Jorge Alberto	Univ. Nacional de Colombia
Organizer: Ilev, Ilko	FDA			Quiceno, Andrés Felipe	Univ. Nacional de Colombia, Sede Manizales
17:00-17:30	ThET1.1			Godino-Llorente, Juan Ignacio	Univ. Pol. de Madrid
<i>Trapping and Manipulation of Biological Particles Using Plasmonic Tweezers (I)*.</i>				Castellanos-Dominguez, Germán	Univ. Nacional de Colombia, sede Manizales
Lin, Lih Yuan	Univ. of Washington			18:15-18:30	ThET3.6
Miao, Xiaoyu	Univ. of Washington			<i>Online Cardiac Arrhythmia Classification by Means of Circle Maps Analysis Implemented on an Intelligent Miniaturized Sensor</i> , pp. 1627-1630.	
Wilson, Ben	Univ. of Washington			Schiek, Michael	Res. Centre Juelich
18:00-18:30	ThET1.3			Schloesser, Mario	Res. Centre Juelich
<i>Thermal Imaging and Treatment by Using Biospecific Magnetic Nanoparticles (I)*.</i>				Schnitzer, Andreas	Res. Centre Juelich
Gannot, Israel	Tel-Aviv Univ.			Ying, Hong	Res. Centre Juelich
Levy, Arie	Tel-Aviv Univ.				
18:00-18:30	ThET1.5			<b>ThET4</b>	Room 11 & 12
<i>Recent Developments in Infrared Nerve Stimulation (I)*.</i>				<b>Sleep Stage Classification (Oral Session)</b>	
Wells, Jonathon	Aculight Corp.			17:00-17:15	ThET4.1
				<i>Adaptive Hybrid System for Automatic Sleep Staging</i> , pp. 1631-1634.	
				Hassaan, Amr	Faculty of Engineering, Cairo Univ.
				Morsy, Ahmed	Cairo Univ.
				17:15-17:30	ThET4.2
				<i>HMM-Based Estimation of Menstrual Cycle from Skin Temperature During Sleep</i> , pp. 1635-1638.	
				Chen, Wenxi	Univ. of Aizu
				Kitazawa, Masumi	QOL Co. Ltd.
				Togawa, Tatsuo	Waseda Univ.

17:30-17:45	ThET4.3	18:15-18:30	ThET5.6
<i>Automatic Sleep Detection Using Activity and Facial Electrodes</i> , pp. 1639-1642.		<i>K-Space and Image Space Combination for Motion Artifact Correction in Multi-Coil, Multi-Shot Diffusion Weighted MRI</i> , pp. 1675-1678.	
Virkkala, Jussi	Finnish Inst. of Occupational Health	Van, Anh	Univ. of Illinois at Urbana-Champaign
Hasan, Joel	Pirkanmaa Hospital District	Karampinos, Dimitrios	Univ. of Illinois at Urbana-Champaign
Velin, Riitta	Finnish Inst. of Occupational Health	Georgiadis, John	Univ. of Illinois at Urbana-Champaign
Himanen, Sari-Leena	irkanmaa Hospital District	Sutton, Brad	Univ. of Illinois at Urbana-Champaign
Värri, Alpo	Tampere Univ. of Tech.		
Van Someren, Eus JW	Netherlands Inst. for Neuroscience, and Inst. of		
17:45-18:00	ThET4.4		
<i>Automatic Sleep Stage Classification Using Two Facial Electrodes</i> , pp. 1643-1646.		<b>ThET6</b>	Room 2 & 3
Virkkala, Jussi	Finnish Inst. of Occupational Health	<b>Ambulatory Monitoring Systems (Oral Session)</b>	
Velin, Riitta	Finnish Inst. of Occupational Health	17:00-17:15	ThET6.1
Himanen, Sari-Leena	irkanmaa Hospital District	<i>A Fast Gauss-Newton Optimizer for Estimating Human Body Orientation</i> , pp. 1679-1682.	
Värri, Alpo	Tampere Univ. of Tech.	Lee, Jung Keun	Univ. of Victoria
Müller, Kiti	Finnish Inst. of Occupational Health, Helsinki	Park, Edward J.	Univ. of Victoria
Hasan, Joel	Pirkanmaa Hospital District		
18:00-18:15	ThET4.5	17:15-17:30	ThET6.2
<i>Using Psychoacoustics of Snoring Sounds to Screen for Obstructive Sleep Apnea</i> , pp. 1647-1650.		<i>Low-Power Signal Processing Devices for Portable ECG Detection</i> , pp. 1683-1686.	
Ng, Andrew Keong	Nanyang Tech. Univ.	Cheng, Chih-Jen	National Chung Cheng Univ.
Koh, Tong San	Nanyang Tech. Univ.	Lee, Shuenn-Yuh	National Chung Cheng Univ.
18:15-18:30	ThET4.6	Wang, Cheng-Pin	National Chung Cheng Univ.
<i>Single Layer Network Classifiers to Assist in the Detection of Obstructive Sleep Apnea Syndrome from Oximetry Data</i> , pp. 1651-1654.		Kao, Wei-Chun	National Chung Cheng Univ.
Marcos, J. Victor	Univ. of Valladolid	17:30-17:45	ThET6.3
Homero, Roberto	Univ. of Valladolid	<i>The Deployment of a Non-Intrusive Alternative to Sleep/Wake Wrist Actigraphy in a Home-Based Study of the Elderly</i> , pp. 1687-1690.	
Álvarez, Daniel	Univ. of Valladolid	Walsh, Lorcan	National Univ. of Ireland, Maynooth,
del Campo, Félix	Hospital del Río Hortega	McLoone, Sean F.	National Univ. of Ireland, Maynooth
Zamarrón, Carlos	Hospital Clínico Univ. of Valladolid	Behan, Julie	Intel Ireland
López, Miguel	Univ. of Valladolid	Dishongh, Terrance	intel Corp.
		17:45-18:00	ThET6.4
		<i>Continuous Cuff-Less Blood Pressure Monitoring Based on the Pulse Arrival Time Approach: The Impact of Posture</i> , pp. 1691-1694.	
		Muehlsteff, Jens	Philips
		Aubert, Xavier	Philips Res. Lab. Aachen
		Morren, Geert	Philips
		18:00-18:15	ThET6.5
<b>ThET5</b>	Room 1	<i>Reliable Motion Artifact Detection for ECG Monitoring Systems with Dry Electrodes</i> , pp. 1695-1698.	
<b>Parallel MRI Reconstruction (Oral Session)</b>		Ottenbacher, Joerg Mathias	Univ. of Karlsruhe
17:00-17:15	ThET5.1	Kirst, Malte	FZI Res. Center for Information Tech.
<i>A New Method in Accelerating PROPELLER MRI</i> , pp. 1655-1658.		Caldas Jatobá, Luciana	Univ. of Karlsruhe
Li, Bing Keong	The Univ. of Queensland	Huflejt, Michal	Univ. of Hamburg
D'Arcy, Michael	The Univ. of Queensland	Grossmann, Ulrich	Univ. of Karlsruhe
Weber, Ewald	The Univ. of Queensland	Stork, Wilhelm	Univ. of Karlsruhe
Crozier, Stuart	The Univ. of Queensland	18:15-18:30	ThET6.6
17:15-17:30	ThET5.2	<i>Remote Health Monitoring with Wearable Non-Invasive Mobile System: The HealthWear Project</i> , pp. 1699-1702.	
<i>Block Circulant Quasi-Band Matrix Property for the SENSE Unfolding in K-Space and Justification for GRAPPA</i> , pp. 1659-1662.		Paradiso, Rita	Milior SpA
Liu, Tian	Cornell Univ.	Alonso, Albert	Hospital Clinic
Kressler, Bryan	Cornell Univ.	Cianflone, Domenico	Univ. vita Salute San Raffaele
Wang, Kang	Cornell Univ.	Milsis, Alexis	'Sotiria' General Chest Diseases Hospital
Wang, Yi	Cornell Univ.	Vavouras, Theodoros	ATKOSoft SA
17:30-17:45	ThET5.3	Malliopoulos, Christos	COSMOTE Mobile Telecommunications
<i>2d Adaptive Coil Sensitivity Estimation for Dynamic-Parallel MRI Reconstruction</i> , pp. 1663-1666.			
Liu, Ke	Monash Univ.		
Zhang, Jingxin	Monash Univ.		
17:45-18:00	ThET5.4		
<i>Accelerating Sensitivity Encoding Using Compressed Sensing</i> , pp. 1667-1670.		<b>ThET7</b>	Room 8 & 15
Liang, Dong	Univ. of Wisconsin, Milwaukee	<b>Neural Decoding (Oral Session)</b>	
Liu, Bo	Univ. of Wisconsin, Milwaukee	17:00-17:15	ThET7.1
Ying, Lei (Leslie)	Univ. of Wisconsin	<i>Towards Closed-Loop Decoding of Dexterous Hand Movements Using a Virtual Integration Environment</i> , pp. 1703-1706.	
18:00-18:15	ThET5.5	Aggarwal, Vikram	Johns Hopkins Univ.
<i>Compressed Sensing Parallel Magnetic Resonance Imaging</i> , pp. 1671-1674.		Singhal, Girish	Johns Hopkins Univ.
Ji, Jim Xiuquan	Texas A&M Univ.	He, Jiping	Arizona State Univ.
Lang, Tao	Texas A&M Univ.	Schieber, Marc	Univ. of Rochester
Zhao, Chen	Texas A&M Univ.	Thakor, Nitish	Johns Hopkins Univ.
		17:15-17:30	ThET7.2
		<i>EVestG(TM): Responses in Depressed Patients</i> , pp. 1707-1710.	
		Garrett, Amber	Monash
		Lithgow, Brian John	Monash Univ.
		Gurvich, Caroline	Alfred Hospital
		Fitzgerald, Paul	Alfred



17:30-17:45 ThET7.3  
*Instantaneous Frequency and Amplitude Modulation of EEG in the Hippocampus Reveals State Dependent Temporal Structure*, pp. 1711-1715.

Nguyen, David MIT  
Barbieri, Riccardo MGH-Harvard Medical School-MIT  
Wilson, Matthew MIT  
Brown, Emery N MGH-Harvard Medical School-MIT

17:45-18:00 ThET7.4  
*A Neuron Signature Based Spike Feature Extraction Algorithm for On-Chip Implementation*, pp. 1716-1719.

Yang, Zhi Univ. of California, Santa Cruz  
Chen, Tung-Chien NTU/UCSC  
Liu, Wentai Univ. of California, Santa Cruz

18:00-18:15 ThET7.5  
*Tracking the Non-Stationary Neuron Tuning by Dual Kalman Filter for Brain Machine Interfaces Decoding*, pp. 1720-1723.

Wang, Yiwen Univ. of Florida  
Principe, Jose Univ. of Florida

18:15-18:30 ThET7.6  
*Principal Component Analysis of M1 Neurophysiology Data Suggests a Motor-Control System-Architecture Template*, pp. 1724-1728.

Krouchev, Nedialko I. Univ. de Montreal  
Galiana, Henrietta L. McGill Univ.  
Kalaska, John F. Univ. de Montreal

**ThET8 Room 19 & 20**  
**Electrotechnologies in Cardiology (Oral Session)**

17:00-17:15 ThET8.1  
*Cardiac Differentiation of Embryonic Stem Cells with Point-Source Electrical Stimulation*, pp. 1729-1732.

Chen, Michael Q. Stanford Univ.  
Xie, Xiaoyan Stanford Univ. School of Medicine  
Whittington, R. Hollis Stanford Univ.  
Kovacs, Gregory T.A. Stanford Univ.  
Wu, Joseph Stanford Univ.  
Giovangrandi, Laurent Stanford Univ.

17:15-17:30 ThET8.2  
*Phase Angle Shift Is a Better Determinant for Catheter Electrode Contact with Tissue Compared to a Catheter Sensed Electrogram*, pp. 1733-1736.

Everett, Thomas Univ. of California San Francisco  
Byrd, Israel St. Jude Medical Inc  
Wilson, Emily Univ. of California San Francisco  
Skoglund, Jamie St. Jude Medical  
Olgin, Jeffrey Univ. of California San Francisco

17:30-17:45 ThET8.3  
*A Simulation Framework for Dual Chamber Heart Rhythm and Cardiac Pacing*, pp. 1737-1740.

Lian, Jie Micro Systems Engineering, Inc.  
Muessig, Dirk Micro Systems Engineering, Inc.

17:45-18:00 ThET8.4  
*Comparison of the Electrophysiologically Based Optimization Methods with Different Pacing Parameters in Patient Undergoing Resynchronization Treatment*, pp. 1741-1744.

Miri, Raz Univ. of Karlsruhe  
Reumann, Matthias IBM T. J. Watson Res. Center  
Keller, David Urs Josef Univ. Karlsruhe (TH)  
Farina, Dmytro Univ. of Karlsruhe  
Doessel, Olaf Univ. of Karlsruhe

18:00-18:15 ThET8.5  
*Simultaneous Double Shock Techniques for Atrial Fibrillation - a Simulation Study.*, pp. 1745-1748.

Konakanchi, Deepika Univ. of Memphis  
de Jongh Curry, Amy The Univ. of Memphis

18:15-18:30 ThET8.6  
*Physiological State Characterization by Clustering Heart Rate, Heart Rate Variability and Movement Activity Information*, pp. 1749-1752.

Bidargaddi, Niranjani CSIRO  
Sarela, Antti csiro  
Korhonen, Ilkka VTT

**ThET9 Room 10**  
**Degenerative Brain Disorders (Oral Session)**

17:00-17:15 ThET9.1  
*Online Pathological Tremor Characterization Using Extended Kalman Filtering*, pp. 1753-1756.

Bó, António P. L. LIRMM  
Poignet, Philippe LIRMM, UMR CNRS 5506, Univ. of Montpellier II

17:15-17:30 ThET9.2  
*EEG and MRI Data Fusion for Early Diagnosis of Alzheimer's Disease*, pp. 1757-1760.

Patel, Tejash Rowan Univ.  
Polikar, Robi Rowan Univ.  
Davatzikos, Christos Univ. of Pennsylvania  
Clark, Christopher Univ. of Pennsylvania

17:30-17:45 ThET9.3  
*Submovements in Visually-Guided and Memory-Guided Reaching Tasks: Changes in Parkinson's Disease*, pp. 1761-1764.

Myall, Daniel J. Christchurch School of Medical and Health Sciences  
MacAskill, Michael Univ. of Otago, Christchurch  
Anderson, Tim J. Univ. of Otago  
Jones, Richard D. Van der Veer Inst.

17:45-18:00 ThET9.4  
*Analysis of Spatial Temporal Plantar Pressure Pattern of Footprint Pressure and During Gait in Parkinson's Disease*, pp. 1765-1768.

Okuno, Ryuhei Setsunan Univ.  
Fujimoto, Satoshi Osaka Univ.  
Akazawa, Jun Nara Inst. of Science & Tech.  
Yokoe, Masaru Osaka Univ.  
Sakoda, Saburo Osaka Univ.  
Akazawa, Kenzo Osaka Inst. of Tech.

18:00-18:15 ThET9.5  
*Quantifying Drug Induced Dyskinesia in Parkinson's Disease Patients Using Standardized Videos*, pp. 1769-1772.

Sathyaranayanan Rao, Anusha Vanderbilt Univ.  
Bodenheimer, Robert Vanderbilt Univ.  
Davis, Thomas Vanderbilt Univ.  
Li, Rui Vanderbilt Univ.  
Voight, Cissy Star Physical Therapy  
Dawant, Benoit Vanderbilt Univ.

18:15-18:30 ThET9.6  
*Hardware-Program Complex for Inspection of Eyes, Head and Hand Movements Coordination of the Man.*, pp. 1773-1776.

Baziyan, Boris Kh. Intitute of Neurology, Russian Acad. of Science  
Chigaleichik, Larisa Scientific Centre of Neurology of RAMS  
Damyanovich, Elena Scientific Centre of Neurology of RAMS  
Teslenko, Elena Scientific Centre of Neurology Russian Acad. of Medical Scienc  
Poleshuk, Vsevolod Scientific Centre of Neurology Russian Acad. of Medical Scien  
Shvetsov, Andrey Scientific Centre of Neurology of RAMS  
Ivanova, Ekaterina Russian Neurologic Center Acad. of Medical Science  
Yakovlev, Gleb Russian Neurologic Center Acad. of Medical Science

**ThET10 Room 18**  
**Aural/Visual Prostheses (Oral Session)**

17:00-17:15 ThET10.1  
*Objective Estimation of the Listening Effort: Towards a Neuropsychological and Neurophysical Model*, pp. 1777-1780.

Strauss, Daniel J. Computational Diagnostics & Biocybernetics Unit

Corona-Strauss, Farah I. Saarland Univ. Hospital  
Froehlich, Matthias CDB-Unit



17:15-17:30	ThET10.2	17:45-18:00	ThET11.4
<i>In Vivo Study of Response Threshold in Retinal Degenerate Model at Different Degenerate Stages</i> , pp. 1781-1784.		<i>Optimization Proposal of a Standard-Based Patient Monitoring Platform for Ubiquitous Environments</i> , pp. 1813-1816.	
Chan, Lai-Hang Leanne	Univ. of Southern California	Martinez Ruiz, Ignacio	Univ. of Zaragoza
Ray, Aditi	Univ. of Southern California	Escayola, Javier	Univ. of Zaragoza
Thomas, Biju	Doheny Eye Inst.	Fernandez-Bobadilla, Ignacio	Univ. of Zaragoza
Humayun, Mark	Univ. of Southern California	Martinez-Espronedada, Miguel	Public Univ. of Navarra
Weiland, James	Univ. of Southern California	Serrano, Luis	Public Univ. of Navarra
17:30-17:45	ThET10.3	Trigo, Jesus	Univ. of Zaragoza
<i>Retinal Prosthesis Phosphene Shape Analysis</i> , pp. 1785-1788.		Led, Santiago	Public Univ. of Navarra
Nanduri, Devyani	Univ. of Southern California	Garcia Moros, Jose	Univ. of Zaragoza
Humayun, Mark	Univ. of Southern California	18:00-18:15	ThET11.5
Greenberg, Robert	Second Sight Medical Products, Inc.	<i>Mechanisms of Security Based on Digital Certificates Applied in a Telemedicine Network</i> , pp. 1817-1820.	
McMahon, Matthew J.	Second Sight Medical Products Inc	Vivas, Tibisay	Univ. SIMON BOLIVAR
Weiland, James	Univ. of Southern California	Zambrano, Andreina	simon bolivar Univ.
17:45-18:00	ThET10.4	Huerta, Mónica	Simon Bolivar Univ.
<i>Efficacy of Supra-Choroidal, Bipolar, Electrical Stimulation in a Vision Prosthesis</i> , pp. 1789-1792.		18:15-18:30	ThET11.6
Wong, Yan Tat	Univ. of New South Wales	<i>SLIM: A Secured Lightweight Interactive Middleware for Wireless Body Area Network</i> , pp. 1821-1824.	
Chen, Spencer Chin-Yu	Univ. of New South Wales	Waluyo, Agustinus Borgy	Inst. for Infocomm Res.
Kerdraon, Yves K	Univ. of Sydney	Pek, Isaac	Inst. for Infocomm Res.
Allen, Penelope J	Royal Victorian Eye and Ear Hospital	Chen, Xiang	Inst. for Infocomm Res.
McCombe, Mark F	Royal Victorian Eye and Ear Hospital	Yeoh, Wee Soon	Inst. for Infocomm Res.
Morley, John William	Univ. of Western Sydney	ThET12	Room 17
Lovell, Nigel H	Univ. of New South Wales	<b>Biomaterial-Cell Interactions (Oral Session)</b>	
Suaning, Gregg	The Univ. of New South Wales	17:00-17:15	ThET12.1
18:00-18:15	ThET10.5	<i>Biomaterials for Spinal Cord Regeneration: Outgrowth of Presumptive Neuronal Precursors on Electrospun Poly(<math>\mu</math>;-)-Caprolactone Scaffolds Microlayered with Alternating Polyelectrolytes</i> , pp. 1825-1828.	
<i>Hearing Aid Gain Prescriptions Balance Restoration of Auditory Nerve Mean-Rate and Spike-Timing Representations of Speech</i> , pp. 1793-1796.		Thouas, George Anthony	Monash Univ.
Dinath, Faheem	McMaster Univ.	Contreras, Karla	Monash Univ.
Bruce, Ian Christopher	McMaster Univ.	Bernard, Claude Charles Andre	Monash Univ.
18:15-18:30	ThET10.6	Sun, Guizhi	Monash Univ.
<i>Charge Recovery During Concurrent Stimulation for a Vision Prosthesis</i> , pp. 1797-1800.		Tsang, Kelly Man Chun	CSIRO
Mohd Addi, Mitra	Univ. of New South Wales	Zhou, Kun	Monash Univ.
Dokos, Socrates	Univ. of New South Wales	Nisbet, David Russell	Monash Univ. and CRC for Pol.
Byrnes-Preston, Phil J.	The Univ. of New South Wales	Forsythe, John	Monash Univ.
Dommel, Norbert Brian	Univ. of New South Wales	17:15-17:30	ThET12.2
Wong, Yan Tat	Univ. of New South Wales	<i>Effect of Connector Width on Stress Distribution in All Ceramic Fixed Partial Dentures (A 3D Finite Element Study)</i> , pp. 1829-1832.	
Lovell, Nigel H	Univ. of New South Wales	Mokhtarikhoee, Sepideh	Dr. Shariati Hospital, Tehran Univ. of Medical Sciences, Te
ThET11	Room 16	Jannesari, Alireza	CADMech Design Inc.
<b>Health Information Systems Standards (Oral Session)</b>		Behroozi, Hamid	Queen's Univ.
17:00-17:15	ThET11.1	Mokhtarikhoee, Saeedeh	Tehran Univ. of Medical Sciences
<i>DS-MAC: Differential Service Medium Access Control Design for Wireless Medical Information Systems</i> , pp. 1801-1804.		17:30-17:45	ThET12.3
Bagga, Sumegha	Univ. of Houston	<i>Peptide-Functionalized Microfabricated Structures for Improved on Chip Neuronal Adhesion</i> , pp. 1833-1836.	
Yuan, Xiaojing	Univ. of Houston	Van Meerbergen, Bart	IMEC vzw
Shen, Jian	Univ. of Houston	Jans, Karolien	IMEC
Balakrishnan, Manikanden	Univ. of Houston	Loo, Josine	IMEC
Benhaddou, Driss	Univ. of Houston	Reekmans, Gunter	IMEC
17:15-17:30	ThET11.2	Braeken, Dries	IMEC
<i>Implementing ISO/IEEE 11073: Proposal of Two Different Strategic Approaches</i> , pp. 1805-1808.		Chong, Seon-Ah	IMEC
Martinez-Espronedada, Miguel	Public Univ. of Navarra	Bonroy, Kristien	IMEC
Serrano, Luis	Public Univ. of Navarra	Maes, Guido	K.U. Leuven
Martinez Ruiz, Ignacio	Univ. of Zaragoza	Borghs, Gustaaf	IMEC
Escayola, Javier	Univ. of Zaragoza	Engelborghs, Yves	Univ. of Leuven
Led, Santiago	Public Univ. of Navarra	Annaert, Wim	KULeuven & VIB
Trigo, Jesus	Univ. of Zaragoza	Bartic, Carmen	IMEC
Garcia Moros, Jose	Univ. of Zaragoza	17:45-18:00	ThET12.4
17:30-17:45	ThET11.3	<i>Characterization of Proteolytically Digested Zebrafish Chorion As Extracellular Matrix</i> , pp. 1837-1840.	
<i>Medical Instrument Data Networking</i> , pp. 1809-1812.		Yang, In Hong	Johns Hopkins Univ.
Gumudavelli, Suman	Univ. of Houston	Lee, Dongho	Korea Univ.
Thongpithoonrat, Pongnarin	Univ. of Houston	Lee, Sang Ho	Korea Univ.
Gurkan, Deniz	Univ. of Houston	Kang, Ji Yoon	Korea Inst. of Science and Tech.
Chapman, Frank	Ashford Tech. Software, Inc.		

18:00-18:15 ThET12.5  
*Cytotoxic Analysis of the Conducting Polymer PEDOT Using Myocytes*, pp. 1841-1844.

Miriani, Rachel Univ. of Michigan  
 Abidian, Mohammad Reza Univ. of Michigan  
 Kipke, Daryl Univ. of Michigan

18:15-18:30 ThET12.6  
*Mechanical Characterization of Polymeric Microcapsules Using a Force-Feedback MEMS Microgripper*, pp. 1845-1848.

Kim, Keekyoung Univ. of Toronto  
 Liu, Xinyu Univ. of Toronto  
 Zhang, Yong Univ. of Toronto  
 Ji, Cheng Univ. of Toronto  
 Wu, Xiao Yu Univ. of Toronto  
 Sun, Yu University of Toronto

**FrPL1** Exhibit Hall A  
**Neurotech: Connecting the Engineering and Physical Sciences with Life Sciences (Plenary)**

08:00-09:00 FrPL1.1  
*Neurotech: Connecting the Engineering and Physical Sciences with Life Sciences\**.  
 Olsen, Kathie L. National Science Foundation

**FrPL2** Exhibit Hall A  
**Understanding and Preventing Sudden Cardiac Death (Plenary)**

13:00-14:00 FrPL2.1  
*Understanding and Preventing Sudden Cardiac Death\**.  
 Glass, Leon McGill Univ. Department of Physiology

**FrAT1** Ballroom A  
**EMBS-LEOS Joint Symposium: Novel Endomicroscopy Technologies (Minisymposium)**

Organizer: Li, Xingde Univ. of Washington  
 Organizer: Ilev, Ilko FDA

09:00-09:30 FrAT1.1  
*Combining Field Imaging Endoscopy with Point Analysis Spectroscopy for Improving Early Lung Cancer Detection (I)*, pp. 1849-1850.  
 Zeng, Haishan BC Cancer Res. Centre

10:00-10:15 FrAT1.3  
*Fiber-Optic Endomicroscopy System for High-Resolution Nonlinear Imaging of Biological Tissue (I)*, pp. 1851-1852.

Wu, Yicong Univ. of Washington  
 Li, Xingde Univ. of Washington

10:15-10:30 FrAT1.5  
*Multiphoton Endoscope Using MEMS Scanner (I)*, pp. 1853-1853.

Tang, Shuo Univ. of British Columbia  
 Chen, Zhongping Univ. of California, Irvine

10:15-10:30 FrAT1.6  
*Multi-Angle LUCAS for High-Throughput On-Chip Cytometry (I)*, pp. 1854-1855.

Ozcan, Aydogan UCLA  
 Su, Ting-Wei Univ. of California, Los Angeles  
 Seo, Sungkyu Univ. of California, Los Angeles  
 Erlinger, Anthony Univ. of California, Los Angeles

**FrAT2** Ballroom B  
**Integrated Systems at the Convergence of Micro-Nano-Bio-ICT: R&D Activities (Minisymposium)**

Organizer: Lymberis, Andreas European Commission

09:00-09:30 FrAT2.1  
*New Frontiers in Capsule Endoscopy: Active Locomotion and Wireless Therapeutic Intervention (I)\**.

Schurr, Marc O. novineon Healthcare Tech. Partners GmbH  
 Mencias, Arianna Scuola Superiore Sant'Anna  
 Dario, Paolo Scuola Superiore Sant'Anna

10:00-10:15 FrAT2.3  
*Impedimetric Microanalysis System for Deep Vein Thrombosis Point-Of-Care Testing (I)*, pp. 1856-1856.

Ali, Zulfur Univ. of Teesside  
 Strohhöfer, Christof Fraunhofer IZM  
 Korri-Youssoufi, Hafsa Univ. Paris-Sud  
 Kyselovic, Jan Comenius Univ. Bratislava  
 Jaffrezic-Renault, Nicole Claude Bernard Univ. Lyon 1  
 Abdelhamid, Errachid Inst. de Bioingenieria de Catalunya (IBEC)  
 Auger, Vincent Univ. of Teesside  
 Mills, Christopher Bioengineering Inst. of Catalonia (IBEC)

10:15-10:30 FrAT2.4  
*The NeuroProbes Project: A Concept for Electronic Depth Control (I)*, pp. 1857-1857.

Neves, Herc IMEC  
 Torfs, Tom IMEC  
 Yazicioglu, Refet Firat IMEC  
 Aslam, Junaid IMEC  
 Aarts, Arno Catholic Univ. of Leuven, Inter university Microelectronics Cen  
 IMEC  
 Merken, Patrick IMEC  
 Ruther, Patrick Univ. of Freiburg  
 Van Hoof, Chris IMEC

10:15-10:30 FrAT2.5  
*Bio-Sensing Textiles to Support Health Management (I)*, pp. 1858-1858.  
 Luprano, Jean CSEM - Centre Suisse d'Electronique et de Microtechnique

**FrAT3** Ballroom C  
**Blind Source Separation Techniques (Oral Session)**

09:00-09:15 FrAT3.1  
*Modulation Filtering for Heart and Lung Sound Separation from Breath Sound Recordings*, pp. 1859-1862.

Falk, Tiago Queen's Univ.  
 Chan, Wai-Yip Queen's Univ.

09:15-09:30 FrAT3.2  
*Eigenvector Analysis for Separation of a Spectrally Concentrated Source from a Mixture*, pp. 1863-1866.

Phlypo, Ronald Ghent Univ.  
 Zarzoso, Vicente Univ. de Nice - CNRS  
 Lemahieu, Ignace Ghent Univ.

09:30-09:45 FrAT3.3  
*Exploiting Spatial Topographies for Atrial Signal Extraction in Atrial Fibrillation ECGs*, pp. 1867-1870.

Bonizzi, Pietro Univ. of Nice-Sophia Antipolis  
 Phlypo, Ronald Ghent Univ.  
 Zarzoso, Vicente Univ. de Nice - CNRS  
 Meste, Olivier UNSA-CNRS

09:45-10:00 FrAT3.4  
*Noninvasive Detection of Small Bowel Electrical Activity from SQUID Magnetometer Measurements Using SOBI*, pp. 1871-1874.

Erickson, Jon Vanderbilt Univ.  
 Obioha, Chibuikwe Vanderbilt Univ.  
 Goodale, Adam Vanderbilt Univ.  
 Bradshaw, Alan Vanderbilt Univ.  
 Richards, William Vanderbilt Univ.

10:00-10:15 FrAT3.5  
*Robustness of the Blind Source Separation with Reference against Uncertainties of the Reference Signals*, pp. 1875-1878.

Netabayashi, Tomoyuki Tohoku Univ.  
 Kimura, Yoshitaka Tohoku Univ.  
 Chida, Shinichi Tesco Co Ltd  
 Ito, Takuya Tohoku Univ.  
 Ohwada, Kazunari Atom medical Co Ltd  
 Katayama, Norihiro Tohoku Univ.  
 Okamura, Kunihiko Tohoku Univ.  
 Nakao, Mitsuyuki Tohoku Univ.

10:15-10:30	FrAT3.6		
<i>ICA Based Multiple Brain Sources Localization</i> , pp. 1879-1882.			
Chen, Yongjian	The Univ. of Tokushima		
Akutagawa, Masatake	The Univ. of Tokushima		
Katayama, Masato	The Univ. of Tokushima		
Zhang, Qinyu	ShenZhen Graduate School, Harbin Inst. of Tech. ShenZh		
Kinouchi, Yohsuke	The Univ. of Tokushima		
<b>FrAT4</b>	Room 11 & 12		
<b>Non-Stationary Processing (Oral Session)</b>			
09:00-09:15	FrAT4.1		
<i>A Novel Approach for Doppler Blood Flow Measurement</i> , pp. 1883-1885.			
McNamara, David	Clarkson Univ.		
Goli, Asghar	Clarkson Univ.		
Ziarani, Alireza	Clarkson Univ.		
09:15-09:30	FrAT4.2		
<i>Non-Invasive Measurement of Respiratory Rate in Children Using the Photoplethysmogram</i> , pp. 1886-1889.			
Fleming, Susannah G	Univ. of Oxford		
Tarassenko, Lionel	Univ. of Oxford		
Thompson, Matthew	Univ. of Oxford		
Mant, David	Oxford Univ.		
09:30-09:45	FrAT4.3		
<i>Automatic Wheeze Detection Using Histograms of Sample Entropy</i> , pp. 1890-1893.			
Jin, Feng	NANYANG Tech. Univ.		
Sattar, Farook	Nanyang Tech. Univ.		
Goh, Daniel	National Univ. Hospital		
09:45-10:00	FrAT4.4		
<i>Crackles Detection Using a Time-Variant Autoregressive Model</i> , pp. 1894-1897.			
Dorantes, Guadalupe	Univ. Autonoma Metropolitana (UAM-740101AR1)		
Charleston-Villalobos, Sonia	Univ. Autonoma Metropolitana		
Gonzalez-Camarena, Ramon	Univ. Autonoma Metropolitana		
Chi-Lem, Georgina	Univ. Autónoma Metropolitana		
Carrillo, Jose Guillermo	National Inst. of Res. Diseases		
Aljama-Corrales, Tomas	Univ. Autonoma Metropolitana		
10:00-10:15	FrAT4.5		
<i>High-Resolution Analysis of Transient Evoked Otoacoustic Emissions</i> , pp. 1898-1902.			
McNamara, David	Clarkson Univ.		
Goli, Asghar	Clarkson Univ.		
Ziarani, Alireza	Clarkson Univ.		
10:15-10:30	FrAT4.6		
<i>Peri-Event Cross-Correlation Over Time for Analysis of Interactions in Neuronal Firing</i> , pp. 1903-1906.			
Paiva, António R. C.	Univ. of Florida		
Park, Il	Univ. of Florida		
Sanchez, Justin C.	Univ. of Florida		
Principe, Jose	Univ. of Florida		
<b>FrAT5</b>	Room 1		
<b>Image Classification and Analysis (Oral Session)</b>			
09:00-09:15	FrAT5.1		
<i>Simple Quantification of Multiplexed Quantum Dot Staining in Clinical Tissue Samples</i> , pp. 1907-1910.			
Caldwell, Matthew	Georgia Inst. of Tech.		
Moffitt, Richard A.	Georgia Inst. of Tech.		
Liu, Jian	Emory Univ.		
Parry, R. Mitchell	Georgia Inst. of Tech.		
Sharma, Yachna	Georgia Inst. of Tech.		
Wang, May Dongmei	Georgia Tech. and Emory Univ.		
09:15-09:30	FrAT5.2		
<i>Automatic Classification of Chromosomes in Q-Band Images</i> , pp. 1911-1914.			
Poletti, Enea	Univ. of Padova		
Grisan, Enrico	Univ. of Padova		
Ruggeri, Alfredo	Univ. of Padova		
09:30-09:45	FrAT5.3		
<i>Gesture Recognition for Interactive Exercise Programs</i> , pp. 1915-1917.			
Perkins, Jedediah	Oregon Health & Science Univ.		
Pavel, Michael	Oregon Health and Science Univ.		
Jimison, Holly	Oregon Health & Science Univ.		
Scott, Susan	Renewable Fitness		
09:45-10:00	FrAT5.4		
<i>Automatic Chromosome Pairing Using Mutual Information</i> , pp. 1918-1921.			
Khmelniskii, Artem	Inst. de Sistemas e Róbitca		
Ventura, Rodrigo	Inst. Superior Técnico, TULisbon		
Sanches, João	Inst. de Sistemase Robótica		
10:00-10:15	FrAT5.5		
<i>A Vectorial Image Classification Method Based on Neighborhood Weighted Gaussian Mixture Model</i> , pp. 1922-1925.			
Tang, Hui	Southeast Univ.		
Dillenseger, Jean-Louis	Univ. de Rennes 1		
Luo, Limin	Univ. of Southeast		
10:15-10:30	FrAT5.6		
<i>Leveraging Genetic Algorithm and Neural Network in Automated Protein Crystal Recognition</i> , pp. 1926-1929.			
Po, Ming Jack	Columbia Univ.		
Laine, Andrew	Columbia Univ.		
<b>FrAT6</b>	Room 2 & 3		
<b>Haptics in Robotic Surgery (Oral Session)</b>			
09:00-09:15	FrAT6.1		
<i>A Tactile Feedback System for Robotic Surgery</i> , pp. 1930-1934.			
Culjat, Martin O.	UCLA		
King, Chih-Hung	UCLA		
Franco, Miguel L.	UCLA		
Lewis, Catherine E.	UCLA		
Bisley, James W.	UCLA		
Dutson, Erik P.	UCLA		
Grundfest, Warren S.	UCLA		
09:15-09:30	FrAT6.2		
<i>Development of a Microsurgery Training System</i> , pp. 1935-1938.			
Wang, Fei	Swiss Federal Inst. of Tech. Lausanne, EPFL		
Su, Eileen	Imperial Coll.		
Burdet, Etienne	Imperial Coll. London		
Bleuler, Hannes	EPFL		
09:30-09:45	FrAT6.3		
<i>Enhancement of Kinesthetic Perception for Microsurgical Teleoperation Using Impedance-Shaping</i> , pp. 1939-1942.			
Son, Hyoung Il	KAIST		
Lee, Doo Yong	KAIST		
09:45-10:00	FrAT6.4		
<i>Lower Bounds on the Optimal Control of Soft Tissue Grasping</i> , pp. 1943-1947.			
Yu, Xiaolong	Univ. of Washington		
Chizeck, Howard	Univ. of Washington		
10:00-10:15	FrAT6.5		
<i>Autoregressive Modeling of Physiological Tremor under Microsurgical Conditions</i> , pp. 1948-1951.			
Becker, Brian	Carnegie Mellon Univ.		
Tummala, Harsha	Univ. of California		
Riviere, Cameron	Carnegie Mellon Univ.		
10:15-10:30	FrAT6.6		
<i>A Study of a Hand-Held Instrument's Angular Motion Due to Physiological Tremor in Micromanipulation Tasks</i> , pp. 1952-1955.			
Tun Latt, Win	Nanyang Tech. Univ.		
Tan, U-Xuan	Nanyang Tech. Univ. Singapore		
Widjaja, Ferdinan	Nanyang Tech. Univ.		
Veluvolu, Kalyana C.	Nanyang Tech. Univ.		
Shee, Chengyap	Nanyang Tech. Univ.		
Ang, Wei Tech	Nanyang Tech. Univ.		

**T7** Room 8 & 15  
**Device-Assisted Rehabilitation Technologies (Oral Session)**

09:00-09:15 FrAT7.1  
*User Evaluation of a Collaborative Wheelchair System*, pp. 1956-1960.  
Zeng, Qiang National Univ. of Singapore,  
Burdet, Etienne Imperial Coll. London  
Teo, Cheeleong National Univ. of Singapore

09:15-09:30 FrAT7.2  
*Muscle Coordination in Healthy Subjects During Floor Walking and Stair Climbing in Robot Assisted Gait Training*, pp. 1961-1964.  
Hussein, Sami Tech. Univ. of Berlin  
Schmidt, Henning Charite Univ. Hospital  
Volkmar, Mirjam Klinik Berlin/Charité  
Werner, Cordula Klinik Berlin/Charité  
Helmich, Ingo Klinik Berlin/Charité  
Piorko, Frank Tech. Univ. of Berlin  
Krüger, Jörg Tech. Univ. of Berlin  
Hesse, Stefan Klinik Berlin/Charité

09:30-09:45 FrAT7.3  
*Is the Collaborative Wheelchair Adapted to Cerebral Palsy and Traumatic Brain Injury Subjects?*, pp. 1965-1968.  
Zeng, Qiang National Univ. of Singapore,  
Teo, Cheeleong National Univ. of Singapore  
Burdet, Etienne Imperial Coll. London

09:45-10:00 FrAT7.4  
*Body Weight Support by Virtual Model Control of a Impedance Controlled Exoskeleton (LOPES) for Gait Training.*, pp. 1969-1972.  
Van Der Kooij, Herman Univ. of twente  
van Asseldonk, Edwin h.f. Univ. of Twente  
Koopman, Bram Univ. of twente

10:00-10:15 FrAT7.5  
*"Hybrid-PLEMO", Rehabilitation System for Upper Limbs with Active / Passive Force Feedback Mode*, pp. 1973-1976.  
Kikuchi, Takehito Osaka Univ.  
Jin, Ying Osaka Univ.  
Fukushima, Kazuki Osaka Univ.  
Akai, Hiroki Osaka Univ.  
Furusho, Junji Osaka Univ.

10:15-10:30 FrAT7.6  
*Assessment of Walking Performance in Robot-Assisted Gait Training: A Novel Approach Based on Empirical Data*, pp. 1977-1980.  
Banz, Raphael Balgrist Univ. Hospital  
Riener, Robert ETH and Univ. Zurich  
Lueneburger, Lars Hocoma AG  
Bolliger, Marc Balgrist Univ. Hospital

**FrAT8** Room 19 & 20  
**Cardiovascular Control and Heart Rate Variability (Oral Session)**

09:00-09:15 FrAT8.1  
*Modification of Autonomic Balance by Electrical Acupuncture Does Not Affect Baroreflex Dynamic Characteristics*, pp. 1981-1984.  
Sugimachi, Masaru Nat'l Cardio Center Res. Inst.  
Kawada, Toru Nat. Cardiovascular Center Res. Inst.  
Yamamoto, Hiromi National Cardiovascular Center Res. Inst.  
Kamiya, Atsunori National Cardiovascular Center Res. Inst.  
Miyamoto, Tadayoshi Nat'l Cardiovascular Ctr Res. Inst.  
Sunagawa, Kenji Kyushu Univ.

09:15-09:30 FrAT8.2  
*Noninvasive Transcutaneous Bionic Baroreflex System Prevents Severe Orthostatic Hypotension in Patients with Spinal Cord Injury*, pp. 1985-1987.  
Yoshida, Masayoshi Kyushu Univ.  
Murayama, Yoshinori Kyushu Univ.  
Chisyaki, Akiko Kyushu Univ.  
Sunagawa, Kenji Kyushu Univ.

09:30-09:45 FrAT8.3  
*Increased Complexity of Short-Term Heart Rate Variability in Hyperthyroid Patients During Orthostatic Challenge*, pp. 1988-1991.  
Tobaldini, Eleonora Univ. degli Studi di Milano  
Porta, Alberto Univ. degli Studi di Milano  
Bulgheroni, Mara Sacco Hospital, Univ. of Milan  
Pecis, Marica L. Sacco Hospital  
Muratori, Milena L. Sacco Hospital  
Bevilacqua, Maurizio L. Sacco Hospital, Milan  
Montano, Nicola Univ. degli Studi di Milano

09:45-10:00 FrAT8.4  
*Assessment of Techniques Used to Evaluate the Effect of Posture and Cardiac Output on Cerebral Autoregulation*, pp. 1992-1995.  
Deegan, Brian Michael Thomas National Univ. of Ireland, Galway  
Geraghty, Maria C Univ. Coll. Dublin  
Hodgeman, Ryan M Beth Israel Deaconess Medical Center  
Reisner, Adam Alex Beth Israel Deaconess Medical Center  
Serrador, Jorge Manuel Beth Israel Deaconess Medical Center  
ÓLaghin, Gearóid National Univ. of Ireland, Galway

10:00-10:15 FrAT8.5  
*Abnormal Cardiac Autonomic Control in Sickle Cell Disease Following Transient Hypoxia*, pp. 1996-1999.  
Sangkatumvong, Suvimol Univ. of Southern California  
Khoo, Michael Univ. of Southern California  
Coates, Thomas Childrens Hospital Los Angeles, USC Keck School of Medicine

10:15-10:30 FrAT8.6  
*Multiscale Sample Entropy in Heart Rate Variability of Aortic Stenosis Patients*, pp. 2000-2003.  
Valencia Murillo, Jose Fernando Tech. Univ. of Catalonia  
Porta, Alberto Univ. degli Studi di Milano  
Vallverdu, Montserrat Tech. Univ. of Catalonia  
Claria, Francesc Lleida Univ.  
Baranowski, Rafa National Inst. of Cardiology  
OrBowska-Baranowska, Eva National Inst. of Cardiology  
Caminal, Pere Tech. Univ. of Catalonia (UPC)

**FrAT9** Room 10  
**Neural Devices and Interfaces (Oral Session)**

09:00-09:15 FrAT9.1  
*Neural Cache: A Low-Power Online Digital Spike-Sorting Architecture*, pp. 2004-2007.  
Peng, Chung-Ching Univ. of Florida  
Sabharwal, Pawan Univ. of Florida  
Bashirullah, Rizwan Univ. of Florida

09:15-09:30 FrAT9.2  
*Inferring the Stability of LIFE through Brain-Machine Interfaces*, pp. 2008-2011.  
DiGiovanna, Jack Univ. of Florida  
Citi, Luca Inst. for Advanced Studies on Biorobotic Engineering  
Yoshida, Ken Indiana Univ. Univ. Indianapolis  
Carpaneto, Jacopo Scuola Superiore Sant'Anna  
Principe, Jose Univ. of Florida  
Sanchez, Justin C. Univ. of Florida  
Micera, Silvestro Scuola Superiore Sant'Anna

09:30-09:45 FrAT9.3  
*Electric Impedance Sensing During the Inhibition of Cell-Cell Adhesion*, pp. 2012-2015.  
Wiertz, Remy Willem Frederik Univ. twente  
Rutten, Wim Univ. of twente

09:45-10:00 FrAT9.4  
*Hybrid Microprobes for Chronic Implantation in the Cerebral Cortex*, pp. 2016-2019.  
Kisban, Sebastian Aron Univ. of Freiburg  
Janssen, Peter KU Leuven  
Herwik, Stanislav Univ. of Freiburg  
Stieglitz, Thomas Univ. of Freiburg  
Paul, Oliver Univ. of Freiburg  
Ruther, Patrick Univ. of Freiburg

10:00-10:15	FrAT9.5			09:15-09:30	FrAT11.2		
<i>A Multi-Channel Instrumentation System for Biosignal Recording</i> , pp. 2020-2023.				<i>An Improved Magnetic Localization and Orientation Algorithm for Wireless Capsule Endoscope</i> , pp. 2055-2058.			
Yu, Hong	Univ. of Florida			Hu, Chao	Shenzhen Inst. of Advanced Tech.		
Li, Pengfei	Univ. of Florida			Yang, Wan	Shenzhen Inst. of Advanced Tech.		
Xiao, Zhiming	Univ. of Florida			Chen, Dongmei	Shenzhen Inst. of Advanced Tech.		
Peng, Chung-Ching	Univ. of Florida			Meng, Max Q.-H.	The Chinese Univ. of Hong Kong		
Bashirullah, Rizwan	Univ. of Florida			Dai, Houde	Shenzhen Inst. of Advanced Tech.		
10:15-10:30	FrAT9.6			09:30-09:45	FrAT11.3		
<i>A Low-Noise Receiver for Multichannel Wireless Neural Recording</i> , pp. 2024-2027.				<i>Laser-Pumped Endoscopic Illumination Source</i> , pp. 2059-2062.			
Yin, Ming	North Carolina State Univ.			Nadeau, Valerie J.	Imperial Coll. London		
Ghovanloo, Maysam	Georgia Inst. of Tech.			Elson, Daniel S.	Imperial Coll. London		
				Neil, Mark A. A.	Imperial Coll. London		
				Hanna, George B.	Imperial Coll. London		
<b>FrAT10</b>	Room 18			09:45-10:00	FrAT11.4		
<b>RF Coil Technology (Oral Session)</b>				<i>Conducting Polymer Based Active Catheter for Minimally Invasive Interventions Inside Arteries</i> , pp. 2063-2066.			
09:00-09:15	FrAT10.1			Shoa, Tina	Univ. of British Columbia		
<i>Identifying Rodent Olfactory Bulb Structures with Micro-DTI</i> , pp. 2028-2031.				Madden, John	Univ. of British Columbia		
Zhao, Xiaoguang	The Univ. of Hong Kong.			Fekri, Niloofar	Univ. of British Columbia		
Hui, Edward S.	The Univ. of Hong Kong			Munce, Nigel	Univ. of Toronto		
Chan, Kevin C.	The Univ. of Hong Kong			Yang, Victor	Univ. of Ryerson		
Cai, Ke-xia	The Univ. of Hong Kong			10:00-10:15	FrAT11.5		
Guo, Hua	The Univ. of Hong Kong			<i>Microbubble-Mediated Oxygen Delivery to Hypoxic Tissues As a New Therapeutic Device</i> , pp. 2067-2070.			
Lai, P. T.	The Univ. of Hong Kong			Bisazza, Agnese	Univ. degli Studi di Torino		
Wu, Ed X.	The Univ. of Hong Kong			Giustetto, Pierangela	Mount Sinai Hospital		
09:15-09:30	FrAT10.2			Rolfo, Alessandro	Univ.		
<i>Transmission Line Effects on the Coil Noise Correlation Matrix in MRI</i> , pp. 2032-2035.				Caniggia, Isabella	Univ.		
Brown, Ryan	Weill Medical Coll. of Cornell Univ.			Balbis, Sonia	Univ.		
Wang, Yi	Cornell Univ.			Guiot, Caterina	Univ.		
09:30-09:45	FrAT10.3			Cavalli, Roberta	Univ.		
<i>An Insertable P-31 RF Coil for Dual-Frequency Magnetic Resonance Imaging &amp; Spectroscopy</i> , pp. 2036-2038.				<b>FrAT12</b>	Room 17		
Dabirzadeh, Arash	Texas A&M Univ.			<b>ElderCare / Assisted Living (Oral Session)</b>			
Chang, Chieh-Wei	Texas A&M Univ.			09:00-09:15	FrAT12.1		
McDougall, Mary	Texas A&M Univ.			<i>Monitoring Activity Patterns and Trends of Older Adults</i> , pp. 2071-2074.			
09:45-10:00	FrAT10.4			Virone, Gilles	Simon Fraser Univ.		
<i>A Ultra High Field Multi-Element Transceive Volume Array for Small Animal MRI</i> , pp. 2039-2042.				Sixsmith, Andrew	simon fraser Univ.		
Weber, Ewald	The Univ. of Queensland			09:15-09:30	FrAT12.2		
Li, Bing Keong Joe	The Univ. of Queensland			<i>System for Providing Geriatric Care Management Service*</i> .			
Liu, Feng	The Univ. of Queensland			Jang, Hyunchul	Korea Inst. of Oriental Medicine		
Crozier, Stuart	The Univ. of Queensland			Lim, Joon-Ho	Electronics & Telecom Res. Inst.		
10:00-10:15	FrAT10.5			Park, Soo-Jun	Electr & Telecomm Res. Inst.		
<i>A Simple Approach to Overcoming Mutual Coupling Effects in Some Transmit Array Coils for Magnetic Resonance Imaging</i> , pp. 2043-2046.				09:30-09:45	FrAT12.3		
McDougall, Mary	Texas A&M Univ.			<i>Identification of Inactivity Behavior in Smart Home</i> , pp. 2075-2078.			
Knight, Jason	Texas A&M Univ. Coll. Station TX			Poujaud, Julien	Univ. Joseph Fourier, Grenoble		
Eigenbrodt, Edwin	Texas A&M Univ.			Noury, Norbert	Univ. Joseph Fourier Grenoble		
Wright, Steven M.	Texas A&M Univ.			09:45-10:00	FrAT12.4		
Chang, Chieh-Wei	Texas A&M Univ.			<i>A Preliminary Study of Using Wireless Kinematic Sensors to Identify Basic Activities of Daily Living</i> , pp. 2079-2082.			
10:15-10:30	FrAT10.6			Dalton, Anthony	National Univ. of Galway		
<i>Towards a Microcoil for Intracranial and Intraductal MR Microscopy</i> , pp. 2047-2050.				ÓLaighin, Gearóid	National Univ. of Ireland, Galway		
Strick, Debra	UCLA			Morgan, Fearghal	National Univ. of Ireland, Galway		
Nunnally, Ray	InVivoMetrics, Inc.			10:00-10:15	FrAT12.5		
Smith, Jolinda	Univ. of Oregon			<i>Learning under Uncertainty in Smart Home Environments</i> , pp. 2083-2086.			
Clark, W. Gilbert	Univ. of California, Los Angeles			Zhang, Shuai	Univ. of Ulster		
Mills, Dixie J.	Dr. Susan Love Res. Foundation			McClellan, Sally	Univ. of Ulster		
Cohen, Mark S.	Univ. of California, Los Angeles			Scotney, Bryan	Univ. of Ulster		
Judy, Jack	UCLA			Nugent, Chris	Univ. of Ulster		
<b>FrAT11</b>	Room 16			<b>FrAT13</b>	Room 9		
<b>Catheter-Based Interventions and Endoscopy (Oral Session)</b>				<b>Innovation &amp; Entrepreneurship in Biomedical Engineering (Minisymposium)</b>			
09:00-09:15	FrAT11.1			09:00-10:30	FrAT13.1		
<i>Intravascular Irreversible Electroporation: Theoretical and Experimental Feasibility Study</i> , pp. 2051-2054.				<i>Management of Innovation and Entrepreneurship (I)</i> , pp. 5930-5930.			
Maor, Elad	Univ. of California at Berkeley			Summers, Ronald	Loughborough Univ.		
Ivorra, Antoni	Univ. of California at Berkeley			Betker, Aimee L.	Univ. of Manitoba		
Rubinsky, Boris	Univ. of California at Berkeley						

FrBPo01	Exhibit Hall C
Neural Signal Classification (Poster Session)	
10:30-12:00	FrBPo01.1
<i>Robust Common Spatial Patterns for EEG Signal Preprocessing</i> , pp. 2087-2090.	
Yong, Xinyi	Univ. of British Columbia
Ward, Rabab	Univ. of British Columbia
Birch, Gary E.	Univ. of British Columbia
10:30-12:00	FrBPo01.2
<i>Spatio-Temporal Modeling for Dense Array ERP Classification</i> , pp. 2091-2094.	
Kota, Srinivas	Southern Illinois Univ.
Gupta, Lalit	Southern Illinois Univ.
Molfese, Dennis	Univ. of Louisville
Vaidyanathan, Ravi	Univ. of Bristol
10:30-12:00	FrBPo01.3
<i>Self-Paced BCI Using Multiple SWT-Based Classifiers</i> , pp. 2095-2098.	
Faradji, Farhad	Univ. of British Columbia
Ward, Rabab	Univ. of British Columbia
Birch, Gary E.	Univ. of British Columbia
10:30-12:00	FrBPo01.4
<i>Modeling and Classification of Knee-Joint Vibroarthrographic Signals Using Probability Density Functions Estimated with Parzen Windows</i> , pp. 2099-2102.	
Rangayyan, Raj	Univ. of Calgary
Wu, Yunfeng	Beijing Univ. of Posts & Telecom
10:30-12:00	FrBPo01.5
<i>Hand Motion Discrimination by EMG Signals without Incorrect Discriminations That Elbow Motions Cause</i> , pp. 2103-2107.	
Kawashima, Hirokazu	Doshisha Univ.
Tsujiuchi, Nobutaka	Doshisha Univ.
Koizumi, Takayuki	Doshisha Univ.
FrBPo02	Exhibit Hall C
Nonlinear Analysis Posters (Poster Session)	
10:30-12:00	FrBPo02.1
<i>Antiepileptic Drug Intervention Decouples Electroencephalogram (EEG) Signals: A Case Study in Unverricht-Lundborg Disease</i> , pp. 2108-2111.	
Liu, Chang-Chia	Univ. of Florida
Xanthopoulos, Petros	Univ. of Florida
Chaovalitwongse, W. Art	Rutgers, The State Univ. of New Jersey
Pardalos, Panos	Univ. of Florida
Uthman, Basim M.	Univ. of Florida
10:30-12:00	FrBPo02.2
<i>Rényi Entropy and Lempel-Ziv Complexity of Mechanomyographic Recordings of Diaphragm Muscle As Indexes of Respiratory Effort</i> , pp. 2112-2115.	
Torres, Abel	CREB, IBEC, Univ. Pol. de Catalunya
Fiz Fernandez, José Antonio	Hospital Univ. Germans Trias i Pujol
Jané, Raimon	Univ. Pol. de Catalunya
Laciar, Eric	Univ. Nacional de San Juan
Galdiz, Juan Bautista	Hospital Cruces
Gea, Joaquim	Hospital del Mar
Morera Prat, Jose	Hospital Univ. Germans Trias i Pujol
10:30-12:00	FrBPo02.3
<i>Circadian Variations of Short-Term Heart Period Irreversibility in Healthy and Chronic Heart Failure Patients</i> , pp. 2116-2119.	
Porta, Alberto	Univ. degli Studi di Milano
D'Addio, Gianni	Fondazione S. Maugeri
Corbi, Graziamaria	Univ. of Molise
Maestri, Roberto	S. Maugeri Foundation, IRCCS
Pinna, Gian Domenico	S. Maugeri Foundation, IRCCS
10:30-12:00	FrBPo02.4
<i>Investigating Variables Participating in the Infant Respiratory Control System Attractor</i> , pp. 2120-2123.	
Terrill, Philip Ian	Univ. of Queensland
Wilson, Stephen	Univ. of Queensland
Suresh, Sadasivam	Mater Children's Hospital
Cooper, David	Mater Misericordiae Children's Hospital
Dakin, Carolyn	Mater Children's Hospital

10:30-12:00	FrBPo02.5
<i>Effects of Magnetic Fields on Intracellular Calcium Oscillations</i> , pp. 2124-2127.	
Zhao, Yongli	Tianjin Pol. Univ.
Yang, Jiancheng	Tianjin Pol. Univ.
Zhang, Yuhong	Hebei Univ. of Tech.
10:30-12:00	FrBPo02.6
<i>Heart Murmur Recognition and Segmentation by Complexity Signatures</i> , pp. 2128-2132.	
Kumar, Dinesh	Univ. of Coimbra
Carvalho, Paulo	Univ. of Coimbra
Antunes, Manual	Univ. of Coimbra
Henriques, Jorge	Univ. of Coimbra
Habetha, Joerg	Philips Res. Lab.
10:30-12:00	FrBPo02.7
<i>Predict the Neurological Recovery under Hypothermia after Cardiac Arrest Using C0 Complexity Measure of EEG Signals</i> , pp. 2133-2136.	
Lu, Yueli	Shanghai JiaoTong Univ.
Jiang, Dineng	Shanghai Jiao Tong Univ.
Jia, Xiaofeng	Johns Hopkins Univ.
Qiu, Yihong	Shanghai Jiao Tong Univ.
Zhu, Yisheng	Shanghai Jiaotong Univ. Shanghai, China
Thakor, Nitish	Johns Hopkins Univ.
Tong, Shanbao	Shanghai Jiao Tong Univ.
10:30-12:00	FrBPo02.8
<i>On the Application of the Auto Mutual Information Rate of Decrease to Biomedical Signals</i> , pp. 2137-2140.	
Escudero, Javier	Univ. of Valladolid
Hornero, Roberto	Univ. of Valladolid
Abásolo, Daniel	Univ. of Valladolid
López, Miguel	Univ. of Valladolid
10:30-12:00	FrBPo02.9
<i>Fetal Heart Rate Detection in Multivariate Abdominal ECG Recordings Using Non-Linear Analysis</i> , pp. 2141-2144.	
Karvounis, Evaggelos	Univ. of Ioannina
Tsipouras, Markos G.	Univ. of Ioannina
Fotiadis, Dimitrios I.	Univ. of Ioannina
10:30-12:00	FrBPo02.10
<i>Comparison of Nonlinear Indices in Analyses of Heart Rate Variability</i> , pp. 2145-2148.	
Li, Cheng	Fudan Univ.
Tang, Da-Kan	School of Information Science and Engineering
Zheng, Da-An	Fudan Univ.
Poon, Chi-Sang	Massachusetts Inst. of Tech.
Wu, Guoqiang	Fudan Univ.
Ding, Guang-Hong	Fudan Univ.
10:30-12:00	FrBPo02.11
<i>Effect of LCDs Displaying Blurred Images on the Postural Control System</i> , pp. 2149-2152.	
Takada, Hiroki	Gifu Univ. of Medical Science
Miyao, Masaru	Nagoya Univ.
Fujikake, Kazuhiro	Nagoya Univ.
Furuta, Masashi	Aichi Univ. of Education
Matsuura, Yasuyuki	Nagoya City Univ.
Kitaoka, Yoshiyuki	Meijo Univ.
10:30-12:00	FrBPo02.12
<i>Nonlinear Forecasting Measurement of Magnetoencephalogram Recordings from Alzheimer's Disease Patients</i> , pp. 2153-2156.	
Gomez, Carlos	Univ. of Valladolid
Hornero, Roberto	Univ. of Valladolid
Mediavilla, Ángela	Univ. of Valladolid
Fernandez, Alberto	Univ. Complutense de Madrid
Abásolo, Daniel	Univ. of Valladolid
10:30-12:00	FrBPo02.13
<i>Non-Linear Modeling of the Steady-State Disturbance Term in Isometric Force</i> , pp. 2157-2160.	
Stitt, Joseph	Pennsylvania State Univ.
Newell, Karl	Pennsylvania State Univ.

10:30-12:00	FrBPo02.14				
<i>The Influence of Urine Volume on Body Impedance Measurement</i> , pp. 2161-2164.					
Hong, Ki Hwan	Seoul National Univ.				
Park, Kwang S.	Seoul National Univ.				
10:30-12:00	FrBPo02.15				
<i>Bayesian Model Order Selection for Nonlinear System Function Expansions</i> , pp. 2165-2168.					
Mitsis, Georgios D.	National Tech. Univ. of Athens				
Jbabdi, Saad	Univ. of Oxford				
<b>FrBPo03</b>					Exhibit Hall C
<b>High-Frequency Ultrasound Technology (Poster Session)</b>					
10:30-12:00	FrBPo03.1				
<i>Progressive Trypsin Digestion and Serum Inhibition in Articular Cartilage Monitored Using High-Frequency Ultrasound in Situ</i> , pp. 2169-2172.					
Wang, Qing	The Hong Kong Pol. Univ.				
Zheng, Yongping	The Hong Kong Pol. Univ.				
Guo, Xia	The Hong Kong Pol. Univ.				
Wang, Shu-Zhe	The Hong Kong Pol. Univ.				
10:30-12:00	FrBPo03.2				
<i>Microbubble Detection by Dual-High-Frequency Ultrasound Excitation*</i> .					
Yeh, Chih-Kuang	National Tsing Hua Univ.				
10:30-12:00	FrBPo03.3				
<i>High Frequency Ultrasound Imaging of Surface and Subsurface Structures of Fingerprints</i> , pp. 2173-2176.					
Saijo, Yoshifumi	Tohoku Univ.				
Kobayashi, Kazuto	Honda Electronics Co., Ltd.				
Okada, Nagaya	HONDA ELECTRONICS CO., LTD.				
Hozumi, Naohiro	Aichi Inst. of Tech.				
Hagiwara, Yoshihiro	Tohoku Univ. Graduate School of Medicine				
Tanaka, Akira	Fukushima Univ.				
Iwamoto, Takahiro	Graduate School of Engineering, Tohoku Univ.				
10:30-12:00	FrBPo03.4				
<i>Acoustic Lens Characterization for Ultrasound and Photoacoustic C-Scan Imaging Modalities</i> , pp. 2177-2180.					
Rao, Naval Gund	Rochester Inst. of Tech.				
Di, Lai	Rochester Inst. of Tech.				
Bhatt, Shweta	University of Rochester School of Medicine				
Arnold, Stephen C.	SMA Opticals Inc.				
Chinni, Bhargava Kumar	ROCHESTER Inst. OF Tech.				
Dogra, Vikram	Univ. of Rochester School of Medicine				
10:30-12:00	FrBPo03.5				
<i>Modified Time-Of-Flight Based Calibration Approach for Ultrasonic Computed Tomography</i> , pp. 2181-2184.					
Filipik, Adam	Brno Univ. of Tech.				
Jan, Jiri	Brno Univ. of Tech.				
Peterlik, Igor	Faculty of Informatics, Masaryk Univ. Brno				
Hemzal, Dusan	Masaryk Univ. Brno				
Ruiter, Nicole	Forschungszentrum Karlsruhe				
Jirik, Radovan	Brno Univ. of Tech.				
10:30-12:00	FrBPo03.6				
<i>High Frequency Ultrasound Characterization of Artificial Skin</i> , pp. 2185-2188.					
Iwamoto, Takahiro	Graduate School of Engineering, Tohoku Univ.				
Saijo, Yoshifumi	Tohoku Univ.				
Hozumi, Naohiro	Aichi Inst. of Tech.				
Kobayashi, Kazuto	Honda Electronics Co., Ltd.				
Okada, Nagaya	HONDA ELECTRONICS CO., LTD.				
Tanaka, Akira	Fukushima Univ.				
Yoshizawa, Makoto	Tohoku Univ.				
<b>FrBPo04</b>					Exhibit Hall C
<b>Image Enhancement (Poster Session)</b>					
10:30-12:00	FrBPo04.1				
<i>Retinex Enhancement of Infrared Images</i> , pp. 2189-2192.					
Li, Ying	Hebei Univ. of Tech.				
He, Renjie	Univ. of Texas Medical School at Houston				
Xu, Guizhi	Hebei Univ. of Tech.				
Hou, Changzhi	Hebei Univ. of Tech.				
Sun, Yunyan	Hebei Univ. of Tech.				
Guo, Lei	Hebei Univ. of Tech.				
Rao, Liyun	The Methodist Hospital Res. Inst.				
Yan, Weili	Hebei Univ. of Tech.				
10:30-12:00	FrBPo04.2				
<i>Towards More Adequate Colour Histograms for In-Body Images</i> , pp. 2193-2196.					
Sousa, André	Inst. de Telecomunicações				
Dinis-Ribeiro, Mário	Inst. Português de Oncologia - Porto				
Areia, Miguel	Portuguese Oncology Inst. - Coimbra				
Correia, Miguel	Faculdade de Engenharia da Univ. do Porto				
Coimbra, Miguel	Inst. de Telecomunicações / Univ. do Porto				
10:30-12:00	FrBPo04.3				
<i>Temporal 2D Reconstruction of Cell Nucleus from Fluorescence Confocal Microscopy Images with Anisotropic Filtering</i> , pp. 2197-2200.					
Sanches, João	Inst. de Sistemase Robótica				
Rodrigues, Isabel	Inst. de Sistemase e Róbitca				
10:30-12:00	FrBPo04.4				
<i>Contrast Enhancement of Mammography Images Using a Fuzzy Approach</i> , pp. 2201-2204.					
Sahba, Farhang	Univ. of Toronto				
Venetsanopoulos, Anastasios	Univ. of Toronto				
10:30-12:00	FrBPo04.5				
<i>Fluorescence Confocal Microscopy Imaging Denoising with Photobleaching</i> , pp. 2205-2208.					
Rodrigues, Isabel	Inst. de Sistemase e Róbitca				
Xavier, João	Inst. Superior Técnico				
Sanches, João	Inst. de Sistemase Robótica				
10:30-12:00	FrBPo04.6				
<i>Dual Apodization with Cross-Correlation in the Presence of Phase Aberration and Noise (I)</i> , pp. 2209-2212.					
Yen, Jesse	Univ. of Southern California				
Seo, Chi Hyung	Univ. of Southern California				
10:30-12:00	FrBPo04.7				
<i>Proposal of Differential Volume Rendering Reconstruction from X-Ray Fluoroscopy for Clinical Veterinary Medicine</i> , pp. 2213-2216.					
Khongsomboon, Khamphong	Tokai Univ.				
Hamamoto, Kazuhiko	Tokai Univ.				
10:30-12:00	FrBPo04.8				
<i>Fast Histogram Equalization for Medical Image Enhancement</i> , pp. 2217-2220.					
Wang, Qian	Shanghai Jiao Tong Univ.				
Chen, Liya	Shanghai Jiao Tong Univ.				
Shen, Dinggang	UNC-Chapel Hill				
10:30-12:00	FrBPo04.9				
<i>Correction of Inhomogeneities in Magnetic Resonance Images</i> , pp. 2221-2224.					
Noterdaeme, Olivier	Univ. of Oxford				
Brady, Michael	Univ. of Oxford				
10:30-12:00	FrBPo04.10				
<i>Multi-Scale Model-Based Vessel Enhancement Using Local Line Integrals</i> , pp. 2225-2228.					
Yuan, Yuan	The Hong Kong Univ. of Science and Tech.				
Chung, Albert C. S.	The Hong Kong Univ. of Science and Tech.				
10:30-12:00	FrBPo04.11				
<i>Characterization of Thyroid Nodules by 3-D Contrast-Enhanced Ultrasound Imaging</i> , pp. 2229-2232.					
Carraro, Roberta	Viglia srl				
Molinari, Filippo	Pol. di Torino				
Garberoglio, Roberto	Fondazione Scientifica Mauriziana - ONLUS				
Deandrea, Maurilio	ASO Ordine Mauriziano - "Umberto I" Hospital				
Suri, Jasjit S	Eigen LLC				



10:30-12:00 FrBPo04.12  
*Information Measures-Based Intensity Standardization of MRI*, pp. 2233-2236.  
 He, Renjie Univ. of Texas Medical School at Houston  
 Datta, Sushmita Univ. of Texas Health Science Center at Houston  
 Tao, Guozhi Univ. of Texas, Medical School at Houston  
 Narayana, Ponnada Univ. of Texas Medical School at Houston

**FrBPo05** Exhibit Hall C  
**Ocular Image Analysis and Reconstruction (Poster Session)**

10:30-12:00 FrBPo05.1  
*Physically Consistent Registration of Extraocular Muscle Models from MRI*, pp. 2237-2241.

Wei, Qi Univ. of British Columbia  
 Pai, Dinesh K. UBC

10:30-12:00 FrBPo05.2  
*A Novel Registration Method for Retinal Images Based on Local Features*, pp. 2242-2245.

Chen, Jian Inst. of automation, Chinese Acad. of sciences  
 Laine, Andrew Columbia Univ.  
 Tian, Jie Chinese Acad. of Sciences  
 Smith, R Theodore Columbia Univ.

10:30-12:00 FrBPo05.3  
*Blood Vessels and Feature Points Detection on Retinal Images*, pp. 2246-2249.

Ardizzzone, Edoardo Univ. degli studi di Palermo  
 Pirrone, Roberto Univ. degli studi di Palermo  
 Gambino, Orazio Univ. degli Studi di Palermo  
 Radosta, Salvatore Univ. degli Studi di Palermo

10:30-12:00 FrBPo05.5  
*Coarse to Fine Segmentation of Stargardt Rings Using an Expert Guided Dual Ellipse Model*, pp. 2250-2253.

Lee, Noah Columbia Univ.  
 Laine, Andrew Columbia Univ.  
 Smith, R Theodore Columbia Univ.

10:30-12:00 FrBPo05.6  
*Specular Surface Reconstruction for Multi-Camera Corneal Topographer Arrangements*, pp. 2254-2257.

Fazekas, Zoltan Computer and Automation Res. Inst.  
 Soumelidis, Alexandros Computer and Automation Res. Inst.  
 Bódis-Szomorú, András Computer and Automation Res. Inst.  
 Schipp, Ferenc Eotvos Lorant Univ. of Budapest

10:30-12:00 FrBPo05.7  
*Retinal Vessel Segmentation on SLO Image (I)*, pp. 2258-2261.

Xu, Juan Univ. of Pittsburgh  
 Ishikawa, Hiroshi Univ. of Pittsburgh School of Medicine  
 Wollstein, Gadi Univ. of Pittsburgh School of Medicine  
 Schuman, Joel S. Univ. of Pittsburgh School of Medicine

10:30-12:00 FrBPo05.8  
*REVIEW - a Reference Data Set for Retinal Vessel Profiles (I)*, pp. 2262-2265.

Al-Diri, Bashir The Univ. of Lincoln  
 Hunter, Andrew Univ. of Lincoln  
 Steel, David Sunderland Eye Infirmary  
 Maged, Habib Sunderland Eye Infirmary  
 Hudaib, Taghreed The Univ. of Lincoln  
 Berry, Simon Sunderland Eye Infirmary

10:30-12:00 FrBPo05.9  
*Level-Set Based Automatic Cup-To-Disc Ratio Determination Using Retinal Fundus Images in ARGALI (I)*, pp. 2266-2269.

Wong, Damon Inst. for Infocomm Res.  
 Liu, Jiang Inst. for Infocomm Res. A\*STAR  
 Lim, Joo Hwee Inst. for Infocomm Res.  
 Jia, Xiao Inst. for Infocomm Res.  
 Yin, Fengshou Inst. for Infocomm Res.  
 Li, Huiqi Inst. for Infocomm Res.  
 Wong, Tien Yin National Univ. of Singapore

**FrBPo06** Exhibit Hall C  
**Sensors and Systems Enabling E-Health, M-Health and P-Health (Poster Session)**

10:30-12:00 FrBPo06.1  
*Comparison of Reflected Green Light and Infrared Photoplethysmography*, pp. 2270-2272.

Maeda, Yuka Chiba Univ.  
 Sekine, Masaki Chiba Univ.  
 Tamura, Toshiyo Chiba Univ.  
 Takuji, Suzuki Toshiba Corp.  
 Kameyama, Ken-ichi Toshiba

10:30-12:00 FrBPo06.2  
*Calculation of Ventilation Threshold Using Noncontact Respirometry*, pp. 2273-2276.

Aoki, Hirooki Tokyo Univ. of Science  
 Ichimura, Shiro Tokyo Univ. of Science  
 Kiyooka, Satoru Tokyo Univ. of Science  
 Koshiji, Kohji Tokyo Univ. of Science

10:30-12:00 FrBPo06.3  
*Ultrasound-Based Coordinate Measuring System for Estimating Cervical Dysfunction During Functional Movement*, pp. 2277-2280.

Hemmati Berivanlou, Nima Tehran Univ. of medical science  
 Abolhassani, Mohammad Djavad Tehran Univ. of Medical Science

10:30-12:00 FrBPo06.4  
*A Virtual Instrument for Real Time in Vivo Measurement of Carotid Artery Compliance*, pp. 2281-2284.

Joseph, Jayaraj Indian Inst. of Tech.  
 Venketaraman, Jayashankar Indian Inst. of Tech.

10:30-12:00 FrBPo06.5  
*Determination of Tissue Type Surrounding a Needle Tip by Electrical Bioimpedance*, pp. 2285-2286.

Kalvoy, Haavard Rikshospitalet  
 Martinsen, Rrjan G Univ. of Oslo  
 Grimmnes, Sverre The National Hospital of Norway

10:30-12:00 FrBPo06.6  
*A High Resolution, Monolithic Crystal, PET/MRI Detector with DOI Positioning Capability*, pp. 2287-2290.

Li, Xiaoli Imaging Res. Lab. U. of Washington  
 Lockhart, Catherine Univ. of Washington  
 Lowellen, Tom Univ. of Washington  
 Miyaoka, Robert Univ. of Washington

10:30-12:00 FrBPo06.7  
*Novel Neuromorphic CMOS Device Array for Biochemical Charge Sensing*, pp. 2291-2294.

Pandey, Santosh Iowa State Univ.  
 Daryanani, Michelle Lake Erie Coll. of Osteopathic medicine  
 Chen, Baozhen iowa state Univ.  
 Tao, Chengwu iowa state Univ.

10:30-12:00 FrBPo06.8  
*Analysis of Op-Amp Power-Supply Current Sensing Current-Mode Instrumentation Amplifier for Biosignal Acquisition System*, pp. 2295-2298.

Li, Jintao Univ. of Macau  
 Pun, Sio Hang Univ. of Macau  
 Mak, Peng Un Univ. of Macau  
 Vai, Mang I. Univ. of Macau

10:30-12:00 FrBPo06.9  
*Relation between Mouse Button Click Duration and Muscle Contraction Time*, pp. 2299-2301.

Komandur, Sashidharan Univ. of Washington  
 Johnson, Peter Univ. of Washington  
 Storch, Richard Univ. of Washington

10:30-12:00 FrBPo06.10  
*The Method of Realizing the Three-Dimension Positioning Based on Linear CCD Sensor in General DSP Chip*, pp. 2302-2305.

Wu, Jian Tsinghua Univ.



10:30-12:00	FrBPo06.11		10:30-12:00	FrBPo07.5
<i>Heat Enhances Gas Delivery and Acoustic Attenuation in CO2 Filled Microbubbles</i> , pp. 2306-2309.			<i>New Method for Assessment of Gait Variability Based on Wearable Ground Reaction Force Sensor</i> , pp. 2341-2344.	
Giustetto, Pierangela	Univ. degli Studi di Torino		Liu, Tao	Kochi Univ. of Tech.
Bisazza, Agnese	Univ.		Inoue, Yoshio	Kochi Univ. of Tech.
Biagioni, Angelo	Univ.		Shibata, Kyoko	Kochi Univ. of Tech.
Adriano, Alippi	Univ.			
Bettucci, Andrea	Univ.		10:30-12:00	FrBPo07.6
Cavalli, Roberta	Univ.		<i>SmartPad: A Wireless, Adhesive-Electrode-Free, Autonomous ECG Acquisition System</i> , pp. 2345-2348.	
Guiot, Caterina	Univ.		Chen, Fred	Massachusetts Inst. of Tech.
			Wu, Henry	Massachusetts Inst. of Tech.
10:30-12:00	FrBPo06.12		Hsu, Pei-Lan	Massachusetts Inst. of Tech.
<i>Design of an Energy Harvesting Conditioning Unit for Hearing Aids</i> , pp. 2310-2313.			Stronger, Brad	Massachusetts Inst. of Tech.
Lay-Ekuakille, Aime'	Univ. of Salento		Sheridan, Robert	Shriner's Hospital for Children Boston
Vendramin, Giuseppe	Univ. of Salento		Ma, Hongshen	Massachusetts Inst. of Tech.
Trotta, Amerigo	Pol. of Bari			
			10:30-12:00	FrBPo07.7
10:30-12:00	FrBPo06.13		<i>Empirical Evaluation of Zero-Admin Authentication for Vital Sensors in Body Area Networks</i> , pp. 2349-2352.	
<i>A Nonenzymatic Biosensor Based on Copper Nanoparticles Modified Electrode for Detection of Acetylcholine</i> , pp. 2314-2317.			Kuroda, Masahiro	National Inst. of Information and Communications
Jabbari, Ali	K. N. Toosi Univ. of Tech.			NICT
Heli, Hossein	Univ. of Tehran		Kohno, Ryuji	C&N Inc.
Hajjizadeh, Maryam	KNT		Tamura, Yasuhiro	Yokohama City Univ.
Moosavi-Movahedi, Ali A	Univ. of Tehran		Tochikubo, Osamu	
10:30-12:00	FrBPo06.14		10:30-12:00	FrBPo07.8
<i>A Method for Bioimpedance Measure with Four and Two-Electrode Sensor Systems</i> , pp. 2318-2321.			<i>Data Acquisition System Using Six Degree-Of-Freedom Inertia Sensor and ZigBee Wireless Link for Fall Detection and Prevention</i> , pp. 2353-2356.	
Yufera, Alberto	CSIC		Dinh, Anh	Univ. of Saskatchewan
Rueda, Adoracion	CSIC			
			10:30-12:00	FrBPo07.9
10:30-12:00	FrBPo06.15		<i>Human Computer Interaction Using Hand Gesture</i> , pp. 2357-2360.	
<i>Physiological Effects of RF Exposure on Hypersensitive People by a Cell Phone</i> , pp. 2322-2325.			Wan, Silas	Univ. of Tech. Sydney
Kim, Deok Won	Yonsei Univ. Coll. of Medicine		Nguyen, Hung T.	Univ. of Tech. Sydney
Lee, Ju Hyung	Yonsei Univ.			
Ji, Hyo Chul	Coll. of Medicine, Yonsei Univ.			
Kim, Soo chan	Hankyong National Univ.			
Nam, Ki Chang	Korea Electrotechnology Res. Inst.			
Cha, Eun Jong	Chungbuk National Univ.			
<b>FrBPo07</b>	Exhibit Hall C			
<b>Sensor Technologies and Systems Enabling Smart Homes</b>				
(Poster Session)				
10:30-12:00	FrBPo07.1		10:30-12:00	FrBPo07.11
<i>System for Unconstrained ECG Measurement on a Toilet Seat Using Capacitive Coupled Electrodes: The Efficacy and Practicality</i> , pp. 2326-2328.			<i>3D Electrode Localization on Wireless Sensor Networks for Wearable BCI</i> , pp. 2365-2368.	
Baek, Hyun Jae	Seoul National Univ.		Mendes, Paulo M.	Univ. of Minho
Kim, Jung Soo	Seoul National Univ.		Figueiredo, Celso	Univ. of Minho
Kim, Ko Keun	Seoul National Univ.		Hoffmann, Klaus-Peter	Fraunhofer Inst.
Park, Kwang S.	Seoul National Univ.		Dias, Nuno S.	Univ. of Minho
10:30-12:00	FrBPo07.2		10:30-12:00	FrBPo07.12
<i>Unconstrained Monitoring of ECG and Respiratory Variation in Infants with Underwear During Sleep Using a Bed-Sheet Electrode Unit</i> , pp. 2329-2332.			<i>ISANLA: Intelligent Sensor and Actuator Network for Life Science Applications</i> , pp. 2369-2372.	
Ueno, Akinori	Tokyo Denki Univ.		Schloesser, Mario	Res. Centre Juelich
Yama, Yoshihiro	Tokyo Denki Univ.		Schnitzer, Andreas	Res. Centre Juelich
			Ying, Hong	Res. Centre Juelich
			Schiek, Michael	Res. Centre Juelich
10:30-12:00	FrBPo07.3		10:30-12:00	FrBPo07.13
<i>A Basic Study for Automatic Waist Circumference Measurement Using Magnet with Waist Belt to Assist Obese Management in Daily Life</i> , pp. 2333-2336.			<i>Embedded Instrumentation for Skin Admittance Measurement</i> , pp. 2373-2376.	
Jang, Yongwon	Electronics & Telecom Res. Inst.		Tronstad, Christian	National Hospital of Norway
Shin, Seungchul	ETRI		Martinsen, Rrjan G	Univ. of Oslo
Kim, Seunghwan	Electronics & Telecom Res. Inst.		Grimnes, Sverre	The National Hospital of Norway
10:30-12:00	FrBPo07.4		10:30-12:00	FrBPo07.14
<i>Autonomous Gain Verification Algorithm for a Dual Mode Digital Hearing Aid Chip</i> , pp. 2337-2340.			<i>Basic Study on Indoor Location Estimation Using Visible Light Communication Platform</i> , pp. 2377-2380.	
Kim, Sunyoung	KAIST		Liu, Xiaohan	Niigata Univ.
Yan, Long	KAIST		Makino, Hideo	Niigata Univ.
Kim, Minsu	KAIST		Maeda, Yoshinobu	Niigata Univ.
Joonsung, Bae	KAIST			
Yoo, Hoi-Jun	KAIST			

10:30-12:00	FrBPo07.15	10:30-12:00	FrBPo08.7
<i>Fabrication and Characterization of Microwave Immunosensors Based on Organic Semiconductors with Nanogold-Labeled Antibody</i> , pp. 2381-2384.		<i>Using an in Silico Liver to Evaluate a Hepatic Enzyme Induction Mechanism</i> , pp. 2415-2418.	
Li, Feng	Univ. of Wisconsin - Milwaukee	Hunt, C. Anthony	Univ. of California
Klemer, David	Univ. of Wisconsin - Milwaukee	Ropella, Glen	Tempus Dictum, Inc.
Kimani, John	Univ. of Wisconsin - Milwaukee		
Mao, Shun	Univ. of Wisconsin - Milwaukee	10:30-12:00	FrBPo08.8
Chen, Junhong	Univ. of Wisconsin - Milwaukee	<i>Tissue-Specific RMA Models to Incrementally Normalize Affymetrix GeneChip Data</i> , pp. 2419-2422.	
Steeber, Douglas	Univ. of Wisconsin - Milwaukee	Eschrich, Steven	H. Lee Moffitt Cancer Center and Res. Inst.
		Hoerter, Andrew	H. Lee Moffitt Cancer Center & Res. Inst.
		Bloom, Greg	H. Lee Moffitt Cancer Center & Res. Inst.
		Fenstermacher, David	H. Lee Moffitt Cancer Center
10:30-12:00	FrBPo07.16	10:30-12:00	FrBPo08.9
<i>In Vitro Magnetic Stimulation of Unmyelinated Nerves</i> , pp. 2385-2388.		<i>An Interactive Visualization Tool and Data Model for Experimental Design in Systems Biology</i> , pp. 2423-2426.	
Basham, Eric	Univ. of California, Santa Cruz	Kapoor, Shray	Georgia Inst. of Tech.
Liu, Wentai	Univ. of California, Santa Cruz	Quo, Chang Feng	Georgia Inst. of Tech.
Yang, Zhi	Univ. of California, Santa Cruz	Moffitt, Richard A.	Georgia Inst. of Tech.
		Merrill, Alfred	Georgia Inst. of Tech.
		Wang, May Dongmei	Georgia Tech. and Emory Univ.
10:30-12:00	FrBPo07.17	10:30-12:00	FrBPo08.10
<i>A Low-Power, Low-Noise Neural-Signal Amplifier Circuit in 90-Nm CMOS</i> , pp. 2389-2392.		<i>Interactive Reference Descriptions of Cellular Electrophysiology Models</i> , pp. 2427-2430.	
Zarifi, Mohammad Hossein	Univ. of Tabriz	Nickerson, David Phillip	National Univ. of Singapore
Frounchi, Javad	Univ. of Tabriz	Buist, Martin Lindsay	National Univ. of Singapore
Farshchi, Shahin	Univ. of California, Los Angeles		
Judy, Jack	UCLA		
10:30-12:00	FrBPo07.18	<b>FrBPo09</b>	Exhibit Hall C
<i>Development of a Microcontrolled Bioinstrumentation System for Active Control of Leg Prostheses</i> , pp. 2393-2396.		<b>Cardiovascular and Respiratory Systems (Poster Session)</b>	
Delis, Alberto	Univ. de Brasilia	10:30-12:00	FrBPo09.1
da Rocha, Adson F.	Univ. of Brasilia	<i>Portable Sensor Based Dynamic Estimation of Human Oxygen Uptake Via Nonlinear Multivariable Modeling</i> , pp. 2431-2434.	
dos Santos, Icaro	Univ. of Brasilia	Su, Steven Weidong	Univ. of Tech. Sydney
Sene Jr, Iwens G.	Catholic Univ. of Goiás	Celler, Branko George	Univ. of New South Wales
Salomoni, Sauro	Univ. de Brasilia	Savkin, Andrey	Univ. of New South Wales
Borges, Geovany Araujo	Univ. of Brasilia	Nguyen, Hung T.	Univ. of Tech. Sydney
		Cheng, Teddy Man Lai	The Univ. of New South Wales
		Guo, Ying	CSIRO
		Wang, Lu	Univ. of New South Wales
10:30-12:00	FrBPo07.19	10:30-12:00	FrBPo09.2
<i>Real-Time Signal Processing of Accelerometer Data for Wearable Medical Patient Monitoring Devices</i> , pp. 2397-2400.		<i>Oesophageal Techniques for Deriving the Lung Dynamics of Quietly Breathing Sheep</i> , pp. 2435-2438.	
Van Wieringen, Matt	UOIT	Koumoundouros, Emmanuel	The Univ. of Melbourne
Eklund, J. Mikael	Univ. of Ontario Inst. of Tech.	Snibson, Ken	The Univ. of Melbourne
		Mareels, Iven	Melbourne Univ. Australia
		10:30-12:00	FrBPo09.3
		<i>Characterization of Inspiratory Flow Limitation During Sleep with an Exponential Model</i> , pp. 2439-2442.	
		Morgenstern, Christian	Univ. Pol. de Catalunya (UPC)
		Jané, Raimon	Univ. Pol. de Catalunya
		Schwaibold, Matthias	MCC-Med GmbH & Co KG
		Randerath, Winfried	Klinikum Bethanien
		10:30-12:00	FrBPo09.4
		<i>Impulse Oscillometric Features of Lung Function: Towards Computer-Aided Classification of Respiratory Diseases in Children</i> , pp. 2443-2446.	
		Meraz, Erika	Univ. of Texas at El Paso
		Nazeran, Homayoun	The Univ. of Texas at El Paso
		Goldman, Michael David	Univ. of California Los Angeles
		Nava, Patricia A.	Univ. of Texas at El Paso
		Diong, Bill	Texas Christian Univ.
		10:30-12:00	FrBPo09.5
		<i>High Frequency Chest Compression Effects on Cardio-Respiratory Interaction</i> , pp. 2447-2450.	
		Lee, Jongwon	Univ. OF MINNESOTA
		Lee, Yong Wan	Univ. of Minnesota
		Warwick, Warren J.	Univ. of Minnesota
<b>FrBPo08</b>	Exhibit Hall C		
<b>Algorithms and Tools for Translational Research (Poster Session)</b>			
10:30-12:00	FrBPo08.1		
<i>Maximum Likelihood Methods in Biology Revisited with Tools of Computational Intelligence</i> , pp. 2401-2404.			
Seiffert, John	Missouri Univ. of Science and Tech.		
Wunsch, Donald	Univ. of Missouri - Rolla		
10:30-12:00	FrBPo08.2		
<i>New DNA Representations in Tandem Repeats Detection*</i> .			
Pop, Petre	Tech. Univ. of Cluj Napoca		
10:30-12:00	FrBPo08.3		
<i>Detecting Trunk Motion Changes Due to Pregnancy Using Pattern Recognition Techniques</i> , pp. 2405-2408.			
Gilleard, Wendy Lynne	Southern Cross Univ.		
Lai, Tze Huei, Daniel	Victoria Univ.		
Levinger, Pazit	La Trobe Univ.		
Begg, Rezaul	Victoria Univ.		
10:30-12:00	FrBPo08.4		
<i>Improvement of Touch Sensitivity by Pressing</i> , pp. 2409-2414.			
Jeong, Hie-yong	Osaka Univ.		
Higashimori, Mitsuru	Osaka Univ.		
Kaneko, Makoto	Osaka Univ.		
10:30-12:00	FrBPo08.5		
<i>Adaptive Phased Array Processing for Automatic Spike Sorting*</i> .			
Huang, Yikun	Montana State Univ.		
10:30-12:00	FrBPo08.6		
<i>Modified Phased Array Method for Spike Sorting*</i> .			
Huang, Yikun	Montana State Univ.		

10:30-12:00	FrBPo09.6	10:30-12:00	FrBPo10.9
<i>The Benefit of Stretching Along the Artery</i> , pp. 2451-2452.		<i>Control of an Unstable Load Using Visual Feedback</i> , pp. 2489-2492.	
Lin Wang, Yuh-Ying	National Taiwan Normal Univ.	Ludvig, Daniel	McGill Univ.
Chen, Yu-Hua	National Taiwan Normal Univ.	Zhao, Yong	McGill Univ.
Guo, Da-Jing	National Taiwan Normal Univ.	Kearney, Robert Edward	McGill Univ.
Lin, Chun-Chih	National Taiwan Normal Univ.		
Wei-Kung, Wang	Acad. Sinica		
10:30-12:00	FrBPo09.7		
<i>A Study on Characteristics of Radial Arteries through Ultrasonic Waves</i> , pp. 2453-2456.			
Lee, Yu Jung	Korea Inst. of Oriental Medicine		
Lee, Jeon	Korea Inst. of Oriental Medicine		
Kim, Jong Yeol	Korea Inst. of Oriental Medicine		
<b>FrBPo10</b>	Exhibit Hall C	<b>FrBPo11</b>	Exhibit Hall C
<b>Neural Dynamics and Computation (Poster Session)</b>		<b>Endoscopy and Drug Delivery (Poster Session)</b>	
10:30-12:00	FrBPo10.1	10:30-12:00	FrBPo11.1
<i>Stochastic Resonance Can Induce Oscillation in a Recurrent Hodgkin-Huxley Neuron Model with Added Gaussian Noise</i> , pp. 2457-2460.		<i>The Proposal of the Locomotive System for Capsule Endoscopes</i> , pp. 2493-2496.	
Mino, Hiroyuki	Kanto Gakuin Univ.	Watada, Masaya	Musashi Inst. of Tech.
Durand, Dominique	Case Western Res. Univ.	Ozawa, Ken-ichi	Musashi Inst. of Tech.
10:30-12:00	FrBPo10.2	10:30-12:00	FrBPo11.2
<i>Inhibitory Chemical Coupling of Electronic Morris-Lecar Neuron Model and Its Bifurcation Analysis</i> , pp. 2461-2464.		<i>Interventional Procedure Based on Nanorobots Propelled and Steered by Flagellated Magnetotactic Bacteria for Direct Targeting of Tumors in the Human Body</i> , pp. 2497-2500.	
Xue, Liang	school of electrical and automation eng. tianjin Univ.	Martel, Sylvain	Ec. Pol. de Montreal
		Felfoul, Ouajdi	École Pol. de Montréal
Wang, Jiang	Tianjin Univ.	Mohammadi, Mahmood	École Pol. de Montréal
Deng, Bin	Tianjin Univ.	Mathieu, Jean-Baptiste	Ec. Pol. de Montreal
Dong, Feng	tianjin Univ.		
10:30-12:00	FrBPo10.3	10:30-12:00	FrBPo11.3
<i>Comparison of Electrically-Evoked Ganglion Cell Responses in Normal and Degenerate Retina</i> , pp. 2465-2468.		<i>A Novel Endoscopic Delivery System for Placement of a Duodenal-jejunal Implant for the Treatment of Obesity and Type 2 Diabetes</i> , pp. 2501-2503.	
Ye, Jang Hee	Chungbuk National Univ. Medical Sch	Fishman, Ezra	GI Dynamics, Inc.
Goo, Yong Sook	Chungbuk National Univ. Medical Sch	Levine, Andy	GI Dynamics, Inc.
Kim, Kyung Hwan	Yonsei Univ.	Melanson, David	GI Dynamics, Inc.
10:30-12:00	FrBPo10.4	Lamport, Ronald	GI Dynamics
<i>Nonparametric Modeling of Single Neuron</i> , pp. 2469-2472.		10:30-12:00	FrBPo11.4
Lu, Ude	Univ. of Southern California	<i>Thermal Effect of Sonophoresis for Accelerating the Analgesic Effect of Local Anesthetics on Rat Tail Nerve</i> , pp. 2504-2507.	
Song, Dong	Univ. of Southern California	Wu, Yi-Hui	National Taiwan Univ.
Berger, Theodore	Univ. of Southern California	Chen, Wen-Shiang	National Taiwan Univ. Hospital
10:30-12:00	FrBPo10.5	Luh, Jer-Junn	National Taiwan Univ.
<i>An Integrative Multiscale Modeling Approach for the Study of Tinnitus Decompensation Neural Correlates</i> , pp. 2473-2476.		Chong, Fok-Ching	National Taiwan Univ.
Trenado, Carlos	Saarland Univ. Hospital		
Haab, Lars	Saarland Univ. Hospital	10:30-12:00	FrBPo11.5
Strauss, Daniel J.	Computational Diagnostics & Biocybernetics Unit	<i>Development of CMTD (Curved Multi-Tubed Device) -System III and Its Application to the Needle-Insertion for Liver</i> , pp. 2508-2513.	
10:30-12:00	FrBPo10.6	Furusho, Junji	Osaka Univ.
<i>Effects of an Improved Auditory-Periphery Model on the Response Properties of Modeled Neurons in the Dorsal Cochlear Nucleus</i> , pp. 2477-2480.		Kobayashi, Hiroshi	Osaka Univ.
Vetsis, Stephen	McMaster Univ.	Kikuchi, Takehito	Osaka Univ.
Zheng, Xiaohan	Boston Univ.	Yamamoto, Tatsuro	Osaka Univ.
Voigt, Herbert	Boston Univ.	Tanaka, Hidekazu	Osaka Univ.
Bruce, Ian Christopher	McMaster Univ.	Terayama, Motokazu	Osaka Univ.
10:30-12:00	FrBPo10.7	Monden, Morito	Osaka Univ.
<i>Fixed Threshold Modeling of an Adjustable Threshold Integrate-And-Fire Neuronal Model</i> , pp. 2481-2484.		10:30-12:00	FrBPo11.6
Seydnejad, Saeid	Univ. of Ottawa Heart Inst.	<i>Breath-Figure Polymer Films with Local Microporosity Controlled Via Spatio-Thermal Templating</i> , pp. 2514-2517.	
10:30-12:00	FrBPo10.8	Campbell, Paul	Univ. of Dundee
<i>Global Synchronization of N Neurons in External Electrical Stimulation Via Active Control</i> , pp. 2485-2488.		Mullan, Matthew	Univ. of Dundee
Li, Huiyan	Department of Automation, Tianjin Univ. of Tech. ed		
Zhang, Rhonghua	Electrical and Automation Tianjin Univ.	<b>FrBPo12</b>	Exhibit Hall C
Wang, Jiang	Tianjin Univ.	<b>Advanced Ultrasound Methods in Diagnostics and Therapy (Poster Session)</b>	
Deng, Bin	Tianjin Univ.	10:30-12:00	FrBPo12.1
Dong, Feng	tianjin Univ.	<i>40-MHz Ultrasound Imaging with Chirps and Annular Arrays (I)</i> , pp. 2518-2521.	
		Mamou, Jonathan	Riverside Res. Inst.
		Aristizabal, Orlando	Riverside Res. Inst.
		Silverman, Ronald	Riverside Res. Inst.
		Ketterling, Jeffrey A.	Riverside Res. Inst.
		10:30-12:00	FrBPo12.1
		<i>Focused Ultrasound Thermal Therapy System with Ultrasound Image Guidance and Temperature Measurement Feedback</i> , pp. 2522-2525.	
		Lin, Kao-Han	National Taiwan Univ.
		Young, Sun-Yi	National Taiwan Univ.
		Hsu, Ming-Chuan	National Taiwan Univ.
		Chan, Hsu	National Health Res. Inst.
		Chen, Yung-Yaw	National Taiwan Univ.
		Lin, Win-Li	National Taiwan Univ.

10:30-12:00	FrBPo12.2
<i>Ultrasound Beam Propagation Using the Hybrid Angular Spectrum Method</i> , pp. 2526-2529.	
Vyas, Urvi	Univ. of Utah
Christensen, Douglas	Univ. of Utah
10:30-12:00	FrBPo12.3
<i>A Novel 100 Watt High Intensity Focused Ultrasound Driving System</i> , pp. 2530-2533.	
Steines, David	The George Washington Univ.
Eom, Kie	George Washington Univ.
Manuccia, Thomas	George Washington Univ.
Zderic, Vesna	The George Washington Univ.
10:30-12:00	FrBPo12.4
<i>A Rapid Three-Dimensional High Intensity Focused Ultrasound Beam Plotting</i> , pp. 2534-2537.	
Ho, Cheng-Shiao	Univ. of Washington
Sullivan, Joseph	Univ. of Washington
Vaezy, Shahram	Univ. of Washington
10:30-12:00	FrBPo12.5
<i>FFT-Based Computation of the Bioheat Transfer Equation for the HCC Ultrasound Surgery Therapy Modeling</i> , pp. 2538-2541.	
Dillenseger, Jean-Louis	Univ. de Rennes 1
Esneault, Simon	INSERM U642, Rennes, F-35000, France; Univ. de Rennes 1, LT
Garnier, Carole	Univ. de Rennes1
10:30-12:00	FrBPo12.6
<i>High Frequency Echocardiography Study of Adult Zebrafish Heart Regeneration (I)*</i> .	
Sun, Lei	HK Pol.
Lien, Ching-Ling	Childrens Hospital Los Angeles and Univ. of Southern California
Wu, Qiong	Childrens Hospital Los Angeles and Univ. of Southern California
Shung, K. Kirk	Univ. of Southern California
10:30-12:00	FrBPo12.8
<i>Dual Apodization with Cross-Correlation in the Presence of Noise and Phase Aberration (I)</i> , pp. 2542-2545.	
Yen, Jesse	Univ. of Southern California
Seo, Chi Hyung	Univ. of Southern California

**FrBPo13** Exhibit Hall C  
**Image Analysis in Telehealth (Poster Session)**

10:30-12:00	FrBPo13.1
<i>Spatiotemporal Human Facial Expression Recognition Using Fisher Independent Component Analysis and Hidden Markov Model</i> , pp. 2546-2549.	
Lee, Jee Jun	Kyung Hee Univ.
Uddin, Md. Zia	Kyung Hee Univ.
Kim, Tae-Seong	Kyung Hee Univ.
10:30-12:00	FrBPo13.2
<i>The Use of Computer Vision Techniques to Augment Home Based Sensorised Environments</i> , pp. 2550-2553.	
Uhrikova, Zdenka	Czech Tech. Univ. in Prague
Nugent, Chris	Univ. of Ulster
Hlaváč, Václav	Faculty of Electrical Engineering, Czech Tech. Univ. in
10:30-12:00	FrBPo13.3
<i>Fall Detection Using Multiple Cameras</i> , pp. 2554-2557.	
Auvinet, Edouard	Univ. de Montréal
Reveret Lionel, Reveret	INRIA Rhone-Alpes
St-Arnaud, Alain	Centre de santé de santé et de services sociaux Lucille-Teasdale
Rousseau, Jacqueline	Univ. de Montréal
Meunier, Jean	Univ. de Montreal
10:30-12:00	FrBPo13.4
<i>Towards Fish-Eye Camera Based In-Home Activity Assessment</i> , pp. 2558-2561.	
Bas, Erhan	Oregon Health and Science Univ.
Erdogmus, Deniz	Oregon Health and Science Univ.
Ozertem, Umut	O.H.S.U.
Pavel, Michael	Oregon Health and Science Univ.

**FrBPo14** Exhibit Hall C  
**Time Frequency Analysis Posters (Poster Session)**

10:30-12:00	FrBPo14.1
<i>Anisotropic Median-Diffusion for Filtering Noisy Electrocardiogram Signals</i> , pp. 2562-2565.	
Melo, Marco	Univ. de São Paulo USP
Kim, Hae Yong	Univ. de São Paulo
Nicolosi, Denys	Inst. Dante Pazzanese de Cardiologia
10:30-12:00	FrBPo14.2
<i>EEG and HRV Markers of Sleepiness and Loss of Control During Car Driving</i> , pp. 2566-2569.	
Michail, Emmanouil	Aristotle Univ. of Thessaloniki
Athina, Kokonozi	Aristotle Univ. of Thessaloniki
Chouvarda, Ioanna	Aristotle Univ.
Maglaveras, Nikolaos	Aristotle Univ. of Thessaloniki
10:30-12:00	FrBPo14.3
<i>Differences in Evoked EEG by Transcranial Magnetic Stimulation at Various Stimulus Points on the Head</i> , pp. 2570-2573.	
Iwahashi, Masakuni	Kyushu Univ.
Ueno, Shoogo	Kyushu Univ.
Iramina, Keiji	Kyushu Univ. Japan
10:30-12:00	FrBPo14.4
<i>Comparison of Maximum Cross-Correlation Coefficient between Blood Pressure and Heart Rate with Traditional Index Associated with Baroreflex Sensitivity</i> , pp. 2574-2577.	
Sugita, Norihiro	Tohoku Univ.
Yoshizawa, Makoto	Tohoku Univ.
Abe, Makoto	Tohoku Univ.
Tanaka, Akira	Fukushima Univ.
Yambe, Tomoyuki	Tohoku Univ.
10:30-12:00	FrBPo14.5
<i>Automated Respiratory Phase and Onset Detection Using Only Chest Sound Signal</i> , pp. 2578-2581.	
Yildirim, Isa	Univ. of Illinois at Chicago
Moussavi, Zahra	Univ. of Manitoba
Ansari, Rashid	Univ. OF ILLINOIS AT CHICAGO
10:30-12:00	FrBPo14.6
<i>Lung Sound Analysis for Wheeze Episode Detection</i> , pp. 2582-2585.	
Jain, Abhishek	PHILIPS Electronics India Ltd.
Vepa, Jithendra	Philips Res. Asia - Bangalore
10:30-12:00	FrBPo14.7
<i>A Fast Discrete S-Transform for Biomedical Signal Processing</i> , pp. 2586-2589.	
Brown, Robert	Univ. of Calgary
Frayne, Richard	Univ. of Calgary/Foothills Med Cr
10:30-12:00	FrBPo14.8
<i>Feature Extraction of Speech Signals in Emotion Identification</i> , pp. 2590-2593.	
Morales, Mauricio	Univ. Tecnológica de Pereira
Echeverry-Correa, Julian David	Univ. Tecnológica de Pereira
Orozco, Alvaro	Univ. Tecnológica de Pereira
Castellanos-Dominguez, Germán	Univ. Nacional de Colombia, sede Manizales
10:30-12:00	FrBPo14.9
<i>Algorithm for Automatic Beat Detection of Cardiovascular Pressure Signals</i> , pp. 2594-2597.	
Beattie, Zachary Todd	Oregon Health & Science Univ.
10:30-12:00	FrBPo14.10
<i>Gender Differences in Muscle Fatigue of the Biceps Brachii and Influences of Female Menstrual Cycle in Electromyography Variables</i> , pp. 2598-2601.	
Salomoni, Sauro	Univ. de Brasília
Soares, Fabiano	Pol. di Torino
Nascimento, Francisco A. de O. da Rocha, Adson F.	Univ. of Brasília
	Univ. of Brasília

10:30-12:00	FrBPo14.11	10:30-12:00	FrBPo15.5
<i>Detection of Sleep Disordered Breathing by Automated ECG Analysis</i> , pp. 2602-2605.		<i>A Cluster Analysis of Neuronal Activity in the Dorsal Premotor Cortical Area for Neuroprosthetic Control</i> , pp. 2638-2641.	
Canisius, Sebastian	Philipps-Univ. Marburg - Faculty Human Medicine	Ye, Nong	Arizona State Univ.
Ploch, Thomas	Philipps-Univ. Marburg - Faculty Human Medicine	Roontiva, Auttawat	Arizona State Univ.
Gross, Volker	Philipps-Univ. Marburg - Faculty Human Medicine	He, Jiping	Arizona State Univ.
Jerrentrup, Andreas	Philipps-Univ. Marburg - Faculty Human Medicine		
Penzel, Thomas	Charite Univ. Hospital		
Kesper, Karl	Hospital of Philipps-Univ.		
10:30-12:00	FrBPo14.12		
<i>Connectivity Estimation of Three Parametric Methods on Simulated Electroencephalogram Signals</i> , pp. 2606-2609.			
Vélez-Pérez, Hugo	Nancy Univ.		
Louis-Dorr, Valerie	Nancy-Univ.		
Ranta, Radu	Nancy-Univ.		
Dufaut, Michel	Ensem Nancy		
10:30-12:00	FrBPo14.13		
<i>An Application of Both Principal Dynamic Modes (PDM) and Statistics for Rehabilitation Estimation Related to the Patients after Ischemic Brain Stroke</i> , pp. 2610-2613.			
Tkacz, Ewaryst	Silesian Univ. of Tech. Inst. of Electronics		
Kostka, Pawel Stanislaw	Silesian Univ. of Tech.		
Komorowski, Dariusz,	Silesian Univ. of Tech. Inst. of Electronics		
Waldemar			
10:30-12:00	FrBPo14.14		
<i>Cardiovascular Response to Acute Stress in Freely Moving Rats: Time-Frequency Analysis</i> , pp. 2614-2617.			
Loncar-Turukalo, Tatjana	Faculty of Tech. Sciences, Univ. of Novi Sad		
Bajic, Dragana	Univ. of Novi Sad		
Japundzic-Zigon, Nina	Univ. of Belgrade		
<b>FrBPo15</b>	Exhibit Hall C		
<b>EEG Signal Classification (Poster Session)</b>			
10:30-12:00	FrBPo15.1		
<i>Performance Prediction Using EEG and Trial-Invariant Characteristic Signals</i> , pp. 2622-2625.			
Varnavas, Andreas	Imperial Coll. London		
Petrou, Maria	Imperial Coll.		
10:30-12:00	FrBPo15.1		
<i>Semi-Blind Identification of Movement-Related Magnetoencephalogram Components Using a Classification Approach</i> , pp. 2618-2621.			
Hesse, Christian	F.C. Donders Centre		
Heskes, Tom	Radboud Univ. Nijmegen		
Jensen, Ole	Radboud Univ. Nijmegen		
10:30-12:00	FrBPo15.2		
<i>Neural Time-Series Prediction Preprocessing Meets Common Spatial Patterns in a Brain-Computer Interface</i> , pp. 2626-2629.			
Coyle, Damien	Univ. of Ulster		
Satti, Abdul Rehman	Univ. of Ulster		
Prasad, Girijesh	Univ. of Ulster		
McGinnity, T. Martin	Univ. of Ulster		
10:30-12:00	FrBPo15.3		
<i>Adaptive Filtering of Ballistocardiogram Artifact from EEG Signals Using the Dilated Discrete Hermite Transform</i> , pp. 2630-2633.			
Mahadevan, Anandi	Univ. of Akron		
Acharya, Soumyadipta	Johns Hopkins Univ.		
Mugler, Dale	Univ. of Akron		
10:30-12:00	FrBPo15.4		
<i>Comparison of Filtering and Classification Techniques of Electroencephalography for Brain-Computer Interface</i> , pp. 2634-2637.			
Renfrew, Mark	Case Western Res. Univ.		
Cheng, Roger	Louis Stokes Cleveland Department of Veterans Affairs Medical Ce		
Daly, Janis J.	Case Western Res. Univ.		
Cavusoglu, M. Cenk	Case Western Res. Univ.		
		<b>FrCT1</b>	Ballroom A
		<b>EMBS-LEOS Joint Symposium: Novel Nanophotonics Technologies for Biosensing (Minisymposium)</b>	
		Organizer: Li, Xingde	Univ. of Washington
		Organizer: Ilev, Ilko	FDA
		14:00-14:15	FrCT1.1
		<i>High-Throughput in Vivo Genetic and Drug Screening Using Femtosecond Laser Nano-Surgery, and Microfluidics (I)</i> , pp. 2642-2642.	
		Yanik, Mehmet Fatih	MIT
		14:30-14:45	FrCT1.3
		<i>Optical Biochemical Sensors by Direct-Writing of Nanostructured Recognition Elements (I)*.</i>	
		Mohamad, Hajj-Hassan	McGill
		Gonzalez, Timothy	McGill
		Ghafer-Zadeh, Ebrahim	McGill
		Chodavarapu, Vamsy	McGill Univ.
		Andrews, Mark	Mcgill
		15:00-15:15	FrCT1.5
		<i>Applications of Optical Resonance to Biological Imaging and Label-Free Protein Microarrays (I)</i> , pp. 2643-2643.	
		Unlu, Selim	Boston Univ.
		<b>FrCT2</b>	Ballroom B
		<b>Multivariate Signal Analysis (Oral Session)</b>	
		14:00-14:15	FrCT2.1
		<i>Harmonics Tracking of Intracranial and Arterial Blood Pressure Waves</i> , pp. 2644-2647.	
		Shahsavari, Sima	Chalmers Univ. of Tech.
		McKelvey, Tomas	Chalmers Univ. of Tech.
		14:15-14:30	FrCT2.2
		<i>Multiharmonic Tracking Using Sigma-Point Kalman Filter</i> , pp. 2648-2652.	
		Kim, Sunghan	Portland State Univ.
		Paul, Anindya S	Oregon Health and Science Univ.
		Wan, Eric	Oregon Health & Science Univ. OGI School of Science and En
		McNames, James	Portland State Univ.
		14:30-14:45	FrCT2.3
		<i>Linear and Nonlinear Analysis of Autonomic Regulation in Depressed Patients</i> , pp. 2653-2656.	
		Voss, Andreas	Univ. of Applied Sciences Jena
		Schulz, Steffen	Univ. of Applied Sciences Jena
		Koschke, Mandy	Friedrich-Schiller-Univ. of Jena
		Bär, Karl-Jürgen	Friedrich-Schiller-Univ. of Jena
		14:45-15:00	FrCT2.4
		<i>Quantifying the Similarity of Multiple Multi-Dimensional Point Processes with Application to Early Diagnosis of Alzheimer's Disease from EEG</i> , pp. 2657-2660.	
		Dauwels, Justin	MIT
		Weber, Theophane	MIT
		Vialatte, Francois	RIKEN Brian Science Inst.
		Cichocki, Andrzej	BSI RIKEN
		15:00-15:15	FrCT2.5
		<i>Use of Piecewise Stationary Segmentation As a Pre-Treatment for Synchronization Measures</i> , pp. 2661-2664.	
		Terrien, Jeremy	Reykjavik Univ.
		Hassan, Mahmoud	UTC-France
		Marque, Catherine	Univ. of Tech. of compiegne
		Karlsson, Brynjar	Reykjavik Univ.
		15:15-15:30	FrCT2.6
		<i>Automatic Detection and Classification of Sleep Stages by Multichannel EEG Signal Modeling</i> , pp. 2665-2668.	
		Zhovna, Inna	Ben Gurion Univ.
		Shallom, Ilan	Ben Gurion Univ.

FrCT3	Ballroom C		
<b>Wavelets (Oral Session)</b>			
14:00-14:15	FrCT3.1		
<i>The Effect of Artifact Correction on Spectral Estimates of Heart Rate Variability</i> , pp. 2669-2672.			
Peters, Christiaan Hendrik Leonard	Amphia Hospital		
Vullings, Rik	Eindhoven Univ. of Tech.		
Bergmans, Johannes Wilhelmus Maria	Eindhoven Univ. of Tech.		
Oei, S. Guid	Maxima Medisch Centrum, Veldhoven		
Wijn, Pieter	Máxima Medical Center		
14:15-14:30	FrCT3.2		
<i>FPGA-Core Defibrillator Using Wavelet-Fuzzy ECG Arrhythmia Classification</i> , pp. 2673-2676.			
Nambakhsh, Mohammad Saleh	Tehran Univ. of medical sciences		
Tavakoli, Vahid	Univ. of tehran		
Sahba, Nima	Tehran Univ. of Medical Science		
14:30-14:45	FrCT3.3		
<i>A Wavelet Denoising Approach for Signal Action Isolation in the Ear Canal</i> , pp. 2677-2680.			
Vaidyanathan, Ravi	Univ. of Bristol		
Wang, Shouyan	Univ. of Southampton		
Gupta, Lalit	Southern Illinois Univ.		
14:45-15:00	FrCT3.4		
<i>Quantification Method Using the Morlet Wavelet for Magnetic Resonance Spectroscopic Signals with Macromolecular Contamination</i> , pp. 2681-2684.			
Suvichakorn, Aimamorn	Univ. Catholique de Louvain		
Ratiney, Helene	Univ. Claude Bernard LYON1, CPE		
Bucur, Adriana	Univ. de Lyon		
Cavassila, Sophie	Univ. Lyon; Univ. Lyon 1		
Antoine, Jean-Pierre	Univ. catholique de Louvain		
15:00-15:15	FrCT3.5		
<i>Optimized Shift-invariant Wavelet Packet Feature Extraction for Electroencephalographic Evoked Responses</i> , pp. 2685-2688.			
Harris, Arief R.	Univ. of Saarland		
Schwerdtfeger, Karsten	Saarland Univ. Hospital		
Strauss, Daniel J.	Computational Diagnostics & Biocybernetics Unit		
15:15-15:30	FrCT3.6		
<i>Frequency Interpretation of Tidal Peak in Intracranial Pressure Wave</i> , pp. 2689-2692.			
Shahsavari, Sima	Chalmers Univ. of Tech.		
McKelvey, Tomas	Chalmers Univ. of Tech.		
<b>FrCT4</b>		<b>Room 11 &amp; 12</b>	
<b>X-Ray Imaging Experimental Design and Data Processing (Oral Session)</b>			
14:00-14:15	FrCT4.1		
<i>Microangiography System for Investigation of Metabolic Syndrome in Rat Model Using Synchrotron Radiation</i> , pp. 2693-2696.			
Umetani, Keiji	Synchrotron Radiation Res. Inst.		
Fukushima, Kazuhito	National Cardiovascular Center		
14:15-14:30	FrCT4.2		
<i>Analysis of CR Dose Reduction in Pediatric Patients, Based on Computer-Simulated Noise Addition</i> , pp. 2697-2700.			
Juste, Belen	Pol. Univ. of Valencia		
Villaescusa, Nacho	hospital La Fe		
Tortosa, Ricardo	Hospital Unievrstario la Fe		
Miró, Rafael	Pol. Univ. of Valencia		
Verdú, Gumersindo	Pol. Univ. of Valencia		
14:30-14:45	FrCT4.3		
<i>Analytic Noise-Propagation in Indirect Fan-Beam FBP Reconstruction</i> , pp. 2701-2704.			
Borsdorf, Anja	Friedrich-Alexander Univ. Erlangen-Nuremberg		
Kappler, Steffen	Siemens AG		
Raupach, Rainer	Siemens AG		
Hornegger, Joachim	Friedrich-Alexander Univ. Erlangen-Nuremberg		
14:45-15:00			FrCT4.4
<i>Evaluation of the Impact of Tube Current Modulation on Lesion Detectability Using Model Observers</i> , pp. 2705-2708.			
Wunderlich, Adam			Univ. of Utah
Noo, Frederic			Univ. of Utah
15:00-15:15			FrCT4.5
<i>3D Weighting in Cone Beam Image Reconstruction Algorithms: Ray-Driven vs. Pixel-Driven</i> , pp. 2709-2712.			
Tang, Xiangyang			GE Healthcare
Nilsen, Roy			GE Healthcare
Smolin, Alex			GE Healthcare
Lifland, Ilya			GE Healthcare
Samsonov, Dmitry			GE Healthcare
Taha, Basel			GE Healthcare
15:15-15:30			FrCT4.6
<i>Evaluation of Image Noise in Fan-Beam X-Ray Computed Tomography</i> , pp. 2713-2716.			
Wunderlich, Adam			Univ. of Utah
Noo, Frederic			Univ. of Utah
<b>FrCT5</b>		<b>Room 1</b>	
<b>Tomographic Reconstruction (Oral Session)</b>			
14:00-14:15	FrCT5.1		
<i>Reconstruction of Real Tomographic Data Using Algebraic Methods</i> , pp. 2717-2720.			
Gendron, David	École Pol. de Montréal		
Goussard, Yves	École Pol. de Montréal		
Beaudoin, Gilles	Univ. de Montreal		
Soulez, Gilles	Univ. de Montreal		
Cloutier, Guy	Lab. of Biorheology and Medical Ultrasonics		
14:15-14:30	FrCT5.2		
<i>Electrical Impedance Tomography Reconstruction Using L1 Norms for Data and Image Terms</i> , pp. 2721-2724.			
Dai, Tao	Carleton Univ.		
Adler, Andy	Carleton Univ.		
14:30-14:45	FrCT5.3		
<i>Improved 2-D Vector Field Reconstruction Using Virtual Sensors and the Radon Transform</i> , pp. 2725-2728.			
Giannakidis, Archontis	Univ. of Surrey		
Kotoulas, Leonidas	Univ. of Surrey		
Petrou, Maria	Imperial Coll.		
14:45-15:00	FrCT5.4		
<i>Novel Gibbs Priors Based Positron Emission Tomography Reconstruction*</i> .			
Ma, Jianhua	Southern Medical Univ.		
Chen, Wufan	Southern Medical Univ.		
Huang, Jing	Southern Medical Univ.		
Chen, Yang	School of Biomedical Engineering, Southern Medical Univ.		
15:00-15:15	FrCT5.5		
<i>A Systematic Performance Analysis of the Simultaneous Algebraic Reconstruction Technique (SART) for Limited Angle Tomography</i> , pp. 2729-2732.			
Van de Sompel, Dominique	Univ. of Oxford		
Brady, Michael	Univ. of Oxford		
15:15-15:30	FrCT5.6		
<i>Penalized-Likelihood Reconstruction for Metal Artifact Reduction in Cone-Beam CT</i> , pp. 2733-2736.			
Aootaphao, Sorapong	King Mongkut's Inst. of Tech. Ladkrabang (KMITL)		
Pintavirooj, Chuchart	King Mongkut Inst. of Tech. Ladkrabang		
Sotthivirat, Saowapak	National Electronics and Computer Tech. Center		

**FrCT6** Room 2 & 3  
**Nano and Micro-Technologies for Measurement (Oral Session)**

- 14:00-14:15 FrCT6.1  
*Valveless Acoustic Standing Wave Micropump for Biomedical Applications: A Numerical Study*, pp. 2737-2740.  
Nabavi, Majid Concordia Univ.  
Siddiqui, Kamran Concordia Univ.  
Dargahi, Javad Concordia Univ.
- 14:15-14:30 FrCT6.2  
*From Spikes to EEG: Integrated Multichannel and Selective Acquisition of Neuropotentials*, pp. 2741-2744.  
Mollazadeh, Mohsen Johns Hopkins Univ.  
Murari, Kartikeya Johns Hopkins Univ.  
Cauwenberghs, Gert Univ. of California San Diego  
Thakor, Nitish Johns Hopkins Univ.
- 14:30-14:45 FrCT6.3  
*On-Chip Chemical Stimulation of Neurons by Local and Controlled Release of Neurotransmitter*, pp. 2745-2748.  
Mernier, Guillaume IMEC  
Braeken, Dries IMEC  
Jans, Danny IMEC  
Eberle, Wolfgang IMEC  
Callewaert, Geert KU Leuven Campus Kortrijk  
Bartic, Carmen IMEC  
Borghs, Gustaaf IMEC
- 14:45-15:00 FrCT6.4  
*Three-Dimensional Printing Membranes for Integrated Microfluidics\**.  
Pan, Tingrui Univ. of California
- 15:00-15:15 FrCT6.5  
*Multipurpose DVD Pick-Up Scanner for Analysis of Microfluidics and Micromechanical Structures*, pp. 2749-2751.  
Yim, Vit Sogang Univ. in Korea  
Lee, Seung-Yop Sogang Univ.  
Kim, Sookyung Nanostorage Inc.  
Park, Jungyul Sogang Univ.
- 15:15-15:30 FrCT6.6  
*High Throughput Microfluidic Cell Array for Cytotoxicity Screening*, pp. 2752-2755.  
Wang, Zhanhui Shenzhen Inst. of Advanced Tech. Chinese Acad.

**FrCT7** Room 8 & 15  
**Functional Neuromuscular Stimulation (Oral Session)**

- 14:00-14:15 FrCT7.1  
*Electrical Muscle Stimulation for Deep Stabilizing Muscles in Abdominal Wall*, pp. 2756-2759.  
Coghlan, Simon Unversity Coll. Dublin  
Crowe, Louis Univ. Coll. Dublin  
McCarthyPersson, Ulrik Univ. Coll. Dublin  
Minogue, Conor M Biomedical Res. Ltd  
Caulfield, Brian UCD
- 14:15-14:30 FrCT7.2  
*Reflex Bladder Activation Via Pudendal Nerve and Intraurethral Stimulation Depends on Stimulation Pattern and Location*, pp. 2760-2763.  
Bruns, Tim M. Case Western Res. Univ.  
Gustafson, Kenneth J. Case Western Res. Univ.  
Bhadra, Narendra Case Western Res. Univ.
- 14:30-14:45 FrCT7.3  
*Design and Testing of an Instrumentation System to Reduce Stimulus Pulse Amplitude Requirements During FES*, pp. 2764-2767.  
Willand, Michael McMaster Univ.  
de Bruin, Hubert McMaster Univ.
- 14:45-15:00 FrCT7.4  
*A Time Domain Finite Element Model of Extracellular Neural Stimulation Predicts That Non-Rectangular Stimulus Waveforms May Offer Safety Benefits*, pp. 2768-2771.  
Troy, John Northwestern Univ.  
Cantrell, Donald Robinson Northwestern Univ.

- 15:00-15:15 FrCT7.5  
*Multi-Taper Transfer Function Estimation for Stimulation Artifact Removal from Neural Recordings*, pp. 2772-2776.  
Chernyy, Nick Pennsylvania State Univ.  
Schiff, Steven Pennsylvania State Univ.  
Gluckman, Bruce Pennsylvania State Univ.

- 15:15-15:30 FrCT7.6  
*Laser Stimulation of the Cavernous Nerves in the Rat Prostate, in Vivo: Optimization of Wavelength, Pulse Energy, and Pulse Repetition Rate*, pp. 2777-2780.  
Fried, Nathaniel Univ. of North Carolina at Charlotte  
Lagoda, Gwen Johns Hopkins Medical Inst.  
Scott, Nicholas Univ. of North Carolina at Charlotte  
Su, Li-Ming Johns Hopkins Medical Inst.  
Burnett, Arthur Johns Hopkins Medical Inst.

**FrCT8** Room 19 & 20  
**Heart Rate Variability (Oral Session)**

- 14:00-14:15 FrCT8.1  
*Characterizing Nonlinear Heartbeat Dynamics within a Point Process Framework*, pp. 2781-2784.  
Chen, Zhe Massachusetts General Hospital, Harvard Medical School
- Brown, Emery N MGH-Harvard Medical School-MIT  
Barbieri, Riccardo MGH-Harvard Medical School-MIT
- 14:15-14:30 FrCT8.2  
*A Robust Control Design for Heart Rate Tracking During Exercise*, pp. 2785-2788.  
Cheng, Teddy Man Lai The Univ. of New South Wales  
Savkin, Andrey Univ. of New South Wales  
Su, Steven Weidong Univ. of Tech. Sydney  
Celler, Branko George Univ. of New South Wales  
Wang, Lu Univ. of New South Wales
- 14:30-14:45 FrCT8.3  
*Real-Time Monitoring of Spontaneous Resonance in Heart Rate Variability*, pp. 2789-2792.  
Jovanov, Emil Univ. of Alabama in Huntsville
- 14:45-15:00 FrCT8.4  
*Time-Frequency Analysis of Cardiac and Respiratory Parameters for the Prediction of Ventilator Weaning*, pp. 2793-2796.  
Orini, Michele Univ. of Zaragoza  
Giraldo, Beatriz Univ. Politècnica de Catalunya (UPC)  
Bailon, Raquel Univ. of Zaragoza  
Vallverdu, Montserrat Tech. Univ. of Catalonia  
Mainardi, Luca Pol. di Milano  
Benito, Salvador Hospital de la Santa Creu i Sant Pau  
Diaz, Ivan Hospital de la Santa Creu i Sant Pau  
Caminal, Pere Tech. Univ. of Catalonia (UPC)
- 15:00-15:15 FrCT8.5  
*Detecting the Temporal Extent of the Impulse Response Function from Intra-Partum Cardiotocography for Normal and Hypoxic Fetuses*, pp. 2797-2800.  
Warrick, Philip A. McGill Univ.  
Hamilton, Emily McGill Univ.  
Precup, Doina McGill Univ.  
Kearney, Robert Edward McGill Univ.
- 15:15-15:30 FrCT8.6  
*A Comparison of Fetal and Neonatal Heart Rate Variability at Similar Post-Menstrual Ages*, pp. 2801-2804.  
Padhye, Nikhil The Univ. of Texas Health Science Center at Houston  
Verklan, Terese The Univ. of Texas Health Science Center at Houston  
Univ. of Houston  
Williams, Amber The Univ. of Texas Health Science Center at Houston  
Baylor Univ. Medical Center at Dallas  
The Univ. of Texas Medical School at Houston



FrCT9	Room 10
<b>Clinical Technology Safety and Efficacy (Oral Session)</b>	
14:00-14:15	FrCT9.1
<i>The Equivalent Magnetizing Method Applied to the Design of Gradient Coils for MRI</i> , pp. 2805-2808.	
Sanchez Lopez, Hector	The Univ. of Queensland
Liu, Feng	The Univ. of Queensland
Crozier, Stuart	The Univ. of Queensland
14:15-14:30	FrCT9.2
<i>Radiation Effects in Interventional Radiology Using Biological and Physical Dosimetry Methods: A Case-Control Study</i> , pp. 2809-2812.	
Ramos, Miguel	Pol. Univ. of Valencia
Montoro, Alegria	Hospital Unievrstario la Fe
Almonacid, Miguel	Hospital Unievrstario la Fe
Ferrer, Silvia	Pol. Univ. of Valencia
Barquiner, Joan Francesc	Autonomous Univ. od Barcelona
Tortosa, Ricardo	Hospital Unievrstario la Fe
Verdu, Gumersindo	Pol. Univ. of Valencia
Rodriguez, Pilar	UAB
Barrios, Leonard	UAB
Villaescusa, Nacho	hospital La Fe
14:30-14:45	FrCT9.3
<i>Comparison and Evaluation of Leakage Flux on Various Types of Dental Magnetic Attachment</i> , pp. 2813-2816.	
Nishida, Minako	The Univ. of Tokushima
Tegawa, Yoshinori	The Univ. of Tokushima
Kinouchi, Yohsuke	The Univ. of Tokushima
14:45-15:00	FrCT9.4
<i>Anatomically Realistic Reference Models of Pregnant Women for Gestation Ages of 13, 18, and 26 Weeks</i> , pp. 2817-2820.	
Nagaoka, Tomoaki	National Inst. Info & Comm Tech.
Saito, Kazuyuki	Chiba Univ.
Takahashi, Masaharu	Chiba Univ.
Ito, Koichi	Chiba Univ.
Watanabe, Soichi	Nat'l Inst. of Information & Comms Tech.
15:00-15:15	FrCT9.5
<i>E-Field Errors Associated with RF Dosimeters for RF Human Exposure Assessment in Urban Environments</i> , pp. 2821-2824.	
Bahillo, Alfonso	CEDETEL (Center for the Development of Telecommunications)
Blas, Juan	CEDETEL (Center for the Development of Telecommunications)
Fernández, Patricia	Univ. of Valladolid
Mazuelas, Santiago	CEDETEL (Center for the Development of Telecommunications)
Viñuela, Álvaro	CEDETEL (Center for the Development of Telecommunications)
Lorenzo, Rubén Mateo	Univ. of Valladolid
Abril, Evaristo José	Univ. of Valladolid
15:15-15:30	FrCT9.6
<i>Research and Development of a Portable Device to Quantify Muscle Tone in Patients with Parkinsons Disease</i> , pp. 2825-2827.	
Wright, David	Akita Res. Inst. for Brain and Blood Vessels
Nakamura, Kazuhiro	Akita Res. Inst. for Brain and Blood Vessels
Maeda, Tetsuya	Akita Res. Inst. for Brain and Blood Vessels
Kutsuzawa, Keiichi	AKITA R&D Center
Miyawaki, Kazuto	AKITA R&D CENTER
Nagata, Ken	Akita Res. Inst. for Brain and Blood Vessels

FrCT10	Room 18
<b>Smart Sensors for Fall Detection in the Elderly (Minisymposium)</b>	
Organizer: Noury, Norbert Univ. Joseph Fourier Grenoble	
14:00-14:15	FrCT10.1
<i>Preliminary Investigation into the Use of Autonomous Fall Detectors (I)</i> , pp. 2828-2831.	
Noury, Norbert	Univ. Joseph Fourier Grenoble
Galay, Armelle	Sud Isere Tele alarme
Pasquier, Jacques	Sud Isere Tele alarme
Balussaud, Marc	BSE

14:15-14:30	FrCT10.2
<i>Fall-Detection through Vertical Velocity Thresholding Using a Tri-Axial Accelerometer Characterized Using an Optical Motion-Capture System (I)</i> , pp. 2832-2835.	
Bourke, Alan	Univ. of Limerick
O'Donovan, Karol	Intel Corp.
Nelson, John	Univ. of Limerick
ÓLaighin, Gearóid	National Univ. of Ireland, Galway
14:30-14:45	FrCT10.3
<i>The Design and Development of a Long-Term Fall Detection System Incorporated into a Custom Vest for the Elderly. (I)</i> , pp. 2836-2839.	
Bourke, Alan	Univ. of Limerick
van de Ven, Pepijn	Univ. of Limerick
Chaya, Amy E	Univ. of Pittsburgh School of Engineering
ÓLaighin, Gearóid	National Univ. of Ireland, Galway
Nelson, John	Univ. of Limerick
14:45-15:00	FrCT10.4
<i>A Wearable Triaxial Accelerometry System for Longitudinal Assessment of Falls Risk (I)</i> , pp. 2840-2843.	
Narayanan, Michael Ravi	Univ. of New South Wales
Scalzi, Maria Elena	Pol. di Milano
Redmond, Stephen James	Univ. of New South Wales
Lord, Stephen	Univ. of New South Wales
Celler, Branko George	Univ. of New South Wales
Lovell, Nigel H	Univ. of New South Wales
15:00-15:15	FrCT10.5
<i>Testing of a Long-Term Fall Detection System Incorporated into a Custom Vest for the Elderly. (I)</i> , pp. 2844-2847.	
Bourke, Alan	Univ. of Limerick
van de Ven, Pepijn	Univ. of Limerick
Chaya, Amy E	Univ. of Pittsburgh School of Engineering
ÓLaighin, Gearóid	National Univ. of Ireland, Galway
Nelson, John	Univ. of Limerick

FrCT11	Room 16
<b>Biosignals in Telehealth (Oral Session)</b>	
14:00-14:15	FrCT11.1
<i>Predicting Respiratory Instability in the ICU</i> , pp. 2848-2851.	
Ennett, Colleen M.	Philips Res. North America
Lee, K. P.	Philips Res.
Eshelman, Larry J	Philips Res.
Gross, Brian	Philips Healthcare
Nielsen, Larry	Philips Healthcare
Frassica, Joseph	Philips Healthcare
Saeed, Mohammed	MIT
14:15-14:30	FrCT11.2
<i>Dynamic Biosignal Management and Transmission During Telemedicine Incidents Handled by Mobile Units Over Diverse Network Types</i> , pp. 2852-2856.	
Mandellos, George	Univ. of Patras
Koutelakis, George	Univ. of Patras
Panagiotakopoulos, Theodor	Univ. of Patras
Koukias, Andreas	Univ. of Patras
Koukias, Mixalis	Univ. of Patras
Lymberopoulos, Dimitrios	Univ. of Patras
14:30-14:45	FrCT11.3
<i>Diagnostic Quality Driven Physiological Data Collection for Personal Healthcare</i> , pp. 2857-2860.	
Jea, David	Univ. of California, Los Angeles
Balani, Rahul	Univ. of California at Los Angeles
Hsu, Ju-Lan	Univ. of California at Los Angeles
Cho, Dae-Ki	Univ. of California, Los Angeles
Gerla, Mario	UCLA
Srivastava, Mani	UCLA
14:45-15:00	FrCT11.4
<i>An Ontology-Based Approach Facilitating Unified Querying of Biosignals and Patient Records</i> , pp. 2861-2864.	
Kokkinaki, Alexandra	Aristotle Univ. of Thessaloniki
Chouvarda, Ioanna	Aristotle Univ.
Maglaveras, Nikolaos	Aristotle Univ. of Thessaloniki

15:00-15:15	FrCT11.5	15:30-17:00	FrDPo01.2
<i>Exploiting the Existence of Temporal Heart-Rate Patterns for the Detection of Trauma-Induced Hemorrhage</i> , pp. 2865-2868.		<i>Classification of Temporomandibular Disorder from Electromyography Signals Via Directed Transfer Functions</i> , pp. 2904-2907.	
Chen, Liangyou	U.S. Army Medical Res. and Materiel Command	Sanei, Saeid	Cardiff Univ.
Gribok, Andrei	U.S. Army Medical Res. and Materiel Command	Latif, Rhonira	cardiff school of engineering
Reisner, Andrew	Massachusetts General Hospital	Shave, Ceri	Cardiff Univ.
Reifman, Jaques	U.S. Army Medical Res.	Carter, Eric	Cardiff School of Engineering
15:15-15:30	FrCT11.6	15:30-17:00	FrDPo01.3
<i>ECG Quality Measures in Telecare Monitoring</i> , pp. 2869-2872.		<i>Non-Invasive Distress Evaluation in Preterm Newborn Infants</i> , pp. 2908-2911.	
Redmond, Stephen James	Univ. of New South Wales	Manfredi, Claudia	Univ. degli Studi di Firenze
Lovell, Nigel H	Univ. of New South Wales	Bocchi, Leonardo	Univ. degli Studi di Firenze, Firenze, Italy
Basilakis, Jim	Univ. of NSW	Orlandi, Silvia	Univ. degli Studi di Firenze
Celler, Branko George	Univ. of New South Wales	Calisti, Marcello	Univ. degli Studi di Firenze
<b>FrCT12</b> Room 17		Spaccaterra, Loredana	AOU A. Meyer-Univ. degli Studi di Firenze
<b>BME Education (Oral Session)</b>		Donzelli, Gianpaolo	AOU A. Meyer-Univ. degli Studi di Firenze
14:00-14:15	FrCT12.1	15:30-17:00	FrDPo01.4
<i>Project Alexander the Great: A Study on the World Proliferation of Bioengineering/Biomedical Engineering Education</i> , pp. 2873-2876.		<i>Predicting the Length of Stay for Neonates Using Heart-Rate Markov Models</i> , pp. 2912-2915.	
Abu-Faraj, Ziad	American Univ. of Science & Tech.	Jeremic, Aleksandar	McMaster Univ.
14:15-14:30	FrCT12.2	Tan, Kenneth	McMaster Univ.
<i>Assessing Learning Progress and Quality of Teaching in Large Groups of Students</i> , pp. 2877-2880.		<b>FrDPo02</b> Exhibit Hall C	
Reumann, Matthias	IBM T. J. Watson Res. Center	<b>Wavelets Posters (Poster Session)</b>	
Mohr, Matthias B	Siemens AG	15:30-17:00	FrDPo02.1
Diez, Anke	Univ. Karlsruhe (TH)	<i>Spectral Analysis on the Microcirculatory Laser Doppler Signal of the Acupuncture Effect</i> , pp. 2916-2919.	
Doessel, Olaf	Univ. of Karlsruhe	Hsin, Hsiu	Yuan Ze Univ.
14:30-14:45	FrCT12.3	Wei-Chen, Hsu	Taipei City Hospital
<i>Women in Biomedical Engineering and Health Informatics and Its Impact on Gender Representation for Accepted Publications at IEEE EMBC 2007</i> , pp. 2881-2884.		Chia-Liang, Hsu	Yuan Ze Univ.
McGregor, Carolyn	Univ. of Ontario Inst. of Tech.	Shih-Min, Huang	Yuan Ze Univ.
Smith, Kathleen P.	Univ. of Ontario Inst. of Tech.	Tse-Lin, Hsu	Acad. Sinica
Percival, Jennifer	Univ. of Ontario Inst. of Tech.	Yuh-Ying, Wang Lin	National Taiwan Normal Univ.
14:45-15:00	FrCT12.4	15:30-17:00	FrDPo02.2
<i>How to Prepare Engineers in Medicine and Biology?</i> , pp. 2885-2888.		<i>ECG QRS Complex Detection with Programmable Hardware</i> , pp. 2920-2923.	
Kwok, Ezra	Univ. of British Columbia	leong, Chio In	Univ. of Macau
Marshall, Greg	BCIT	Vai, Mang I.	Univ. of Macau
Chan, Anthony Y.K.	British Columbia Inst. of Tech.	Mak, Peng Un	Univ. of Macau
15:00-15:15	FrCT12.5	15:30-17:00	FrDPo02.3
<i>Innovations for Clinical Trials Informatics</i> , pp. 2889-2892.		<i>Wavelet Entropy Characterization of Elevated Intracranial Pressure</i> , pp. 2924-2927.	
Summers, Ronald	Loughborough Univ.	Xu, Peng	Univ. of California, Los Angeles
Vyas, Hiten	Loughborough Univ.	Scalzo, Fabien	Geffen School of Medicine
Dudhal, Nilesh	Loughborough Univ.	Bergsneider, Marvin	Univ. of California, Los Angeles
Doherty, Neil	Loughborough Univ.	Vespa, Paul	Univ. of California, Los Angeles
Coombs, Crispin	Loughborough Univ.	Chad, Miller	Univ. of California, Los Angeles
Hepworth, Mark	Loughborough Univ.	Hu, Xiao	Univ. of California, Los Angeles
15:15-15:30	FrCT12.6	15:30-17:00	FrDPo02.4
<i>Professional Ethics in Biomedical Engineering Practice and Research</i> , pp. 2893-2896.		<i>Detection and Classification of Raw Action Potential Patterns in Human Muscle Sympathetic Nerve Activity</i> , pp. 2928-2931.	
Monzon, Jorge E.	Univ. Nacional del Nordeste	Salmanpour, Aryan	The Univ. of Western Ontario
Monzon-Wyngaard, Alvaro	Univ. Nacional del Nordeste	Brown, Lyndon	the Univ. of Western Ontario
<b>FrCT13</b> Room 9		Shoemaker, Kevin	the Univ. of Western Ontario
<b>Open Access to Scientific Publications: Who Wins and Who Loses? (Minisymposium)</b>		15:30-17:00	FrDPo02.5
14:00-15:30	FrCT13.1	<i>Performance Analysis of Stationary and Discrete Wavelet Transform for Action Potential Detection from Sympathetic Nerve Recordings in Humans</i> , pp. 2932-2935.	
<i>Open Access to Biomedical Engineering Publications (I)</i> , pp. 2897-2899.		Salmanpour, Aryan	The Univ. of Western Ontario
Flexman, Jennifer A.	British Columbia Cancer Agency	Brown, Lyndon	the Univ. of Western Ontario
<b>FrDPo01</b> Exhibit Hall C		Shoemaker, Kevin	the Univ. of Western Ontario
<b>Multivariate Signal Analysis Posters (Poster Session)</b>		15:30-17:00	FrDPo02.6
15:30-17:00	FrDPo01.1	<i>A Method for the Determination and Hardware Validation of Biosignal Processing Parameters</i> , pp. 2936-2939.	
<i>Classification of Low-Level Finger Contraction from Single Channel Surface EMG</i> , pp. 2900-2903.		Elena, Mar	Univ. of Seville
Singh, Vijay Pal	RMIT Univ.	Blasco, Silvia	Univ. of Seville
Kant Kumar, Dinesh	RMIT Univ.	Quero, Jose M.	Univ. de Sevilla

15:30-17:00 FrDPo02.7  
*Quantifying Cardio-Pulmonary Correlations Using the Cross-Wavelet Transform: Validating a Correlative Method*, pp. 2940-2943.  
 Petrock, Anne Marie NJ Neuroscience Inst.  
 Donnelly, Diane L. JFK Medical Center  
 Rosenberg, Michael L. Seton Hall Univ. School of Graduate Medical Education

15:30-17:00 FrDPo02.8  
*Wavelet Approach to Artifact Noise Removal from Capacitive Coupled Electrocardiograph*, pp. 2944-2947.  
 Lee, Seung Min Seoul National Univ.  
 Kim, Ko Keun Seoul National Univ.  
 Park, Kwang S. Seoul National Univ.

15:30-17:00 FrDPo02.9  
*Compression of Electromyographic Signals Using Image Compression Techniques*, pp. 2948-2951.  
 Costa, Marcus Vinicius Chaffim Univ. of Brasilia  
 Berger, Pedro Univ. de Brasilia  
 da Rocha, Adson F. Univ. of Brasilia  
 Carvalho, João Luiz Azevedo de Univ. of Southern California  
 Nascimento, Francisco A. de O. Univ. of Brasilia

15:30-17:00 FrDPo02.10  
*An Improved Method for 2-D ECG Compression Based on SPIHT Algorithm*, pp. 2952-2955.  
 Nayebi, Somayeh Tarbiat Modares Univ.  
 MiranBeigi, Mohammad Hosein Tarbiat Modares Univ.  
 Motie Nasrabadi, Ali shahed Univ.

15:30-17:00 FrDPo02.11  
*A Human Auditory Tuning Curves Matched Wavelet Function*, pp. 2956-2959.  
 Abolhassani, Mohammad Djavad Tehran Univ. of Medical Science  
 Salimpour, Yousef Tehran Univ. of Medical Science

15:30-17:00 FrDPo02.12  
*Feature Extraction Based on Time-Frequency and Independent Component Analysis for Improvement of Separation Ability in Atrial Fibrillation Detector*, pp. 2960-2963.  
 Kostka, Pawel Stanislaw Silesian Univ. of Tech.  
 Tkacz, Ewaryst Silesian Univ. of Tech. Inst. of Electronics

**FrDPo03 Exhibit Hall C**  
**Ultrasound Posters (Poster Session)**

15:30-17:00 FrDPo03.1  
*Bone Surface Reconstruction Using Localized Freehand Ultrasound Imaging*, pp. 2964-2967.  
 Lopez Perez, Lucero Diana Univ. Paul Cezanne  
 Lemaitre, Julien Univ. Paul Cezanne  
 Alfiansyah, Agung Univ. Paul Cezanne  
 Bellemare, Marc-Emmanuel LSIS UMR CNRS 6168 - Univ. Paul Cézanne

15:30-17:00 FrDPo03.2  
*Normalization and Backscatter Spectral Analysis of Human Carotid Arterial Data Acquired Using a Clinical Linear Array Ultrasound Imaging System*, pp. 2968-2971.  
 Sareen, Meghna Case Western Res. Univ. Inst. of Technology-De  
 Waters, Kendall Volcano Corp.  
 Nair, Anuja Volcano Corp.  
 Vince, Geoff Volcano Corp.

15:30-17:00 FrDPo03.3  
*Design, Development and Characterization of Cyst Phantom for Ultrasound Elastography Applications*, pp. 2972-2975.  
 Kottary, Kishore Kumar Indian Inst. of Tech. Madras  
 Andrews, Maneesha Indian Inst. of Tech. Madras  
 Venketaraman, Jayashankar Indian Inst. of Tech.  
 Ashok, Ashok Kumar Mishra Indian Inst. of Tech. Madras  
 S, Suresh Mediscan Systems

15:30-17:00 FrDPo03.4  
*Time Delay Estimation of Discrete Samples in Ultrasound Echo Signals*, pp. 2976-2979.  
 Zahiri-Azar, Reza Univ. of British Columbia  
 Salcudean, Septimiu E. Univ. of British Columbia

15:30-17:00 FrDPo03.5  
*Automatic Identification of Lumbar Level with Ultrasound*, pp. 2980-2983.  
 Kerby, Benjamin Eric Univ. of British Columbia  
 Rohling, Robert Univ. of British Columbia  
 Nair, Vishnu Queen's Univ.  
 Abolmaesumi, Purang Queen's Univ.

15:30-17:00 FrDPo03.6  
*Ultrasound Thermal Change Detection Based on Steerable Filters*, pp. 2984-2987.  
 Sahba, Nima Tehran Univ. of Medical Science  
 Tavakoli, Vahid Univ. of tehran  
 Nambakhsh, Mohammad Saleh Tehran Univ. of medical sciences

**FrDPo04 Exhibit Hall C**  
**Colon and Prostate Image Analysis (Poster Session)**

15:30-17:00 FrDPo04.1  
*3D Prostate Segmentation Based on Ellipsoid Fitting, Image Tapering and Warping*, pp. 2988-2991.  
 Mahdavi, Seyedeh Sara Univ. of British Columbia  
 Salcudean, Septimiu E. Univ. of British Columbia

15:30-17:00 FrDPo04.2  
*Automatic 3D Segmentation of Prostate in MRI Combining a Priori Knowledge, Markov Fields and Bayesian Framework*, pp. 2992-2995.  
 Makni, Nasr Inserm U703, Lagis CNRS UMR 8146  
 Puech, Philippe INSERM U703  
 Lopes, Renaud Inserm, U703 and Univ. of Lille1  
 Viard, Romain CHRU Lille  
 Colot, Olivier Lagis CNRS UMR 8146  
 Betrouni, Nacim Inst. de Tech. Médicale

15:30-17:00 FrDPo04.3  
*Colonic Polyp Detection by 3D Directional Shape Features\**.  
 Hasani, Javad Res.  
 Tavakoli, Vahid Univ. of Tehran, Univ. of Louisville  
 Nambakhsh, Mohammad Saleh King's Coll. London  
 Hajizadeh, Siamak Tehran Univ. of Medical Science  
 Samani, Narges Tehran Univ. of Medical Science

15:30-17:00 FrDPo04.4  
*CAD of Colon Cancer on CT Colonography Cases without Cathartic Bowel Preparation*, pp. 2996-2999.  
 Linguraru, Marius George National Inst. of Health  
 Zhao, Shan National Inst. of Health  
 Van Uitert, Robert National Inst. of Health  
 Liu, Jiamin NIH  
 Fletcher, Joel Mayo Clinic  
 Manduca, Armando Mayo Clinic  
 Summers, Ronald National Inst. of Health

15:30-17:00 FrDPo04.5  
*Edge Cross-Section Features for Detection of Appendiceal Orifice Appearance in Colonoscopy Videos*, pp. 3000-3003.  
 Wang, Yi Iowa State Univ.  
 Tavanapong, Wallapak Iowa State Univ.  
 Wong, Johnny S Iowa State Univ.  
 Oh, JungHwan Univ. of North Texas  
 de Groen, Petrus (Piet) Cornelius Mayo Clinic

15:30-17:00 FrDPo04.6  
*Stool Detection in Colonoscopy Videos*, pp. 3004-3007.  
 Hwang, Sae Univ. of North Texas  
 Oh, JungHwan Univ. of North Texas  
 Tavanapong, Wallapak Iowa State Univ.  
 Wong, Johnny S Iowa State Univ.  
 de Groen, Petrus (Piet) Cornelius Mayo Clinic

**FrDPo05** Exhibit Hall C**Image Enhancement and Analysis Using Wavelets (Poster Session)**

15:30-17:00 FrDPo05.1  
*Wavelet Domain Bayesian Method for High Noise Level PET Image Reconstruction*, pp. 3008-3011.

Xie, Lizhe Southeast Univ.  
 Hu, Yining Southeast Univ.  
 Luo, Limin Univ. of Southeast  
 Shu, Huazhong Southeast Univ.

15:30-17:00 FrDPo05.2  
*Detection of Small Bowel Tumors in Capsule Endoscopy Frames Using Texture Analysis Based on the Discrete Wavelet Transform*, pp. 3012-3015.

Barbosa, Daniel Univ. of Minho  
 Ramos, Jaime Hospital dos Capuchos  
 Lima, Carlos Manuel Gregorio Santos Univ. of Minho

15:30-17:00 FrDPo05.3  
*Wavelet Denoising During Optical Coherence Tomography of the Prostate Nerves Using the Complex Wavelet Transform*, pp. 3016-3019.

Chitchian, Shahab Univ. of North Carolina at Charlotte  
 Fiddy, Michael Univ. of North Carolina at Charlotte  
 Fried, Nathaniel Univ. of North Carolina at Charlotte

15:30-17:00 FrDPo05.4  
*Semi Automatic Mri Prostate Segmentation Based on Wavelet Multiscale Products*, pp. 3020-3023.

Flores-Tapia, Daniel Univ. of Manitoba  
 Thomas, Gabriel Univ. of Manitoba  
 Niranjana, Venugopal Univ. of Manitoba  
 McCurdy, Boyd CancerCare Manitoba  
 Pistorius, Stephen CancerCare Manitoba / Univ. of Manitoba

15:30-17:00 FrDPo05.5  
*A Bayesian Wavelet-Based Multidimensional Deconvolution with Sub-Band Emphasis*, pp. 3024-3027.

Zhang, Yingsong Univ. of Cambridge  
 Kingsbury, Nick Univ. of Cambridge

15:30-17:00 FrDPo05.6  
*Measures for the Evaluation of Bias Field Removal Procedures in MRI and the Design of Wavelets for Suppression of RF Inhomogeneities*, pp. 3028-3031.

Karel, Joël Univ. Maastricht  
 Fischer, Kalle Maastricht Univ.  
 Westra, Ronald Univ. Maastricht  
 Peeters, Ralf Univ. Maastricht

**FrDPo06** Exhibit Hall C**Breast Image Segmentation and Classification (Poster Session)**

15:30-17:00 FrDPo06.1  
*A Self Organizing Map Approach to Breast Cancer Detection*, pp. 3032-3035.

Oprea, Alina Elena Pol. Univ. of Bucharest  
 Strungaru, Rodica Pol. Univ. of Bucharest  
 Ungureanu, Mihaela Pol. Univ. of Bucharest

15:30-17:00 FrDPo06.2  
*A Multistage Processing Procedure for 4D Breast MRI Segmentation*, pp. 3036-3039.

Wang, Qi Tsinghua Univ.  
 Ding, Hui Tsinghua Univ.  
 Wang, Guangzhi Tsinghua Univ.

15:30-17:00 FrDPo06.3  
*Edge Intensity Normalization As a Bias Field Correction During Balloon Snake Segmentation of Breast MRI*, pp. 3040-3043.

Hill, Andrew Univ. of Queensland  
 Mehnert, Andrew James Heinrich The Univ. of Queensland  
 Crozier, Stuart The Univ. of Queensland

15:30-17:00 FrDPo06.4  
*Breast Cancer Diagnosis Using Level-Set Statistics and Support Vector Machines*, pp. 3044-3047.

Liu, Jianguo Univ. of North Texas  
 Yuan, Xiaohui Univ. of North Texas  
 Buckles, Bill Univ. of North Texas

15:30-17:00 FrDPo06.5

*A Multi-Classifer and Decision Fusion Framework for Robust Classification of Mammographic Masses*, pp. 3048-3051.

Prasad, Saurabh Mississippi State Univ.  
 Bruce, Lori Mississippi State Univ.  
 Ball, John Naval Surface Warfare Center Dahlgren

15:30-17:00 FrDPo06.6  
*Automatic Breast Cancer Grading of Histopathological Images*, pp. 3052-3055.

Dalle, Jean-Romain National Univ. of Singapore  
 Tutac, Adina Pol. Univ. of Timisoara  
 Leow, Wee Kheng National Univ. of Singapore  
 Daniel, Racoceanu CNRS  
 Putti, Thomas National Univ. Hospital

**FrDPo07** Exhibit Hall C**Image Segmentation Posters (Poster Session)**

15:30-17:00 FrDPo07.1  
*Objective Evaluation of Methods for Border Detection in Dermoscopy Images*, pp. 3056-3059.

Celebi, M. Emre Louisiana State Univ. in Shreveport  
 Schaefer, Gerald Aston Univ.  
 Iyatomi, Hitoshi Hosei Univ.

15:30-17:00 FrDPo07.2  
*Segmentation of Scalp and Skull in Neonatal MR Images Using Probabilistic Atlas and Level Set Method*, pp. 3060-3063.

Ghadimi, Sona Univ. de Picardie Jules Verne  
 Abrishami Moghaddam, Hamid K.N.T. Univ.  
 Kazemi, Kamran Univ. of Picardie Jules Verne  
 Grebe, Reinhard Univ. of Picardie Jules Verne  
 Gondry-Jouet, Catherine Centre Hospitalier Univ. d'Amiens  
 Wallois, Fabrice Univ. of Picardie Jules Verne

15:30-17:00 FrDPo07.3  
*Segmentation and Analysis of the Glomerular Basement Membrane Using the Split and Merge Method*, pp. 3064-3067.

Kamenetsky, Ilya Univ. of Calgary  
 Rangayyan, Raj Univ. of Calgary  
 Benediktsson, Hallgrímur Univ. of Calgary

15:30-17:00 FrDPo07.4  
*Object Contour Extraction in Medical Images by Fast Adaptive B-Snake*, pp. 3068-3071.

Marsousi, Mahdi K.N. Toosi Univ. of Tech.  
 Eftekhari, Armin K.N. Toosi Univ. of Tech.  
 Alirezaie, Javad Ryerson Univ. Univ. of Waterloo

15:30-17:00 FrDPo07.5  
*A New Method Based on Dynamic Programming for Boundary Detection in Ultrasound Image Sequences*, pp. 3072-3074.

Holdfeldt, Peter Chalmers Univ. of Tech.  
 Viberg, Mats Chalmers Univ. of Tech.  
 Gustavsson, Tomas Chalmers Univ. of Tech.

15:30-17:00 FrDPo07.6  
*Segmentation of Leukocytes and Erythrocytes in Blood Smear Images*, pp. 3075-3078.

Bergen, Tobias Fraunhofer Inst. for Integrated Circuits (IIS)  
 Steckhan, Dirk Gunnar Fraunhofer-Inst. for Integrated Circuits IIS  
 Wittenberg, Thomas Fraunhofer Inst. for Integrated Circuits (IIS)  
 Zerfaß, Thorsten Fraunhofer Inst. for Integrated Circuits IIS

15:30-17:00 FrDPo07.7  
*Towards a Framework for Analysis of Biophotonic Images of Mouse Models of Cancer*, pp. 3079-3082.

Kamath, Vidya Univ. of South Florida  
 Goldgof, Dmitry Univ. of South Florida  
 Argilagos, Raul Univ. of South Florida and  
 H. Lee Moffitt Cancer Center and  
 Univ. of South Florida and  
 H. Lee Moffitt Cancer Center and  
 Eschrich, Steven H. Lee Moffitt Cancer Center and Res. Inst.

15:30-17:00	FrDPo07.8		15:30-17:00	FrDPo08.4
<i>Improved Interactive Medical Image Segmentation Using Enhanced Intelligent Scissors (EIS)</i> , pp. 3083-3086.			<i>Pulmonary Tumor Volume Delineation in PET Images Using Deformable Models</i> , pp. 3118-3121.	
Mishra, Akshaya Kumar	Univ. of Waterloo		Kanakatte Gurumurthy, Aparna	Monash Univ.
Wong, Alexander	Univ. of Waterloo		Gubbi, Jayavardhana	The Univ. of Melbourne
Zhang, Wen	Univ. of Waterloo		Srinivasan, Bala	Monash Univ.
Clausi, David Anthony	Univ. of Waterloo		Nallasamy, Mani	Monash Univ.
Fieguth, Paul	Univ. of Waterloo		Tomas, Kron	Peter MacCallum Cancer Centre
15:30-17:00	FrDPo07.10		Binns, David	Peter MacCallum Cancer Centre
<i>MultiSlice Human Organ Extraction Based on GVF</i> , pp. 3087-3090.			Palaniswami, Marimuthu	The Univ. of Melbourne
Ardizzone, Edoardo	Univ. degli studi di Palermo		15:30-17:00	FrDPo08.5
Pirrone, Roberto	Univ. degli studi di Palermo		<i>A New Method Based on Both Fuzzy Set and Possibility Theories for Tumor Volume Segmentation on PET Images</i> , pp. 3122-3125.	
Gambino, Orazio	Univ. degli Studi di Palermo		Dewalle, Anne-Sophie	Univ. des Sciences et Tech. de Lille
Vitabile, Salvatore	Univ. degli Studi di Palermo		Betrouni, Nacim	Inst. de Tech. Médicale
Scarnato, Mirco	Univ. di Palermo		Huglo, Damien	Univ. Hospital of Lille
Galia, Massimo	Univ. degli Studi di Palermo		Rousseau, Jean	INSERM - Univ. de Lille 2
Giuseppe, Lo Re	Univ. degli Studi di Palermo		Vermandel, Maximilien	Univ. de Lille
Midiri, Massimo	Univ. degli Studi di Palermo		Makni, Nasr	Inserm U703, Lagis CNRS UR 8146
15:30-17:00	FrDPo07.11		15:30-17:00	FrDPo08.6
<i>A Mean Shift Based Fuzzy C-Means Algorithm for Image Segmentation</i> , pp. 3091-3094.			<i>Landmarking of Computed Tomographic Images to Assist in Segmentation of Abdominal Tumors Caused by Neuroblastoma</i> , pp. 3126-3129.	
Zhou, Huiyu	Brunel Univ.		Banik, Shantanu	Department of Electrical and Computer Engineering, Schulich Univ. of Calgary
Schaefer, Gerald	Aston Univ.		Rangayyan, Raj	Department of Radiology and Diagnostic Imaging, Alberta Children
15:30-17:00	FrDPo07.12		Boag, Graham S	
<i>Enhancing Watershed Segmentation of Touching and Weakly-Connected Features in Biomedical Images</i> , pp. 3095-3098.			15:30-17:00	FrDPo08.7
Marquez, Jorge Alberto	UNAM-CCADET		<i>A Deformable Model Based System for 3D Analysis and Visualization of Tumor in PET/CT Images</i> , pp. 3130-3133.	
15:30-17:00	FrDPo07.13		Landre, Jerome	Univ. of Reims-Champagne-Ardenne
<i>Semi-Automatic Medical Image Segmentation with Adaptive Local Statistics in Conditional Random Fields Framework</i> , pp. 3099-3102.			Lebonvallet, Stéphane	IUT TROYES
Hu, Yu-Chi	Memorial Sloan-Kettering Cancer Center		Ruan, Su	IUT de Troyes, Univ. de Reims
Grossberg, Michael	City Coll. of New York		Brunotte, Francois	Univ. of Bourgogne
Mageras, Gig	Memorial Sloan-Kettering Cancer Center		Li, Xiaobing	Dalian Univ. of Tech.
15:30-17:00	FrDPo07.14		Qiu, Tianshuang	Dalian Univ. of Tech.
<i>Image Segmentation of Ovitrap for Automatic Counting of Aedes Aegypti Eggs</i> , pp. 3103-3106.				
Mello, Carlos	Univ. of Pernambuco			
dos Santos, Wellington	Univ. de Pernambuco			
Rodrigues, Marco Aurélio Benedetti	Federal Univ. of Pernambuco			
Candeias, Ana Lucia	Federal Univ. of Pernambuco			
Gusmao, Cristine	Univ. of Pernambuco			
<b>FrDPo08</b>	Exhibit Hall C		<b>FrDPo09</b>	Exhibit Hall C
<b>Segmentation and Classification of Cancer (Poster Session)</b>			<b>Segmentation and Analysis of Vasculature (Poster Session)</b>	
15:30-17:00	FrDPo08.1		15:30-17:00	FrDPo09.1
<i>Real-Time Raman Spectroscopy for Noninvasive Skin Cancer Detection -- Preliminary Results</i> , pp. 3107-3109.			<i>Epifluorescence-Based Quantitative Microvasculature Remodeling Using Geodesic Level-Sets and Shape-Based Evolution</i> , pp. 3134-3137.	
Zhao, Jianhua	Univ. of British Columbia		Bunyak, Filiz	Univ. of Missouri Columbia
Lui, Harvey	Univ. of British Columbia		Palaniappan, Kannappan	Univ. of Missouri-Columbia
McLean, David	Univ. of British Columbia		Glinkii, Olga	Univ. of Missouri-Columbia
Zeng, Haishan	BC Cancer Res. Centre		Glinkii, Vladimir	Harvard Univ.
15:30-17:00	FrDPo08.2		Glinksky, Vladislav	Univ. of Missouri-Columbia
<i>Malignant Melanoma Detection by Bag-Of-Features Classification</i> , pp. 3110-3113.			Huxley, Virginia	Univ. of Missouri-Columbia
Situ, Ning	Univ. of Houston		15:30-17:00	FrDPo09.2
Yuan, Xiaojing	Univ. of Houston		<i>Adaptive Segmentation for Vessels Dynamic Characterization Using High Resolution MR Sequences*</i> .	
Chen, Ji	Univ. of Houston		Darwich, Ayham	Univ. of Tech. of Compiegne
Zouridakis, George	Univ. of Houston		Capellino, Stefano	Univ. of Tech. of Compiegne
15:30-17:00	FrDPo08.3		Langevin, François	Compiegne Univ. of Tech.
<i>PASuite: A Preprocessing Algorithm Suite for Cellular and Molecular Image Classification in Cancer Diagnosis and Treatment</i> , pp. 3114-3117.			15:30-17:00	FrDPo09.3
Sharma, Yachna	Georgia Inst. of Tech.		<i>Segmentation of Arterial Vessel Wall Motion to Sub-Pixel Resolution Using M-Mode Ultrasound</i> , pp. 3138-3141.	
Raza, Syed Hussain	Georgia Inst. of Tech.		Fancourt, Craig	Merck & Co.
Kong, Koon Yin	Georgia Inst. of Tech.		Azer, Karim	Merck & Co., Inc
Chaudry, Qaiser	Georgia Inst. of Tech.		Ramcharan, Sharmilee L.	Merck and Co., Inc.
Caldwell, Matthew	Georgia Inst. of Tech.		Bunzel, Michelle	Merck and Co., Inc.
Muller, Susan	Emory Univ.		Campbell, Barry	Merck & Co.
Young, Andrew N	Emory Univ.		Sachs, Jeffrey R.	Merck and Co., Inc.
Chen, Georgia	Emory Univ.		Walker III, Matthew	Merck & Co.
Wang, May Dongmei	Georgia Tech. and Emory Univ.		15:30-17:00	FrDPo09.4
			<i>Estimation of Carotid Diameter with Heartbeat on Longitudinal B-Mode Ultrasonic Images</i> , pp. 3142-3145.	
			Kawamura, Yoko	Gifu Univ.
			Yokota, Yasunari	Gifu Univ.
			Nogata, Fumio	Gifu Univ.

15:30-17:00	FrDPo09.5		15:30-17:00	FrDPo10.8
<i>Automated Detection of the Carotid Artery Wall in B-Mode Ultrasound Images Using Active Contours Initialized by the Hough Transform</i> , pp. 3146-3149.			<i>Characterization of DNA Bio-Bonds for Meso-Scale Self-Assembly</i> , pp. 3178-3181.	
Stoitsis, John	Inst. of Communication		Abbaci, Ahlem	Univ. Paris 6 - CNRS
Golemati, Spyretta	National Tech. Univ. of Athens		Daunay, Bruno	Univ. Paris 6 - CNRS
Kendros, Sotirios	National Tech. Univ. of Athens		Haliyo, D. Sinan	Univ. Paris 6 - CNRS
Nikita, Konstantina	National Tech. Univ. of Athens		Regnier, Stéphane	Univ. Paris 6 - CNRS
15:30-17:00	FrDPo09.6		Boyd, Robert	National Physical Lab. (NPL)
<i>Three-Dimensional Labeling of Vulnerable Regions in Carotid Plaques Using Graph-Cuts</i> , pp. 3150-3153.			Cuenat, Alexandre	National Physical Lab. (NPL)
Seabra, José Carlos	Inst. Superior Técnico, Lisboa		15:30-17:00	FrDPo10.9
Sanches, João	Inst. de Sistemase Robótica		<i>Influence of System Integration and Packaging for a Wireless Neural Interface on Its Wireless Powering Performance</i> , pp. 3182-3185.	
<b>FrDPo10</b>	Exhibit Hall C		Kim, Sohee	Univ. of Utah
<b>Micro-Nano Systems (Poster Session)</b>			Harrison, Reid	Univ. of Utah
15:30-17:00	FrDPo10.1		Solzbacher, Florian	Univ. of Utah
<i>A Neural Amplifier with High Programmable Gain and Tunable Bandwidth</i> , pp. 3154-3157.			15:30-17:00	FrDPo10.10
Perlin, Gayatri, E.	Univ. of Michigan		<i>The Case for a Generic Implant Processor</i> , pp. 3186-3191.	
Sodagar, Amir M.	Univ. of Michigan		Strydis, Christos	Delft Univ. of Tech.
Wise, Kensall	Univ. of Michigan, Ann Arbor		Gaydadjev, Georgi	Delft Univ. of Tech.
15:30-17:00	FrDPo10.2		15:30-17:00	FrDPo10.11
<i>Flexible Polymer Substrate and Tungsten Microelectrode Array for an Implantable Neural Recording System</i> , pp. 3158-3161.			<i>VLSI Architecture of Leading Eigenvector Generation for On-Chip Principal Component Analysis Spike Sorting System</i> , pp. 3192-3195.	
Patrick, Erin	Univ. of Florida		Chen, Tung-Chien	NTU/UCSC
Sankar, Viswanath	Univ. of Florida		Liu, Wentai	Univ. of California, Santa Cruz
Rowe, William	Univ. of Florida		Chen, Liang-Gee	NTU
Yen, Sheng-Feng (Steve)	University of Florida		15:30-17:00	FrDPo10.12
Sanchez, Justin C.	Univ. of Florida		<i>Harmonics-Based Bio-Implantable Telemetry System</i> , pp. 3196-3199.	
Nishida, Toshikazu	Univ. of Florida		Laskovski, Anthony Nikola	Univ. of Newcastle
15:30-17:00	FrDPo10.3		Yuce, Mehmet Rasit	Univ. of Newcastle
<i>A Miniaturized Glucose Biosensor for in Vitro and in Vivo Studies</i> , pp. 3162-3165.			15:30-17:00	FrDPo10.13
Yang, Yang-Li	Chung Yuan Christian Univ.		<i>Development of Flexible Microelectrode Arrays for Recording Cortical Surface Field Potentials</i> , pp. 3200-3203.	
Huang, Jian-Feng	Chung Yuan Christian Univ.		Myllymaa, Sami Aulis	Univ. of Kuopio
Tseng, Ta-Feng	Chung Yuan Christian Univ.		Myllymaa, Katja Maria	Univ. of Kuopio
Lin, Chia-Ching	Chung Yuan Christian Univ.		Korhonen, Hannu	Univ. of Kuopio
Lou, Shyhliang	Chung Yuan Christian Univ.		Gureviciene, Irina	Univ. of Kuopio
15:30-17:00	FrDPo10.4		Djupsund, Kaj	Univ. of Kuopio
<i>Stratum Corneum in Vivo Water Content from TEWL-Measurements</i> , pp. 3166-3169.			Tanila, Heikki	Univ. of Kuopio
Johnsen, Gorm Krogh	Univ. of Oslo		Lappalainen, Reijo	Univ. of Kuopio
Haugnes, Anne Berit	Univ. of Oslo		15:30-17:00	FrDPo10.14
Martinsen, Rrjan G	Univ. of Oslo		<i>Implantable Telemetry Capsule for Monitoring Arterial Oxygen Saturation and Heartbeat</i> , pp. 3204-3207.	
Grimnes, Sverre	The National Hospital of Norway		Kuwana, Kenta	The Univ. of Tokyo
15:30-17:00	FrDPo10.5		Dohi, Tetsuji	The Univ. of Tokyo
<i>Development of a Magnetic Single Cell Micro Array</i> , pp. 3170-3173.			Hashimoto, Yasushi	The Univ. of Tokyo
Liu, William	Univ. of Victoria		Matsumoto, Kiyoshi	The Univ. of Tokyo
Dechev, Nikolai	Univ. of Victoria		Shimoyama, Isao	The Univ. of Tokyo
Lee, Sae-Won	Simon Fraser Univ.		15:30-17:00	FrDPo10.15
Foulds, Ian G	Univ. of Victoria		<i>NO Gas Sensor of PEDOT: PSS Nanowires by Using Direct Patterning DPN</i> , pp. 3208-3211.	
Burke, Robert D.	Univ. of Victoria		Lu, Hui-Hsin	National Taiwan Univ.
Park, Edward J.	Univ. of Victoria		Lin, Chii-Wann	National Taiwan Univ.
Parameswaran, Ash M	Simon Fraser Univ.		Hsiao, Tzu-Chien	National Chiao Tung Univ.
15:30-17:00	FrDPo10.6		15:30-17:00	FrDPo10.16
<i>In Vivo Tests of Switched-Capacitor Neural Stimulation for Use in Minimally-Invasive Wireless Implants*</i> .			<i>Interconnection Technologies for Laser-Patterned Electrode Arrays</i> , pp. 3212-3215.	
Cauler, Lawrence	Univ. of Texas at Dallas		Schuetzler, Martin	Univ. of Freiburg
Lee, Jeong-Bong	Univ. of Texas at Dallas		Henle, Christian	Univ. Freiburg
15:30-17:00	FrDPo10.7		Ordenez, Juan Sebastian	Albert-Ludwigs Univ. Inst. für Mikrosystemtechnik (IMTEK)
<i>Detection of Specific Bioparticles Using Antibodies-Coated Gold Nanoparticles and Dielectrophoretic Impedance Measurement</i> , pp. 3174-3177.			Meier, Wolfgang	Univ. of Freiburg
Huang, Jung-Tang	National Taipei Univ. of Tech.		Guenther, Thomas	Univ. of Freiburg
Yu, Hua-Wei	National Taipei Univ. of Tech.		Stieglitz, Thomas	Univ. of Freiburg
Hou, Shao-Yi	National Taipei Univ. of Tech.		15:30-17:00	FrDPo10.17
Fang, Shih-Bin	Taiwan Adventist Hospital		<i>A Complete Data and Power Telemetry System Utilizing BPSK and LSK Signaling for Biomedical Implants</i> , pp. 3216-3219.	
Lee, Hung-Chan	Mackay Memorial Hospital		Sonkusale, Sameer	Tufts Univ.
Yang, Chu-Zen	Mackay Memorial Hospital		Luo, Zhenying	Tufts Univ.

FrDPo11	Exhibit Hall C
<b>Heart Rate Variability Posters (Poster Session)</b>	
15:30-17:00	FrDPo11.1
<i>Effect of Different Breathing Patterns on Nonlinearity of Heart Rate Variability</i> , pp. 3220-3223.	
Fang, Yong	Fudan Univ.
Sun, Jin-Tao	Fudan Univ.
Li, Cheng	Fudan Univ.
Poon, Chi-Sang	Massachusetts Inst. of Tech.
Wu, Guoqiang	Fudan Univ.
15:30-17:00	FrDPo11.2
<i>Unconstrained Respiration and Heart Rate Monitoring System Based on a PPG Pillow During Sleep</i> , pp. 3224-3226.	
Cha, Ji-Young	Yonsei Univ.
Choi, Hyun Seok	Yonsei Univ.
Shin, Jae-Yeon	Yonsei Univ.
Lee, Kyoung Joung	Yonsei Univ.
15:30-17:00	FrDPo11.3
<i>Characterization of Periodic and Non-Periodic Breathing Pattern in Chronic Heart Failure Patients</i> , pp. 3227-3230.	
Garde, Ainara	Univ. Pol. de Catalunya (UPC)
Giraldo, Beatriz	Univ. Poilitcnica de Catalunya (UPC)
Jané, Raimon	Univ. Pol. de Catalunya
Diaz, Ivan	Hospital de la Santa Creu i Sant Pau
Herrera, Sergio	Hospital de la Santa Creu i Sant Pau
Benito, Salvador	Hospital de la Santa Creu i Sant Pau
Domingo, Maite	Hospital de la Santa Creu i Sant Pau
Bayes-Genis, Antoni	Hospital de la Santa Creu i Sant Pau
<b>FrDPo12</b>	
<b>Robotic and Computer Assisted Surgery (Poster Session)</b>	
15:30-17:00	FrDPo12.1
<i>Comparison of Positioning Methods of a Ferromagnetic Sphere for Magnetic Steering Using 3 T MRI</i> , pp. 3231-3234.	
Han, Byung Hee	Kyung Hee Univ.
Kang, Lae H.	Kyung Hee Univ.
Ha, Yong H.	Kyung Hee Univ.
Cho, Min Hyoung	Kyung Hee Univ.
Lee, Soo Yeol	Kyung Hee Univ.
15:30-17:00	FrDPo12.2
<i>A Framework for Intraoperative Update of 3D Deformable Models in Liver Surgery</i> , pp. 3235-3238.	
Dagon, Benoît	Ec. Pol. Fédérale de Lausanne
Baur, Charles	Ec. Pol. Fédérale de Lausanne
Bettschart, Vincent	Centre Hospitalier Univ. Vaudois
15:30-17:00	FrDPo12.3
<i>Factors Affecting the Learning Curve in Computer Assisted Total Knee Arthroplasty</i> , pp. 3239-3240.	
Sampath, Shameem	The Bluespot Knee Clinic
Voon, South	Fylde Coast Hospital
Davies, Howard	Addenbrookes Hospital
15:30-17:00	FrDPo12.4
<i>Haptic Control with Environment Force Estimation for Telesurgery</i> , pp. 3241-3244.	
Bhattacharjee, Tapomayukh	KAIST
Son, Hyoung Il	KAIST
Lee, Doo Yong	KAIST
15:30-17:00	FrDPo12.5
<i>Efficient Force Feedback Transmission System for Tele Surgery</i> , pp. 3245-3248.	
Natarajan, Sriram	Univ. of Massachusetts, Amherst
Ganz, Aura	Univ. of Massachusetts, Amherst
15:30-17:00	FrDPo12.6
<i>Epidural Insertion Simulator of Higher Insertion Resistance &amp; Drop Rate after Puncture</i> , pp. 3249-3252.	
Naemura, Kiyoshi	Tokyo Univ. of Tech.

15:30-17:00	FrDPo12.7
<i>Simulation of Organ Deformation Using Boundary Element Method and Meshless Shape Matching</i> , pp. 3253-3256.	
Zhu, Bo	Shanghai Jiaotong Univ.
Gu, Lixu	Shanghai Jiaotong Univ.
Zhang, Jingsi	Shanghai Jiaotong Univ.
Yan, Zhennan	Shanghai Jiao Tong Univ.
Pan, Lei	Shanghai Jiaotong Univ.
Zhao, Qiang	Shanghai Zhongshan Hospital, Fudan Univ.
15:30-17:00	FrDPo12.8
<i>Rapid Motion Compensation for Prostate Biopsy Using GPU</i> , pp. 3257-3260.	
Shen, Feimo	Eigen LLC
Narayanan, Ramkrishnan	Eigen LLC
Suri, Jasjit S	Eigen LLC
15:30-17:00	FrDPo12.9
<i>Motion Prediction for Tracking the Beating Heart</i> , pp. 3261-3264.	
Richa, Rogério	Univ. Montpellier 2
Bó, António P. L.	LIRMM
Poignet, Philippe	LIRMM, UMR CNRS 5506, Univ. of Montpellier II
15:30-17:00	FrDPo12.10
<i>Control of Fracture Reduction Robot Using Force/Torque Measurement</i> , pp. 3265-3268.	
Douke, Takehito	the Unversity of Tokyo
Nakajima, Yoshikazu	The Univ. of Tokyo
Mori, Yasumoto	the Univ. of Tokyo
15:30-17:00	FrDPo12.11
<i>A Navigation System of Cerebral Endovascular Surgery Integrating Multiple Space-Guiding Trackers</i> , pp. 3269-3272.	
Lee, Jiann-Der	Chang Gung Univ.
15:30-17:00	FrDPo12.12
<i>Highly Articulated Robotic Probe for Minimally Invasive Surgery (I)</i> , pp. 3273-3276.	
Degani, Amir	Carnegie Mellon Univ.
Choset, Howie	Carnegie Mellon
Zubiate, Brett	Cardiorobotics, Inc.
Ota, Takeyoshi	Univ. of Pittsburgh
Zenati, Marco	Univ. of Pittsburgh Medical Center
<b>FrDPo13</b>	
<b>Clinical Technology Safety and Efficacy Posters (Poster Session)</b>	
15:30-17:00	FrDPo13.1
<i>Development of Thermal Model in a Child and Its Application to Dosimetry Due to RF Whole-Body Exposures</i> , pp. 3277-3280.	
Hirata, Akimasa	Nagoya Inst. of Tech.
Asano, Takayuki	Nagoya Inst. of Tech.
Fujiwara, Osamu	Nagoya Inst. of Tech.
15:30-17:00	FrDPo13.2
<i>Computer-Assisted Orthopedic Diagnosis and Preoperative Planning System Based on the Integrated Electronic Patient Record</i> , pp. 3281-3284.	
Gu, Dong-Yun	Shanghai Ninth People's Hospital, Shanghai Jiaotong Univ. School
Dai, Kerong	Shanghai Second Medical Univ.
Ai, Song Tao	Shanghai Ninth People's Hospital
Chen, Yazhu	Shanghai jiaotong Univ.
15:30-17:00	FrDPo13.3
<i>The Development of a Blood Pressure Simulator in KRISS</i> , pp. 3285-3288.	
Song, Han Wook	Korea Res. Inst. of Standards and Science
Lee, SungJun	KRISS
Park, Yon Kyu	KRISS
Choi, In Mook	KRISS
Woo, Sam Yong	KRISS



15:30-17:00	FrDPo13.4	15:30-17:00	FrDPo14.6
<i>Photon Spectra Calculation for an Elekta Linac Beam Using Experimental Scatter Measurements and Monte Carlo Techniques</i> , pp. 3289-3292.	Pol. Univ. of Valencia	<i>HomeADL for Adaptive ADL Monitoring within Smart Homes</i> , pp. 3324-3327.	Univ. of Ulster
Juste, Belen	Pol. Univ. of Valencia	Hong, Xin	Univ. of Ulster
Miró, Rafael	Hospital Clínic de València	Nugent, Chris	Univ. of Ulster
Campayo, Juan Manuel	Hospital Clínic de València	Finlay, Dewar	Univ. of Ulster
Diez, Sergio	Pol. Univ. of Valencia	Mulvenna, Maurice	Univ. of Ulster
Verdú, Gumersindo			
15:30-17:00	FrDPo13.5	15:30-17:00	FrDPo14.7
<i>The Application of the Movement Classification System in the Diagnosis of Children with Cerebral Palsy</i> , pp. 3293-3296.	Chang-Gung Univ.	<i>Level of Activity, Night and Day Alternation, and Well Being Measured in a Smart Hospital Suite</i> , pp. 3328-3331.	Univ. Joseph Fourier Grenoble
Chang, Tzyh-Chyang	Chang-Gung Univ.	Noury, Norbert	Grenoble Univ.
Lee, Jiann-Der	Chang Gung Univ.	Hadidi, Tareq	Grenoble Univ.
		Laila, Mona	Grenoble Univ.
		Fleury, Anthony	Univ. Joseph Fourier
		Villemazet, Christophe	Univ. Joseph Fourier
		Rialle, Vincent	Grenoble Univ.
		Franco, Alain	Grenoble Univ.
15:30-17:00	FrDPo13.6	15:30-17:00	FrDPo14.8
<i>Predicting Occurrences of Acute Hypoglycemia During Insulin Therapy in the Intensive Care Unit Using Classification Tree Learning</i> , pp. 3297-3300.	MIT, Harvard Medical School-MIT Div. of Health Sciences and	<i>The Inescapable Smart Impact Detection System (ISIS): An Ubiquitous and Personalized Fall Detector Based on a Distributed "divide and Conquer Strategy" (I)</i> , pp. 3332-3335.	SHS Consultores
Zhang, Ying		Prado-Velasco, Manuel	Escuela Superior de Ingenieros Industriales, Univ. of Sevil
		Río-Cidoncha, María Gloria del	Escuela Superior de Ingenieros Industriales, Univ. of Sevil
15:30-17:00	FrDPo13.7		
<i>A New Venous Infusion Path Monitoring System Utilizing Electrostatic Induced Potential</i> , pp. 3301-3303.	Hiroshima Inst. of Tech.	Ortiz-Marín, Rafael	
Ogawa, Hidekuni	Hiroshima Inst. of Tech.		
Yonezawa, Yoshiharu	Hiroshima Inst. of Tech.		
Maki, Hiromichi	Hiroshima Inst. of Tech.		
Caldwell, Morton	Caldwell Biomedical Electronics		
<b>FrDPo14</b>	Exhibit Hall C	<b>FrET1</b>	Ballroom A
<b>Smart Home and Assistive Living Technologies (Poster Session)</b>		<b>Independent Component Analysis in Biomedical Signal and Data Processing (Invited Session)</b>	
15:30-17:00	FrDPo14.1	Organizer: James, Christopher	Univ. of Southampton
<i>Personalisation and Configuration of Assistive Technologies</i> , pp. 3304-3307.	Univ. of Ulster	17:00-17:15	FrET1.1
Burns, William Paul	Univ. of Ulster	<i>Contrasting Spatial, Temporal and Spatio-Temporal ICA Applied to Ictal EEG Recordings (I)</i> , pp. 3336-3339.	Univ. of Southampton
Nugent, Chris	Univ. of Ulster	James, Christopher	Univ. of Edinburgh
McCullagh, Paul	Univ. of Ulster	Davies, Mike	
Zheng, Huiru	Univ. of Ulster		
Finlay, Dewar	Univ. of Ulster	17:15-17:30	FrET1.2
Davies, Richard John	Univ. of Ulster	<i>Cumulant Matching for Independent Source Extraction (I)</i> , pp. 3340-3343.	Ghent Univ.
Donnelly, Mark	Univ. of Ulster	Phlypo, Ronald	Univ. de Nice - CNRS
Black, Norman	Univ. of Ulster	Zarzoso, Vicente	UNSA/CNRS
		Comon, Pierre	Ghent Univ.
		Lemahieu, Ignace	
15:30-17:00	FrDPo14.2	17:30-17:45	FrET1.3
<i>Personalized Healthcare Service through Intelligent Gadgets</i> , pp. 3308-3311.	Electronics and Telecommunications Res. Inst.	<i>Robust Independent Component Analysis for Blind Source Separation and Extraction with Application in Electrocardiography (I)</i> , pp. 3344-3347.	Univ. de Nice - CNRS
Jang, Hyeju	Korea Univ. of Science and Tech.	Zarzoso, Vicente	UNSA/CNRS
Kim, Sang Hyun	ETRI	Comon, Pierre	
Bae, Chang Seok			
15:30-17:00	FrDPo14.3	17:45-18:00	FrET1.4
<i>Home-Based Cognitive Monitoring Using Embedded Measures of Verbal Fluency in a Computer Word Game</i> , pp. 3312-3315.	Oregon Health & Science Univ.	<i>Model Order Estimation for Blind Source Separation of Multichannel Magnetoencephalogram and Electroencephalogram Signals (I)</i> , pp. 3348-3351.	F.C. Donders Centre
Jimison, Holly	Oregon Health and Science Univ.	Hesse, Christian	
Pavel, Michael	Oregon Health & Science Univ.		
Le, Thai	Oregon Health & Science Univ.		
15:30-17:00	FrDPo14.4	<b>FrET2</b>	Ballroom B
<i>Health Smart Home for Elders – a Tool for Automatic Recognition of Activities of Daily Living</i> , pp. 3316-3319.	INP Grenoble	<b>Recent Advances in Neural Engineering - Signal Localization, Prediction and Control (Minisymposium)</b>	
Le, Xuan Hoa Binh	INP Grenoble, CNRS, UJF	Organizer: He, Bin	Univ. of Minnesota
Di Mascolo, Maria	INP Grenoble	17:00-17:30	FrET2.1
Gouin, Alexia	Univ. Joseph Fourier Grenoble	<i>Localization and Control of Activity in Peripheral Nerves (I)</i> , pp. 3352-3354.	
Noury, Norbert		Durand, Dominique	Case Western Res. Univ.
15:30-17:00	FrDPo14.5	17:30-18:00	FrET2.2
<i>Detection Abnormal Pattern in Activities of Daily Living Using Sequence Alignment Method</i> , pp. 3320-3323.	Electronics and Telecommunications Res. Inst.	<i>Functional Neuroimaging of Dynamic Brain Activation (I)</i> , pp. 3355-3355.	Univ. of Minnesota
Jung, Ho-Youl	Electr & Telecomm Res. Inst.	He, Bin	
Park, Soo-Jun	Electronics and Telecommunications Res. Inst. (ETRI)		
Park, Seon-Hee		18:00-18:30	FrET2.3
		<i>Seizure Localization, Probabilistic Prediction, and Stimulation (I)*</i> .	Mayo Clinic
		Worrell, Gregory A.	

<b>FrET3</b>	Ballroom C
<b>Nano and Micro-Technologies for Biosystems (Oral Session)</b>	
17:00-17:15	FrET3.1
<i>Hafnium Transistor Design for Neural Interfacing</i> , pp. 3356-3359.	
Parent, David	San Jose State Univ.
Basham, Eric	Univ. of California, Santa Cruz
17:15-17:30	FrET3.2
<i>Contactless Diamagnetic Trapping of Living Cells Onto a Micromagnet Array</i> , pp. 3360-3363.	
Frenea-Robin, Marie	UMR CNRS 5005
Chetouani, Hichem	IEMN
Haddour, Naoufel	Lab. Ampère
Rostaing, Hervé	CEA-LETI
Laforet, Julie	Ec. Centrale de Lyon / Lab. Ampère
Reyne, Gilbert	CNRS-INPG
17:30-17:45	FrET3.3
<i>Piezo Motor Based Microdrive for Neural Signal Recording</i> , pp. 3364-3367.	
Yang, Sungwook	Korean Inst. of Science and Tech.
Cho, Jeiwon	Korea Inst. of Science and Tech.
Yoon, Eui-Sung	Korea Inst. of Science & Tech.
17:45-18:00	FrET3.4
<i>Highly Sensitive Immunosensor Using a Nanofluidic Preconcentrator</i> , pp. 3368-3370.	
Liao, Ke-Pan	National Taiwan Univ.
Sung, Kung-Bin	National Taiwan Univ.
18:00-18:15	FrET3.5
<i>Evaluation of Cortical Visual Prostheses Microelectrode Array Function. Description of Behavioral Feline Model</i> , pp. 3371-3374.	
Ivanova, Marianna	GU NCN RAMN
Gordeev, Sergey	Scientific Centre of Neurology of RAMS
Ortmann, Valerij	NeuroConnex
Baziyan, Boris Kh.	Intitute of Neurology, Russian Acad. of Science
18:15-18:30	FrET3.6
<i>Feedback Control of Retrograde Peristalsis Using Neural Gastric Electrical Stimulation</i> , pp. 3375-3380.	
Aelen, Paul	Eindhoven Tech. Univ.
Aulanier, Anne-Lise	Univ. of Calgary
Mintchev, Martin	Univ. of Calgary
<b>FrET4</b>	Room 11 & 12
<b>Cardiac MRI (Oral Session)</b>	
17:00-17:15	FrET4.1
<i>Real-Time Cardiac MRI without Triggering, Gating, or Breath Holding</i> , pp. 3381-3384.	
Brinegar, Cornelius	Univ. of Illinois at Urbana-Champaign
Wu, Yijun L.	Carnegie Mellon Univ.
Foley, Lesley	Carnegie Mellon Univ.
Hitchens, T. Kevin	Carnegie Mellon Univ.
Ye, Qing	Carnegie Mellon Univ.
Ho, Chien	Carnegie Mellon Univ.
Liang, Zhi-Pei	Univ. of Illinois, Urbana-Champaign
17:15-17:30	FrET4.2
<i>Real-Time Myocardial Segmentation Using Coupled Active Geometric Functions</i> , pp. 3385-3388.	
Duan, Qi	Columbia Univ.
Laine, Andrew	Columbia Univ.
Pai, Vinay	new york Univ.
17:30-17:45	FrET4.3
<i>A New Similarity Measure for Non-Rigid Breathing Motion Compensation of Myocardial Perfusion MRI</i> , pp. 3389-3392.	
Wollny, Gert	ETSI de Telecomunicación, Univ. Pol. de Madrid
Ledesma-Carbayo, Maria J.	Univ. Pol. de Madri
Kellman, Peter	NIH/NHLBI
Santos, Andres	Univ. Pol. Madrid
17:45-18:00	FrET4.4
<i>Background Noise Removal in Cardiac Magnetic Resonance Images Using Bayes Classifier</i> , pp. 3393-3396.	
Fahmy, Ahmed S.	Cairo Univ.
18:00-18:15	FrET4.5
<i>A Regularized Flow Quantification Method Using MRI Tagging and Single Echo Acquisition Imaging</i> , pp. 3397-3400.	
Jiraraksoyakun, Yuttapong	Texas A&M Univ.
McDougall, Mary	Texas A&M Univ.
Wright, Steven M.	Texas A&M Univ.
Ji, Jim Xiuquan	Texas A&M Univ.
18:15-18:30	FrET4.6
<i>Assessment of Myocardial Deformations from Untagged Cardiac Cine Mri</i> , pp. 3401-3404.	
Randrianarisolo, Solofohery	Univ. of Paris 12
Delechelle, Eric	Univ. Paris 12 Val-de-Marne
Petit, Eric	Univ. Paris 12 Val-de-Marne
Garot, Jerome	Univ. Paris 12
Rahmouni, Alain	Hopital Henri MONDOR
<b>FrET5</b>	Room 1
<b>Body Sensor Networks and Telemetric Systems (Oral Session)</b>	
17:00-17:15	FrET5.1
<i>Use of Relaxation Time As a Marker for Arterial Distensibility</i> , pp. 3405-3408.	
Winchester, Chia-Lin	Univ. of Mary Washington
Chou, Nee-Yin	CW Optics, Inc.
Winchester, Leonard W.	CW Optics, Inc.
17:15-17:30	FrET5.2
<i>Semantic Wireless Body Area Networks</i> , pp. 3409-3412.	
Nimmala, Venkatarama Subba Rao	Stichting IMEC-NL
Penders, Julien	Stichting IMEC Nederland
Van Hyfte, Dirk Medard Helena	i.Know NV
Brands, Michael Rik Frans	i.Know NV
Gyselinckx, Bert	Stichting IMEC-NL
17:30-17:45	FrET5.3
<i>Low Data Rate Ultra Wideband ECG Monitoring System</i> , pp. 3413-3416.	
Ho, Chee Keong	Univ. of Newcastle, Australia
Yuce, Mehmet Rasit	Univ. of Newcastle
17:45-18:00	FrET5.4
<i>Implementation of Body Area Networks Based on MICS/WMTS Medical Bands for Healthcare Systems</i> , pp. 3417-3421.	
Yuce, Mehmet Rasit	Univ. of Newcastle
Ho, Chee Keong	Univ. of Newcastle, Australia
18:00-18:15	FrET5.5
<i>Wireless Body Sensor Network for Low-Power Motion-Tolerant Synchronized Vital Sign Measurement</i> , pp. 3422-3425.	
Volmer, Achim	Tech. Univ. Berlin
Orglmeister, Reinhold	Tech. Univ. Berlin
18:15-18:30	FrET5.6
<i>A Wireless Personal Wearable Network System to Understand the Biomechanics of Orthotic for the Treatment of Scoliosis</i> , pp. 3426-3429.	
Lou, Edmond H.	Glenrose Rehabilitation Hospital
Zbinden, Daniel	Capital Health - Glenrose Site
Mosberger, Philippe	Capital Health - Glenrose Site
Hill, Doug	Glenrose Rehabilitation Hospital
Raso, James	Glenrose Rehabilitation Hospital
<b>FrET6</b>	Room 2 & 3
<b>Robotics for Rehabilitation and Clinical Evaluation (Oral Session)</b>	
17:00-17:15	FrET6.1
<i>Evaluation of Obstetric Gestures: An Approach Based on the Curvature of Quaternions</i> , pp. 3430-3433.	
Moreau, Richard	INSA-Lyon
Ochoa, Victor	Univ. of Alberta
Pham, Minh Tu	Inst. National des Sciences Appliquées (INSA de Lyon)
Boulanger, Pierre	Univ. of Alberta
Redarce, Tanneguy	Inst. National des Sciences Appliquées (INSA de Lyon)
Dupuis, Olivier	Hospices Civils de Lyon



FrET9	Room 10
<b>Correlation, Coherence and Causal Analysis (Oral Session)</b>	
17:00-17:15	FrET9.1
<i>Parametric and Nonparametric Methods to Generate Time-Varying Surrogate Data</i> , pp. 3504-3507.	
Zhao, He	State Univ. of New York at Stony Brook
Faes, Luca	Univ. of Trento
Nollo, Giandomenico	Univ. of Trento
Chon, Ki	State Univ. of New York at Stony Brook
17:15-17:30	FrET9.2
<i>Transmission of Brain Activity in Cognitive and Motor Tasks</i> , pp. 3508-3511.	
Cieslak-Blinowska, Katarzyna	Warsaw Univ.
Kaminski, Maciej	Warsaw Univ.
Kus, Rafal	Warsaw Univ.
Ginter, Jozef, Jr.	Warsaw Univ.
17:30-17:45	FrET9.3
<i>Estimation of Time-Varying Causal Connectivity on EEG Signals with the Use of Adaptive Autoregressive Parameters</i> , pp. 3512-3515.	
Giannakakis, Giorgos	Biomedical Simulations and Imaging Lab.
Nikita, Konstantina	National Tech. Univ. of Athens
17:45-18:00	FrET9.4
<i>A Multiple Coherence-Based Detector for Evoked Responses in the EEG During Sensory Stimulation</i> , pp. 3516-3519.	
Miranda de Sá, Antonio Mauricio	Federal Univ. of Rio de Janeiro
Mirafiosi, Antonio Fernando	Federal Univ. of Rio de Janeiro
Melges, Danilo	Federal Univ. of Rio de Janeiro
18:00-18:15	FrET9.5
<i>A Technique to Predict the Time-Of-Arrival of a Tumor Response Corrupted by Clutter</i> , pp. 3520-3525.	
Kurrant, Douglas	Univ. of Calgary
Fear, Elise C.	Univ. of Calgary
18:15-18:30	FrET9.6
<i>PCA-SGA Implementation in Classification and Disease Specific Feature Extraction of the Brain MRS Signals</i> , pp. 3526-3529.	
Zarei Mahmoodabadi, Sina	Ryerson Univ.
Alirezaie, Javad	Ryerson Univ. Univ. of Waterloo
Babyn, Paul	The Hospital for Sick Children
Wijaja, Elysa	The hospital for sick children
Kassner, Andrea	Univ. of Toronto
<b>FrET10</b>	<b>Room 18</b>
<b>Retinal Image Analysis: Image Processing (Invited Session)</b>	
Organizer: Ruggieri, Alfredo Univ. of Padova	
17:00-17:15	FrET10.1
<i>An Enhanced Segmentation of Blood Vessels in Retinal Images Using Contourlet (I)</i> , pp. 3530-3533.	
Rezatofighi, Seyed Hamid	Univ. of Tehran, Iran
Roodaki, Alireza	Univ. of Tehran
Ahmadi Noubari, Hossain	Univ. of Tehran and Univ. of British Columbia
17:15-17:30	FrET10.2
<i>Elliptical Local Vessel Density: A Fast and Robust Quality Metric for Retinal Images (I)</i> , pp. 3534-3537.	
Giancardo, Luca	Univ. of Burgundy
Abramoff, Michael David	Univ. of Iowa
Chaum, Edward	Univ. of Tennessee Hamilton Eye Inst.
Karnowski, Thomas	Oak Ridge National Lab.
Tobin, Kenneth	Oak Ridge National Lab.
Meriaudeau, Fabrice	Univ. de Bourgogne
17:30-17:45	FrET10.3
<i>Automated Localization of the Optic Disc and the Fovea (I)</i> , pp. 3538-3541.	
Niemeijer, Meindert	The Univ. of Iowa
van Ginneken, Bram	Univ. Medical Center Utrecht
Abramoff, Michael David	Univ. of Iowa
17:45-18:00	FrET10.4
<i>Robust Optic Disc Location Via Combination of Weak Detectors (I)</i> , pp. 3542-3545.	
Perez-Rovira, Adria	Univ. of Dundee
Trucco, Emanuele	Univ. of Dundee

18:00-18:15	FrET10.5
<i>Detection of the Optic Disc in Images of the Retina Using the Hough Transform (I)</i> , pp. 3546-3549.	
Zhu, Xiaolu	Univ. of Calgary
Rangayyan, Raj	Univ. of Calgary
18:15-18:30	FrET10.6
<i>An Improved System for the Automatic Estimation of the Arteriolar-To-Venular Diameter Ratio (AVR) in Retinal Images (I)</i> , pp. 3550-3553.	
Tramontan, Lara	Univ. of Padova
Grisan, Enrico	Univ. of Padova
Ruggieri, Alfredo	Univ. of Padova

FrET11	Room 16
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<b>Diagnostic and Evaluation Techniques (Oral Session)</b>	
17:00-17:15	FrET11.1
<i>Selection of Spectro-Temporal Patterns in Multichannel MEG with Support Vector Machines for Schizophrenia Classification</i> , pp. 3554-3557.	
Ince, Nuri Firat	Univ. of Minnesota
Goksu, Fikri	Univ. of Minnesota
Pellizzer, Giuseppe	VA Medical Center
Tewfik, Ahmed	Univ. of Minnesota
Stephane, Massoud	Minneapolis VA Medical Center
17:15-17:30	FrET11.2
<i>Altered Multijoint Reflex Coordination Is Indicative of Motor Impairment Level Following Stroke</i> , pp. 3558-3561.	
Trumbower, Randy	Northwestern Univ.
Ravichandran, Vengateswaran	Northwestern Univ.
Krutky, Matthew	Northwestern Univ.
Perreault, Eric	Northwestern Univ.
17:30-17:45	FrET11.3
<i>Abnormal EMG-Force Slope Estimates in the First Dorsal Interosseous of Hemiparetic Stroke Survivors</i> , pp. 3562-3565.	
Suresh, Nina	Rehabilitation Inst. of Chicago
Zhou, Ping	Northwestern Univ. & Rehab Inst. of Chicago
Rymer, William Zev	Northwestern & Rehab Inst. of Chicago
17:45-18:00	FrET11.4
<i>A Handheld Electrical Impedance Myography Probe for the Assessment of Neuromuscular Disease</i> , pp. 3566-3569.	
Ogunnika, Olumuyiwa T.	Massachusetts Inst. of Tech.
Scharfstein, Michael	Vecnna Tech. Inc.
Cooper, Roshni	MIT
Ma, Hongshen	Massachusetts Inst. of Tech.
Dawson, Joel L.	Massachusetts Inst. of Tech.
Rutkove, Seward	Beth Israel Deaconess Medical Center
18:00-18:15	FrET11.5
<i>A New Approach to Predicting Postconcussion Syndrome after Mild Traumatic Brain Injury Based Upon Eye Movement Function</i> , pp. 3570-3573.	
Heitger, Marcus	Univ. of Otago, Christchurch
Jones, Richard D.	Van der Veer Inst.
Anderson, Tim J.	Univ. of Otago
18:15-18:30	FrET11.6
<i>Motion Analysis in Delirium: A Wavelet Based Approach for Sub Classification</i> , pp. 3574-3577.	
Godfrey, Alan	Univ. of Limerick
Conway, Richard	Univ. of Limerick
Leonard, Maeve	Midwestern Regional Hospital and Milford Hospice Palliative Care
Meagher, David	Midwestern Regional Hospital and Milford Hospice Palliative Care
ÓLaighin, Gearóid	National Univ. of Ireland, Galway

**FrET12** Room 17  
**Tissue Engineering (Oral Session)**

17:00-17:15 FrET12.1  
*Non-Thermal Dielectric Barrier Discharge Plasma Treatment of Endothelial Cells*, pp. 3578-3581.  
Kalgatgi, Sameer Drexel Univ.  
Fridman, Gregory Drexel Univ.  
Fridman, Alexander Drexel Univ.  
Friedman, Gennady Drexel Univ.  
Morss Clyne, Alisa Drexel Univ.

17:15-17:30 FrET12.2  
*Electromagnetically Enhanced Coating of a Sintered Titanium Grid with Human SAOS-2 Osteoblasts and Extracellular Matrix*, pp. 3582-3585.  
Fassina, Lorenzo Univ. of Pavia  
Saino, Enrica Univ. of Pavia  
Visai, Livia Univ. of Pavia  
Magenes, Giovanni Univ. of Pavia

17:30-17:45 FrET12.3  
*Improved Oxygen Diffusion and Mechanical Aggregation of Tumor Colonies in a Novel Stirred Mini-Bioreactor*, pp. 3586-3589.  
Thouas, George Anthony Monash Univ.  
Thompson, Mark Christopher Monash Univ.  
Contreras, Karla Monash Univ.  
Liow, Yoon Soon Keith Monash Univ.  
Tan, Boon Thong Monash Univ. Sunway Campus  
Hourigan, Kerry Faculty of Engineering

17:45-18:00 FrET12.4  
*Engineering of Functional Contractile Cardiac Tissues Cultured in a Perfusion System*, pp. 3590-3593.  
Marsano, Anna Columbia Univ.  
Maidhof, Robert Columbia Univ.  
Tandon, Nina Columbia Univ.  
Gao, Jin Georgia Inst. of Tech.  
Wang, Yadong Georgia Tech.  
Vunjak-Novakovic, Gordana Columbia Univ.

18:00-18:15 FrET12.5  
*Design of Electrical Stimulation Bioreactors for Cardiac Tissue Engineering*, pp. 3594-3597.  
Tandon, Nina Columbia Univ.  
Marsano, Anna Columbia Univ.  
Cannizzaro, Christopher Tufts Univ.  
Voldman, Joel Massachusetts Inst. of Tech.  
Vunjak-Novakovic, Gordana Columbia Univ.

18:15-18:30 FrET12.6  
*Arterial Complex Elastic Modulus Was Preserved after an Inter-Continental Cryoconserved Exchange*, pp. 3598-3601.  
Salvucci, Fernando Favaloro Univ.  
Armentano, Ricardo Favaloro Univ.  
Atienza, Jose Tech. Univ. of Madrid  
Bia, Daniel School of Medicine, Republic Univ.  
Perez, Hector Republic Univ.  
Barra, Juan Favaloro Univ.  
Craiem, Damian Favaloro Univ.  
Rojo, Francisco Tech. Univ. of Madrid  
Guinea, Gustavo Tech. Univ. of Madrid

**FrET13** Room 9  
**Pathways to Success in Biomedical Engineering (Minisymposium)**

17:00-18:30 FrET13.1  
*Pathways to Success in Biomedical Engineering (I)*, pp. 3602-3603.  
Linte, Cristian A. Roberts Res. Inst.  
Lazareck, Lisa Joanna Univ. of Oxford

**SaPL1** Exhibit Hall A  
**The Blue Brain Project (Plenary)**

08:00-09:00 SaPL1.1  
*The Blue Brain Project\**.  
Hill, Sean École Pol. Fédérale de Lausanne  
Markram, Henry Center for Neuroscience & Tech.

**SaPL2** Exhibit Hall A  
**Roundtable: Medical Device Development (Plenary)**

13:00-14:00 SaPL2.1  
*Medical Device Development: An Industry-Academia Joint Venture?\**.  
Panescu, Dorin St. Jude Medical  
Pearce, John Anthony Univ. of Texas at Austin  
Kroll, Mark Univ. of Minnesota  
Thakor, Nitish Johns Hopkins Univ.

**SaAT1** Ballroom A  
**Empirical Mode Decomposition (Oral Session)**

09:00-09:15 SaAT1.1  
*Tracking Rhythm in Long-Term EEG Recordings Using Empirical Mode Calculation*, pp. 3604-3607.  
Lipping, Tarmo Tampere Univ. of Tech.  
Anier, Andres OÜ ELIKO Tehnoloogia Arenduskeskus  
Ratsep, Indrek Tallinn Univ. of Tech.  
Jäntti, Ville Tampere Univ. Hospital

09:15-09:30 SaAT1.2  
*Automatic Screening of Obstructive Sleep Apnea from the ECG Based on Empirical Mode Decomposition and Wavelet Analysis*, pp. 3608-3611.  
Corthout, Jeroen Katholieke Univ. Leuven  
Van Huffel, Sabine Katholieke Univ. Leuven  
Mendez, Martin Pol. di Milano  
Bianchi, Anna Maria Pol. di Milano  
Penzel, Thomas Charite Univ. Hospital  
Cerutti, Sergio Pol. Univ. of Milan

09:30-09:45 SaAT1.3  
*Quantification of Combined Method for Interferences Reduction in Multichannel Surface Electroenterogram*, pp. 3612-3615.  
Ye, Yiyao Univ. Pol. de Valencia  
Garcia-Casado, Javier Univ. Pol. de Valencia  
Martinez-de-Juan, Jose Luis Centro de investigación e Innovación  
Álvarez Martínez, David Hospital Univ. La Fe de Valencia  
Prats-Boluda, Gema Centro de investigación e Innovación en Bioingeniería

09:45-10:00 SaAT1.4  
*Time-Frequency Representations for Second Heart Sound Analysis*, pp. 3616-3619.  
Reyes, Bersain Alexander Univ. Autonoma Metropolitana (UAM-740101AR1)  
Charleston-Villalobos, Sonia Univ. Autonoma Metropolitana  
Gonzalez-Camarena, Ramon Univ. Autonoma Metropolitana  
Aljama-Corrales, Tomas Univ. Autonoma Metropolitana

10:00-10:15 SaAT1.5  
*Analysis of Discontinuous Adventitious Lung Sounds by Hilbert-Huang Spectrum*, pp. 3620-3623.  
Reyes, Bersain Alexander Univ. Autonoma Metropolitana (UAM-740101AR1)  
Charleston-Villalobos, Sonia Univ. Autonoma Metropolitana  
Gonzalez-Camarena, Ramon Univ. Autonoma Metropolitana  
Aljama-Corrales, Tomas Univ. Autonoma Metropolitana

10:15-10:30 SaAT1.6  
*Empirical Mode Decomposition Applied to Tissue Artifact Removal from Respiratory Signal*, pp. 3624-3627.  
Liu, Shaopeng Univ. of Massachusetts Amherst  
He, Qingbo Univ. of Massachusetts Amherst  
Gao, Robert X. Univ. of Massachusetts Amherst  
Freedson, Patty Univ. of Massachusetts Amherst

**SaAT2** Ballroom B  
**Advances in Wearable Technology (Minisymposium)**

Organizer: Bonato, Paolo Harvard Medical School  
09:00-09:30 SaAT2.1  
*M-Health: Wearable Wireless Devices for the Noninvasive, Continuous and Cuffless Measurement of Arterial Blood Pressure (I)\**.  
Zhang, Yuan-Ting The Chinese Univ. of Hong Kong  
Yan, Renfei The Chinese Univ. of Hong Kong  
Poon, Carmen CY The Chinese Univ. of Hong Kong  
Teng, Xiaofei The Chinese Univ. of Hong Kong

10:00-10:30 SaAT2.3  
*A Survey of Power Efficient Technologies for Wireless Body Area Networks (I)*, pp. 3628-3628.  
Jovanov, Emil Univ. of Alabama in Huntsville

10:00-10:30 SaAT2.5  
*Advances in Textile Sensing and Actuation for E-Textile Applications (I)*, pp. 3629-3629.  
Paradiso, Rita Millior SpA  
De Rossi, Danilo Univ. of Pisa

**SaAT3** Ballroom C  
**Interventional and Computer-Guided Imaging (Oral Session)**

09:00-09:15 SaAT3.1  
*Inverse Computational Feedback Optimization Imaging Applied to Time Varying Changes in a Homogeneous Structure*, pp. 3630-3633.  
Evans, Daniel Univ. of Idaho  
Manwaring, Mark Univ. of Idaho  
Soule, Terence Univ. of Idaho

09:15-09:30 SaAT3.2  
*Deformable Registration for Intra-Operative Cone-Beam CT Guidance of Head and Neck Surgery*, pp. 3634-3637.  
Nithiananthan, Sajendra Univ. of Toronto  
Brock, Kristy Princess Margaret Hospital,  
Univ. Health Network, Univ.  
Irish, Jonathan Univ. Health Network  
Siewerdsen, Jeffrey Univ. Health Network

09:30-09:45 SaAT3.3  
*Initial Investigation of an Automatic Registration Algorithm for Surgical Navigation*, pp. 3638-3642.  
Bootsma, Gregory Univ. of Toronto  
Siewerdsen, Jeffrey Univ. Health Network  
Daly, Michael J. Univ. Health Network  
Jaffray, David A. Univ. Health Network

09:45-10:00 SaAT3.4  
*Effect of Fiducial Configuration on Target Registration Error in Intraoperative Cone-Beam CT Guidance of Head and Neck Surgery*, pp. 3643-3648.  
Hamming, Nathaniel Univ. of Toronto  
Daly, Michael J. Univ. Health Network  
Irish, Jonathan Univ. Health Network  
Siewerdsen, Jeffrey Univ. Health Network

10:00-10:15 SaAT3.5  
*Characterization and 3D Correction of Geometric Distortion in Low-Field Open-Magnet MRI*, pp. 3649-3652.  
Viard, Romain CHRU Lille  
Betrouni, Nacim Inst. de Tech. Médicale  
Vermandel, Maximilien Univ. de Lille  
Mordon, Serge Lille Univ. Hospital  
Rousseau, Jean INSERM - Univ. de Lille 2

10:15-10:30 SaAT3.6  
*A New Lateral Guidance Device for Stereotactic Breast Biopsy Using an Add-On Unit to an Upright Mammography System*, pp. 3653-3656.  
Ma, Kayan Robarts Res. Inst.  
Fenster, Aaron Robarts Res. Inst.  
Kornecki, Anat St. Joseph's Health Care London  
Mundt, Yolanda St. Joseph's Health Care London  
Bax, Jeff Robarts Res. Inst.

**SaAT4** Room 11 & 12  
**Lasers and Ultrasound in Ablation Therapy (Oral Session)**

09:00-09:15 SaAT4.1  
*Noninvasive Thermal Coagulation of Deep Subsurface Tissue Structures Using a Laser Probe with Integrated Contact Cooling*, pp. 3657-3660.  
Cilip, Christopher Univ. of North Carolina at Charlotte  
Scott, Nicholas Univ. of North Carolina at Charlotte  
Trammell, Susan Univ. of North Carolina at Charlotte  
Fried, Nathaniel Univ. of North Carolina at Charlotte

09:15-09:30 SaAT4.2  
*The Laser Driven Heating Catheter: Vessel Dilatation Characteristics*, pp. 3661-3663.

Shimazaki, Natsumi Keio Univ.  
Mizukami, Go Keio Univ.  
Tokunaga, Hisako KEIO Univ.  
Kaneko, Kenji Keio Univ.  
Arai, Tsunenori Keio Univ.

09:30-09:45 SaAT4.3  
*Catheter-Based Ultrasound Devices and MR Thermal Monitoring for Conformal Prostate Thermal Therapy (I)*, pp. 3664-3668.  
Diederich, Chris Univ. of California, San Francisco

09:45-10:00 SaAT4.4  
*In Vitro Evaluation of an Oscillating Dual-Mode Ultrasound Probe for Sector Imaging and Directive Therapy*, pp. 3669-3672.

Owen, Neil U556  
Bouchoux, Guillaume U556  
Murillo, Adriana U556  
Merouche, Samir U556  
Birr, Alain U556  
Chapelon, Jean-Yves INSERM U556  
Berriet, Rémi IMASONIC  
Fleury, Gérard IMASONIC  
Lafon, Cyril INSERM

10:00-10:15 SaAT4.5  
*A Localization Method of Lesions Induced by High Intensity Focused Ultrasound Based on Acoustic Backscatter Change*, pp. 3673-3676.  
Zheng, Xinliang Univ. of Washington  
Vaezy, Shahram Univ. of Washington

**SaAT5** Room 1  
**Neural Oscillations (Minisymposium)**

Organizer: Akay, Metin Arizona State Univ.

09:00-09:30 SaAT5.1  
*Diffusive Coupling Can Induce Synchronized Periodic Activity in Neural Networks (I)*, pp. 3677-3678.

Durand, Dominique Case Western Res. Univ.

10:00-10:30 SaAT5.3  
*Assessment of Hippocampal and Autonomic Neural Activity by Point Process Models (I)*, pp. 3679-3679.

Barbieri, Riccardo MGH-Harvard Medical School-MIT  
Chen, Zhe Massachusetts General Hospital,  
Harvard Medical School  
Brown, Emery N MGH-Harvard Medical School-MIT

10:00-10:30 SaAT5.5  
*2-APB Reduces the Complexity of Hippocampal  $\theta$  Oscillations in Rats (I)*, pp. 3680-3681.  
Akay, Metin Arizona State Univ.

**SaAT6** Room 2 & 3  
**Clinical Applications of Wearable Technology (Oral Session)**

09:00-09:15 SaAT6.1  
*Assessing Elderly Persons' Fall Risk Using Spectral Analysis on Accelerometric Data – a Clinical Evaluation Study*, pp. 3682-3685.

Marschollek, Michael Univ. of Braunschweig - Inst. of Tech.  
Wolf, Klaus-Hendrik Univ. of Braunschweig - Inst. of Tech.  
Gietzelt, Matthias Univ. of Braunschweig - Inst. of Tech.  
Nemitz, Gerhard Braunschweig Medical Center  
Meyer zu Schwabedissen, Braunschweig Medical Center  
Hubertus  
Haux, Reinhold Univ. of Braunschweig - Inst. of Tech.

09:15-09:30		SaAT6.2		10:00-10:15		SaAT7.5
<i>Using Wearable Sensors to Predict the Severity of Symptoms and Motor Complications in Late Stage Parkinson's Disease</i> , pp. 3686-3689.				<i>Fast Orthogonal Search Method to Estimate Upper Arm Hill-Based Muscle Model Parameters</i> , pp. 3720-3725.		
Patel, Shyamal		Harvard Medical School		Mountjoy, Katherine		Queen's Univ.
Hughes, Richard		Harvard Medical School		Hashtrudi-Zaad, Keyvan		Queen's Univ.
Huggins, Nancy		Harvard Medical School		Morin, Evelyn		Queen's Univ.
Standaert, David		Univ. of Alabama at Birmingham		10:15-10:30		SaAT7.6
Growdon, John H.		Harvard Medical School		<i>Preterm Labor - Modeling the Uterine Electrical Activity from Cellular Level to Surface Recording</i> , pp. 3726-3729.		
Dy, Jennifer		Northeastern Univ.		Rihana, Sandy		Univ. of Tech. of Compiegne
Bonato, Paolo		Harvard Medical School		Marque, Catherine		Univ. of Tech. of compiegne
09:30-09:45		SaAT6.3		<hr/>		
<i>Wearable Monitoring System for Chronic Cardio-Respiratory Diseases</i> , pp. 3690-3693.				<b>SaAT8</b> Room 19 & 20		
Taccini, Nicola		Smartex s.r.l.		<b>Optical Imaging (Oral Session)</b>		
Loriga, Giannicola		Smartex s.r.l.		09:00-09:15		SaAT8.1
Pacelli, Maria		Smartex s.r.l.		<i>Angular Domain Optical Imaging Using a Micromachined Tunnel Array and a Keplerian Lens System</i> , pp. 3730-3734.		
Paradiso, Rita		Milior SpA		Vasefi, Fartash		SIMON FRASER Univ.
09:45-10:00		SaAT6.4		Kaminska, Bozena		SIMON FRASER Univ.
<i>Analyzing Biomechanical Properties of Falls Using an Adult Anthropometric Test Dummy*</i> .				Chapman, Glenn H.		SIMON FRASER Univ.
Steed, Daniel		Univ. of Pittsburgh		09:15-09:30		SaAT8.2
Roche, Jennica		Univ. of Pittsburgh		<i>The Design and Characterization of a Digital Optical Breast Cancer Imaging System</i> , pp. 3735-3738.		
Srinivasan, Soundararajan		Robert Bosch LLC		Flexman, Molly		Columbia Univ.
Gacic, Aca		Robert Bosch LLC		Li, Yang		Columbia Univ.
Redfern, Mark		Univ. of Pittsburgh		Bur, Andres		Columbia Univ.
10:00-10:15		SaAT6.5		Fong, Christopher		Columbia Univ.
<i>A System for Respiratory Motion Detection Using Optical Fibers Embedded into Textiles</i> , pp. 3694-3697.				Masciotti, James		Columbia Univ.
D'Angelo, Lorenzo Tancredi		Tech. Univ. München		Abdi, Rabah		State Univ. of New York
Weber, Stefan		Tech. Univ. of Munich		Barbour, Randall		SUNY Downstate Medical Center
Honda, Yuichiro		Tech. Univ. of Munich		Hielscher, Andreas		Columbia Univ.
Thiel, Torsten		Advanced Optics Solutions GmbH		09:30-09:45		SaAT8.3
Narbonneau, François		Multitel		<i>Measurement of Sublingual Blood Velocity As a Tool for Monitoring Sepsis</i> , pp. 3739-3742.		
Lueth, Tim		Tech. Univ. of Munich		Winchester, Leonard W.		CW Optics, Inc.
10:15-10:30		SaAT6.6		Chou, Nee-Yin		CW Optics, Inc.
<i>Chair Alarm for Patient Fall Prevention Based on Gesture Recognition and Interactivity</i> , pp. 3698-3701.				09:45-10:00		SaAT8.4
Knight, Heather		Massachusetts Inst. of Tech.		<i>High Resolution Mapping of Cortical Blood Flow by Mosaicing the Laser Speckle Images</i> , pp. 3743-3746.		
Lee, Jae-kyu		Massachusetts Inst. of Tech.		Yu, Jing		Shanghai Jiao Tong Univ.
Ma, Hongshen		Massachusetts Inst. of Tech.		Miao, Peng		Shanghai Jiao Tong Univ.
<hr/>				Li, Minheng		Shanghai Jiao Tong Univ.
<b>SaAT7</b>		Room 8 & 15		Qiu, Yihong		Shanghai Jiao Tong Univ.
<b>Muscle and Musculoskeletal Modeling (Oral Session)</b>				Zhu, Yisheng		Shanghai Jiaotong Univ. Shanghai, China
09:00-09:15		SaAT7.1		Tong, Shanbao		Shanghai Jiao Tong Univ.
<i>Smooth Muscle Model for Functional Electrical Stimulation Applications: Simulation of Realistic Bladder Behavior under FES</i> , pp. 3702-3705.				10:00-10:15		SaAT8.5
Laforet, Jeremy		Univ. Montpellier 2		<i>The Forward Problem Algorithm Based on Modified Element Free Galerkin Method for Bioluminescence Tomography</i> , pp. 3747-3750.		
Guiraud, David		INRIA		Qin, Chenghu		Chinese Acad. of Sciences
09:15-09:30		SaAT7.2		Tian, Jie		Chinese Acad. of Sciences
<i>Modeling and Identification of Human Neuromusculoskeletal Network Based on Biomechanical Property of Muscle</i> , pp. 3706-3709.				Liu, Kai		Inst. of Automation, Chinese Acad. of Sciences
Murai, Akihiko		The Univ. of Tokyo		Dai, Yakang		Chinese Acad. of Science
Katsu, Yamane		Univ. of Tokyo		10:15-10:30		SaAT8.6
Nakamura, Yoshihiko		Univ. of Tokyo		<i>Terahertz Image Processing Methods for Biomedical Applications</i> , pp. 3751-3754.		
09:30-09:45		SaAT7.3		MacPherson, Emma		Chinese Univ. of Hong Kong
<i>Optimal Design of Musculoskeletal Models Using Force Field Data</i> , pp. 3710-3714.				Huang, Shengyang		CUHK
Yeo, Sang Hoon		UBC		Sun, Yiwen		CUHK
Tresch, Matthew		Northwestern Univ.		Kan, Kanis		CUHK
Pai, Dinesh K.		UBC		Zhang, Yuan-Ting		The Chinese Univ. of Hong Kong
09:45-10:00		SaAT7.4		<hr/>		
<i>A Neuromusculoskeletal Model Exploring Peripheral Mechanism of Tremor</i> , pp. 3715-3719.				<b>SaAT9</b> Room 10		
Zhang, Dingguo		Nanyang Tech. Univ.		<b>EEG Mapping and Localization (Oral Session)</b>		
Ang, Wei Tech		Nanyang Tech. Univ.		09:00-09:15		SaAT9.1
Poignet, Philippe		LIRMM, UMR CNRS 5506, Univ. of Montpellier II		<i>Assessing the Memorization of TV Commercials with the Use of High Resolution EEG : A Pilot Study</i> , pp. 3755-3758.		
				Astolfi, Laura		Univ. of Rome
				De Vico Fallani, Fabrizio		Univ. La Sapienza
				Babiloni, Fabio		Univ. of Rome



09:15-09:30	SaAT9.2	09:45-10:00	SaAT11.4
<i>The SSVEP Topographic Scalp Maps by Canonical Correlation Analysis</i> , pp. 3759-3762.		<i>Mining Knowledge for the Methylation Status of CpG Islands Using Alternating Decision Trees</i> , pp. 3787-3790.	
Bin, Guangyu	Tsinghua Univ.	Carson, Matthew	Univ. of Illinois at Chicago
Lin, Zhonglin	IBM	Langlois, Robert	Univ. of Illinois at Chicago
Gao, Xiaorong	Tsinghua Univ.	Lu, Hui	Univ. of Illinois at Chicago
Gao, Shangkai	Tsinghua Univ.		
Hong, Bo	Tsinghua Univ.		
09:30-09:45	SaAT9.3	10:00-10:15	SaAT11.5
<i>Electrocorticographic Spectral Changes Associated with Ipsilateral Individual Finger and Whole Hand Movement</i> , pp. 5939-5942.		<i>Integrated Peptide and Glycan Biomarker Discovery Using MALDI-TOF Mass Spectrometry</i> , pp. 3791-3794.	
Zanos, Stavros	Univ. of Washington School of Medicine, Seattle, WA	Varghese, Rency	Georgetown Univ. Medical Center
	Univ. of Washington	Goldman, Lenka	Georgetown Univ.
Miller, Kai J	Univ. of Washington	An, Yanming	Georgetown Univ.
Ojemann, Jeffrey G	Univ. of Washington	Loffredo, Christopher A.	Georgetown Univ.
		Abdel-Hamid, Mohamed	NHTMRI
		Kyselova, Zuzana	Indiana Univ.
		Mechref, Yehia	Indiana Univ.
		Novotny, Milos	Indiana Univ.
		Drake, Steven K	NIH
		Goldman, Radoslav	georgetown Univ.
		Ressom, Habtom	Georgetown Univ.
09:45-10:00	SaAT9.4	10:15-10:30	SaAT11.6
<i>Head Modeling and Cortical Source Localization in Epilepsy</i> , pp. 3763-3766.		<i>Intelligible Machine Learning with Malibu for Bioinformatics and Medical Informatics</i> , pp. 3795-3798.	
Akalin Acar, Zeynep	Univ. of California, San Diego	Langlois, Robert	Univ. of Illinois at Chicago
Makeig, Scott	Univ. of California San Diego	Lu, Hui	Univ. of Illinois at Chicago
Worrell, Gregory A.	Mayo Clinic		
10:00-10:15	SaAT9.5		
<i>Assessment of Neural Dynamic Coupling and Causal Interactions between Independent EEG Components from Cognitive Tasks Using Linear and Nonlinear Methods</i> , pp. 3767-3770.			
Sakkalis, Vangelis	FORTH & Tech. Univ. of Crete		
Tsiaras, Vassilis	Crete		
Michalopoulos, Kostas	Tech. Univ. of Crete		
Zervakis, Michalis	Tech. Univ. of Crete, Greece		
10:15-10:30	SaAT9.6		
<i>Optimal Spatial Resolution of Epidural and Subdural Electrode Arrays for Brain-Machine Interface Applications</i> , pp. 3771-3774.			
Slutzky, Marc	Northwestern Univ.		
Miller, Lee	Northwestern Univ.		
Jordan, Luke R.	Northwestern Univ. Feinberg School of Medicine		
<b>SaAT11</b>	Room 16	<b>SaAT12</b>	Room 17
<b>Computational Tools for Proteomics and Genome Analysis (Oral Session)</b>		<b>Decision Support and Trend Analysis (Oral Session)</b>	
09:00-09:15	SaAT11.1	09:00-09:15	SaAT12.1
<i>A Bayesian Approach to Peptide Identification Using Accurate Mass and Time Tags from LC-FTICR-MS Proteomics Experiments</i> , pp. 3775-3778.		<i>Automated Creation of Transparent Fuzzy Models Based on Decision Trees – Application to Diabetes Diagnosis</i> , pp. 3799-3802.	
Yanofsky, Corey	McGill Univ.	Tsipouras, Markos G.	Univ. of Ioannina
Kearney, Robert Edward	McGill Univ.	Exarchos, Themis P.	Unit of Medical Tech. & Intelligent Info
Lesimple, Souad	McGill Univ.	Fotiadis, Dimitrios I.	Univ. of Ioannina
Bergeron, John	McGill Univ.		
Boismenu, Daniel	McGill Univ.		
Carrillo, Brian	McGill Univ.		
Bell, Alexander	McGill Univ.		
09:15-09:30	SaAT11.2	09:15-09:30	SaAT12.2
<i>An Information Theoretic Method of Microarray Probe Design for Genome Classification</i> , pp. 3779-3782.		<i>Predicting ICU Hemodynamic Instability Using Continuous Multiparameter Trends</i> , pp. 3803-3806.	
Garbarine, Elaine	Drexel Univ.	Cao, Hanqing	Philips Res. North America
Rosen, Gail	Drexel Univ.	Eshelman, Larry J	Philips Res.
		Chbat, Nicolas	Philips Res. North America
		Nielsen, Larry	Philips Healthcare
		Gross, Brian	Philips Healthcare
		Saeed, Mohammed	MIT
09:30-09:45	SaAT11.3	09:30-09:45	SaAT12.3
<i>SNP Sets Selection under Mutual Information Criterion, Application to F7/FVII Dataset</i> , pp. 3783-3786.		<i>A Hierarchical, Ontology-Driven Bayesian Concept for Ubiquitous Medical Environments a Case Study for Pulmonary Diseases</i> , pp. 3807-3810.	
Brunel, Helena	Univ. Pol. de Catalunya	Maragoudakis, Manolis	Univ. of the Aegean
Perera, Alexandre	Univ. Pol. de Catalunya	Lymberopoulos, Dimitrios	Univ. of Patras
Buil Demur, Alfonso	Hospital de la Santa Creu i Sant Pau	Fakotakis, Nikos	Univ. of Patras
Sabater-Lleal, Maria	Hospital de la Santa Creu i Sant Pau	Spiropoulos, Kostas	Univ. of Patras
Souto Andrés, Juan Carlos	Hospital de la Santa Creu i Sant Pau		
Fontcuberta Boj, Jordi	Hospital de la Santa Creu i Sant Pau		
Vallverdu, Montserrat	Tech. Univ. of Catalonia		
Soria, José Manuel	Santa Creu i Sant Pau Hospital		
Caminal, Pere	Tech. Univ. of Catalonia (UPC)		
		09:45-10:00	SaAT12.4
		<i>Temporal Trend Analysis in Personal Health Records</i> , pp. 3811-3814.	
		Hudson, Donna L	Univ. of California, San Francisco
		Cohen, Maurice	Univ. of California San Francisco
		10:00-10:15	SaAT12.5
		<i>Emergent Trend Detection in Diurnal Activity</i> , pp. 3815-3818.	
		Sledge, Isaac, J.	Univ. of Missouri
		Keller, James M	Univ. of Missouri
		Alexander, Gregory	Univ. of Missouri - Columbia
		10:15-10:30	SaAT12.6
		<i>Regression Forecasting of Patient Admission Data</i> , pp. 3819-3822.	
		Boyle, Justin	CSIRO ICT Centre
		Wallis, Marianne	Griffith Univ.
		Jessup, Melanie	Griffith Univ.
		Crilly, Julia	Queensland Health
		Lind, James	Queensland Health
		Miller, Peter	Queensland Health
		Fitzgerald, Gerard	Queensland Univ. of Tech.

<b>SaAT13</b>	Room 9
<b>Ethics in Biomedical Engineering (Oral Session)</b>	
09:00-10:30	SaAT13.1
<i>Ethics in Biomedical Engineering (I)</i> , pp. 3823-3823.	
Morsy, Ahmed	Cairo Univ.
Flexman, Jennifer A.	British Columbia Cancer Agency
<b>SaBPo01</b>	Exhibit Hall C
<b>Analysis of Brain Activity (Poster Session)</b>	
10:30-12:00	SaBPo01.1
<i>Automatic Identification of Epilepsy by HOS and Power Spectrum Parameters Using EEG Signals: A Comparative Study</i> , pp. 3824-3827.	
Chua, Kuang Chua	Ngee Ann Pol.
10:30-12:00	SaBPo01.2
<i>Quantifying the Causal Interactions in the Brain Using a Measure of Directed Transinformation</i> , pp. 3828-3831.	
Raza, Rana Hammad	Michigan State Univ.
Aviyente, Selin	Michigan State Univ.
10:30-12:00	SaBPo01.3
<i>Hilbert-Huang Spectrum As a New Field for the Identification of EEG Event Related De-/Synchronization for BCI Applications</i> , pp. 3832-3835.	
Panoulas, Konstantinos	Aristotle Univ. of Thessaloniki
Hadjileontiadias, Leontios	Aristotle Univ. of Thessaloniki
Panas, Stavros	Aristotle Univ. of Thessaloniki
10:30-12:00	SaBPo01.4
<i>Comparing a Supervised and an Unsupervised Classification Method for Burst Detection in Neonatal EEG</i> , pp. 3836-3839.	
Löfhede, Johan	Univ. Coll. of Borås
Degerman, Johan	Chalmers Univ. of Tech.
Löfgren, Nils	Univ. Coll. of Borås
Thordstein, Magnus	Unit of Clinical Neurophysiology, Sahlgrenska Univ. Hospita
Flisberg, Anders	Goteborg Univ.
Kjellmer, Ingemar	Goteborg Univ.
Lindecrantz, Kaj	Univ. Coll. of Borås
10:30-12:00	SaBPo01.5
<i>Single-Trial Analysis of the Auditory N100 Improves Separation of Normal and Schizophrenia Subjects</i> , pp. 3840-3843.	
Iyer, Darshan	NEUROMetrix, Inc.
Zouridakis, George	Univ. of Houston
<b>SaBPo02</b>	Exhibit Hall C
<b>Empirical Mode Decomposition Posters (Poster Session)</b>	
10:30-12:00	SaBPo02.1
<i>Assessment of the Cardiovascular Regulation During Robotic Assisted Locomotion in Normal Subjects: Autoregressive Spectral Analysis vs Empirical Mode Decomposition</i> , pp. 3844-3847.	
Magagnin, Valentina	Pol. of Milan
Caiani, Enrico	Pol. of Milan
Fusini, Laura	Pol. di Milano
Turiel, Maurizio	Istituto ortopedico Galeazzi- Univ. degli studi di Milano
Licari, Vittorio	Galeazzi Orthopedic Hospital IRCCS
Bo, Ivano	Istituto Ortopedico IRCCS Galeazzi
Cerutti, Sergio	Pol. Univ. of Milan
Porta, Alberto	Univ. degli Studi di Milano
10:30-12:00	SaBPo02.2
<i>Application of Hilbert-Huang Transform for the Study of Motor Imagery Tasks</i> , pp. 3848-3851.	
Wang, Lei	Hebei Univ. of Tech.
Xu, Guizhi	Hebei Univ. of Tech.
Wang, Jiang	TangShan Vocation and Tech. Coll.
Yang, Shuo	Hebei Univ. of Tech.
Yan, Weili	Hebei Univ. of Tech.
10:30-12:00	SaBPo02.3
<i>Gait Pattern Classification Using Compact Features Extracted from Intrinsic Mode Functions</i> , pp. 3852-3855.	
Ibrahim, Ronny Kurniawan	Univ. of New South Wales
Ambikairajah, E	Univ. of New South Wales
Lovell, Nigel H	Univ. of New South Wales
Celler, Branko George	Univ. of New South Wales
10:30-12:00	SaBPo02.4
<i>Robust Peak Detection of Pulse Waveform Using Height Ratio</i> , pp. 3856-3859.	
Xu, Lisheng	School of Control Science and Engineering, Shandong
Meng, Max Q.-H.	The Chinese Univ. of Hong Kong
Liu, Rong	Dalian Univ. of Tech.
Wang, Kuanquan	Harbin Inst. of Tech.
<b>SaBPo03</b>	Exhibit Hall C
<b>Signals in Neural System (Poster Session)</b>	
10:30-12:00	SaBPo03.1
<i>Sleep Onset Estimator: Evaluation of Parameters</i> , pp. 3860-3863.	
Cvetkovic, Dean	RMIT Univ.
Cosic, Irena	RMIT Univ.
10:30-12:00	SaBPo03.2
<i>On-Line Automatic Detection of Driver Drowsiness Using a Single Electroencephalographic Channel</i> , pp. 3864-3867.	
Picot, Antoine	Gipsa-Lab.
Charbonnier, Sylvie	Gipsa-Lab.
Caplier, Alice	Gipsa-Lab.
10:30-12:00	SaBPo03.3
<i>On the Propagation Analysis of Electrohyterographic Signals</i> , pp. 3868-3871.	
Rabotti, Chiara	Eindhoven Univ. of Tech.
Mischi, Massimo	Eindhoven Univ. of Tech.
van Laar, O. E. H. Judith	Veldhoven Maxima Medical Center
Oei, S. Guid	Maxima Medisch Centrum, Veldhoven
Bergmans, Johannes	Eindhoven Univ. of Tech.
Wilhelmus Maria	
10:30-12:00	SaBPo03.4
<i>Applying Time, Frequency and Nonlinear Features from Nocturnal Oximetry to OSA Diagnosis</i> , pp. 3872-3875.	
Álvarez, Daniel	Univ. of Valladolid
Hornero, Roberto	Univ. of Valladolid
Marcos, J. Victor	Univ. de Valladolid
del Campo, Félix	Hospital del Rio Hortega
Zamarrón, Carlos	Hospital Clínico Univ.
López, Miguel	Univ. of Valladolid
10:30-12:00	SaBPo03.5
<i>Analysis of Coherence between Sleep EEG and ECG Signals During and after Obstructive Sleep Apnea Events</i> , pp. 3876-3879.	
Khandoker, Ahsan Habib	The Univ. of Melbourne
Karmakar, Chandan K.	The Univ. of Melbourne
Palaniswami, Marimuthu	The Univ. of Melbourne
10:30-12:00	SaBPo03.6
<i>EEG Signal Classification Method Based on Fractal Features and Neural Network</i> , pp. 3880-3883.	
Phothisonothai, Montri	Burapha Univ.
Nakagawa, Masahiro	Nagaoka Univ. of Tech.
<b>SaBPo04</b>	Exhibit Hall C
<b>Brain Image Analysis (Poster Session)</b>	
10:30-12:00	SaBPo04.1
<i>Early Detection of Neurodegeneration in Brain Ischemia by Manganese-Enhanced MRI</i> , pp. 3884-3887.	
Chan, Kevin C.	The Univ. of Hong Kong
Cai, Ke-xia	The Univ. of Hong Kong
Su, Huan-xing	The Univ. of Hong Kong
Hung, Victor H.	The Univ. of Hong Kong
Cheung, Matthew M.	The Univ. of Hong Kong
Chiu, Chi-tat	The Univ. of Hong Kong
Guo, Hua	The Univ. of Hong Kong
Yang, Jian	Xi'an Jiaotong Univ.
Chung, Sookja K.	The Univ. of Hong Kong
Wu, Wu-tian	The Univ. of Hong Kong
Wu, Ed X.	The Univ. of Hong Kong

10:30-12:00	SaBPo04.2	10:30-12:00	SaBPo04.11
<i>Automatic Compartmental Decomposition for 3D MR Images of Human Brain</i> , pp. 3888-3891.		<i>A Statistical Atlas-Based Technique for Automatic Segmentation of the First Heschl's Gyrus in Human Auditory Cortex from MR Images</i> , pp. 3920-3923.	
Zhao, Lu	Tampere Univ. of Tech.	Tahmasebi, Amir	Queen's Univ.
Tohka, Jussi	Tampere Univ. of Tech.	Johnsrude, Ingrid	Queen's Univ.
10:30-12:00	SaBPo04.3	Wild, Conor	Queen's Univ.
<i>Neonatal Probabilistic Models for Brain, CSF and Skull Using T1 MRI Data: Preliminary Results</i> , pp. 3892-3895.		Hedjazi Moghari, Mehdi	Queens Univ.
Kazemi, Kamran	Univ. of Picardie Jules Verne	Abolmaesumi, Purang	Queen's Univ.
Ghadimi, Sona	Univ. de Picardie Jules Verne	10:30-12:00	SaBPo04.12
Abrishami Moghaddam, Hamid	K.N.T. Univ.	<i>Comparison of Tissue Segmentation Algorithms in Neuroimage Analysis Software Tools</i> , pp. 3924-3928.	
Grebe, Reinhard	Univ. of Picardie Jules Verne	Tsang, On	Univ. of Texas at Dallas
Gondry-Jouet, Catherine	Centre Hospitalier Univ. d'Amiens	Gholipour, Ali	Univ. of Texas at Dallas
Wallos, Fabrice	Univ. of Picardie Jules Verne	Kehtarnavaz, Nasser	Univ. of Texas at Dallas
10:30-12:00	SaBPo04.4	Gopinath, Kaundinya	UT Southwestern Medical Center at Dallas
<i>Inhomogeneity Compensation for MR Brain Image Segmentation Using a Multi-Stage FCM-Based Approach</i> , pp. 3896-3899.		Briggs, Richard	UT Southwestern Medical Center at Dallas
Szilagyi, Laszlo	Budapest Univ. of Tech. and Ec.	Panahi, Issa	Univ. of Texas at Dallas
Szilagyi, Sandor Miklos	Sapientia - Hungarian Science Univ. of Transylvania	10:30-12:00	SaBPo04.13
David, Laszlo	Sapientia - Hungarian Science Univ. of Transylvania	<i>Brain-Mapping Using Robotized TMS</i> , pp. 3929-3932.	
Benyo, Zoltan	Budapest Univ. of Tech. & Ec.	Finke, Markus	Univ. of Luebeck, Germany
10:30-12:00	SaBPo04.5	Fadini, Tomasso	Univ. of Goettingen, Germany
<i>Abnormalities in MRI Traits of Corpus Callosum in Autism Subtype</i> , pp. 3900-3903.		Kantelhardt, Sven	Univ. of Goettingen, Germany
He, Qing	Univ. of Missouri-Columbia	Giese, Alf	Univ. of Goettingen, Germany
Karsch, Kevin	Univ. of Missouri	Matthäus, Lars	Univ. of Luebeck, Germany
Duan, Ye	Univ. of Missouri at Columbia	Schweikard, Achim	Univ. of Luebeck, Germany
10:30-12:00	SaBPo04.6	10:30-12:00	SaBPo04.14
<i>Image Based Diagnosis of Cortical Cataract</i> , pp. 3904-3907.		<i>Cortical Complexity Analysis of Patients with Bipolar Disorder Using Three-Dimensional Gyrfication Index</i> , pp. 3933-3936.	
Li, Huiqi	Inst. for Infocomm Res.	Liao, Yuan-Lin	National Cheng Kung Univ.
Ko, Liling	National Univ. of Singapore	Sun, Yung-Nien	National Cheng Kung Univ.
Lim, Joo Hwee	Inst. for Infocomm Res.	Hsieh, Jen-Chuen	Taipei Veterans General Hospital
Liu, Jiang	Inst. for Infocomm Res. A*STAR	Su, Tung-Pin	Taipei Veterans General Hospital
Wong, Damon	Inst. for Infocomm Res.	Guo, Wan-Yuo	Taipei Veterans General Hospital
Wong, Tien Yin	National Univ. of Singapore	Wu, Yu-Te	National Yang-Ming Univ.
10:30-12:00	SaBPo04.7	10:30-12:00	SaBPo04.15
<i>Computer-Aided Diagnosis Scheme for Classification of Lacunar Infarcts and Enlarged Virchow-Robin Spaces in Brain MR Image</i> , pp. 3908-3911.		<i>Detecting Auditory Cortex: A Comparison of SPM and WSPM</i> , pp. 3937-3940.	
Uchiyama, Yoshikazu	Gifu Univ.	Sun, Shaojie	Capital Medical Univ. Beijing
Kunieda, Takuya	Graduate School of Medicine, Gifu Univ.	Zhu, Liuhong	Capital Medical Univ. Beijing
Asano, Takahiko	Graduate School of Medicine, Gifu Univ.	Luo, Shuqian	Capital Medical Univ.
Kato, Hiroki	Graduate School of Medicine, Gifu Univ.	10:30-12:00	SaBPo04.16
Hara, Takeshi	Gifu Univ. Graduate Sch of Medicine	<i>Advanced MR Diffusion Characterization of Neural Tissue Using Directional Diffusion Kurtosis Analysis</i> , pp. 3941-3944.	
Kanematsu, Massayuki	gifu Univ.	Hui, Edward S.	The Univ. of Hong Kong
Iwama, Toru	Graduate School of Medicine, Gifu Univ.	Cheung, Matthew M.	The Univ. of Hong Kong
Hoshi, Hiroaki	Gifu Univ.	Qi, Liquan	The Hong Kong Pol. Univ.
Kinosada, Yasutomi	Graduate School of Medicine, Gifu Univ.	Wu, Ed X.	The Univ. of Hong Kong
Fujita, Hiroshi	Gifu Univ.	<b>SaBPo05</b>	<b>Exhibit Hall C</b>
10:30-12:00	SaBPo04.8	<b>Deformable Image Registration (Poster Session)</b>	
<i>3D Multifractal Analysis: A New Tool for Epileptic Fit Sources Detection in SPECT Images</i> , pp. 3912-3915.		10:30-12:00	SaBPo05.1
Lopes, Renaud	Inserm, U703 and Univ. of Lille1	<i>Adapting Population Liver Motion Models for Individualized Online Image-Guided Therapy</i> , pp. 3945-3948.	
Viard, Romain	CHRU Lille	Nguyen, Thao-Nguyen	Univ. of Toronto
Dewalle-Vignion, Anne-Sophie	Univ. des Sciences et Tech. de Lille	Moseley, Joanne L.	Princess Margaret Hospital
Steinling, Marc	Univ. Hospital	Dawson, Laura A.	Princess Margaret Hospital
Maouche, Salah	UST Lille	Jaffray, David A.	Univ. Health Network
Betrouni, Nacim	Inst. de Tech. Médicale	Brock, Kristy	Princess Margaret Hospital, Univ. Health Network, Univ.
10:30-12:00	SaBPo04.10	10:30-12:00	SaBPo05.2
<i>A PCA-Based Approach to the Representation and Recognition of MR Brain Midsagittal Plane Images</i> , pp. 3916-3919.		<i>Automated 2-D Cephalometric Analysis of X-Ray by Image Registration Approach Based on Least Square Approximator</i> , pp. 3949-3952.	
Zhang, Ye	Shenzhen Inst. of Advanced Integration Technology, Shenzhen In Agency for Science, Tech. and Res.	Ei-Feghi, Idris	Higher Inst. of Industry
Hu, Qingmao		Galhoud, Malak	Al-Fateh Univ.
		Ahmadi, Majid	Univ. of windsor
		Sid-Ahmed, Maher	Univ. of windsor

10:30-12:00	SaBPo05.3	10:30-12:00	SaBPo06.3
<i>Adaptive Mesh Optimization and Nonrigid Motion Recovery Based Image Registration for Wide-Field-Of-View Ultrasound Imaging</i> , pp. 3953-3956.	Tan, Chaowei Wang, Bo Liu, Paul Liu, Dong Chyuan	<i>Community Structure of Cortical Networks in Spinal Cord Injured Patients</i> , pp. 3995-3998.	De Vico Fallani, Fabrizio Sinatra, Roberta Astolfi, Laura Mattia, Donatella Cincotti, Febo Latora, Vito Salinari, Serenella Marciani, Maria Grazia Colosimo, Alfredo Babiloni, Fabio
	Sichuan Univ. Sichuan Univ. P.R. China Saset Healthcare Sichuan Univ.		Univ. La Sapienza Univ. of Catania Univ. of Rome Fondazione Santa Lucia IRCCS Fondazione Santa Lucia IRCCS Univ. of Catania La Sapienza Univ. Tor Vergata Univ. Univ. of Rome "Sapienza" Univ. of Rome
10:30-12:00	SaBPo05.4	10:30-12:00	SaBPo06.4
<i>Mutual Information Driven Inverse Consistent Nonlinear Registration</i> , pp. 3957-3960.	Tao, Guozhi He, Renjie Datta, Sushmita Narayana, Ponnada	<i>Evoked Response Denoising Using Nonlinear Diffusion Filtering of Single-Trial Matrix Representations</i> , pp. 3999-4002.	Mustaffa, Izadora
	Univ. of Texas, Medical School at Houston Univ. of Texas Medical School at Houston Univ. of Texas Health Science Center at Houston Univ. of Texas Medical School at Houston		Saarland Univ. Hospital and Saarland Univ. of Saarland Univ. Hospital Saarland Univ. Hospital Computational Diagnostics & Biocybernetics Unit
10:30-12:00	SaBPo05.5	10:30-12:00	SaBPo06.5
<i>Experimental Validation of a 4D Elastic Registration Algorithm</i> , pp. 3961-3966.	Leung, Corina Hashtrudi-Zaad, Keyvan Foroughi, Pezhman Abolmaesumi, Purang	<i>3-D Diffusion Tensor MRI Anisotropy Content-Adaptive Finite Element Head Model Generation for Bioelectromagnetic Imaging</i> , pp. 4003-4006.	Lee, Won Hee Kim, Tae-Seong Lee, Soo Yeol
	Queen's Univ. Queen's Univ. Queen's Univ. Queen's Univ.		Kyung Hee Univ. Kyung Hee Univ. Kyung Hee Univ.
10:30-12:00	SaBPo05.6	10:30-12:00	SaBPo06.6
<i>Surface Reconstruction from Planar X-Ray Images Using Moving Least Squares</i> , pp. 3967-3970.	Cresson, Thierry Godbout, Benoit Branchaud, Dominic Chav, Ramnada Gravel, Pierre de Guise, Jacques A.	<i>Cortical Network Topology During Successful Memory Encoding in a Lifelike Experiment</i> , pp. 4007-4010.	De Vico Fallani, Fabrizio Astolfi, Laura Cincotti, Febo Mattia, Donatella Soranzo, Ramon Salinari, Serenella Marciani, Maria Grazia Colosimo, Alfredo Babiloni, Fabio
	Ec. de Tech. Superieure Ec. de Tech. Superieure École de Tech. supérieure Ec. de Tech. Superieure École de Tech. Supérieure École de Tech. supérieure		Univ. La Sapienza Univ. of Rome Fondazione Santa Lucia IRCCS Fondazione Santa Lucia IRCCS Marketing Communication Consultant La Sapienza Univ. Tor Vergata Univ. Univ. of Rome "Sapienza" Univ. of Rome
10:30-12:00	SaBPo05.7		
<i>Non-Rigid Registration Based Segmentation of Brain Subcortical Structures Using a Prior Knowledge</i> , pp. 3971-3974.	Lin, Xiangbo Ruan, Su Nicolier, Frédéric Qiu, Tianshuang		
	IUT de Troyes, Univ. de Reims IUT de Troyes, Univ. de Reims IUT TROYES Dalian Univ. of Tech.		
10:30-12:00	SaBPo05.8		
<i>3D Multi-Modal Registration for Assessing Molecular Activity Changes in Time-Dependent Geometries</i> , pp. 3975-3978.	Andersson, Madelen Sakkalis, Vangelis Ripoll, Jorge Ntziachristos, Vasilis Marias, Kostas		
	Foundation for Res. and Tech. (FORTH) FORTH & Tech. Univ. of Crete FORTH Harvard Univ. HMS/MGH Foundation for Res. & Tech. Hellas		
10:30-12:00	SaBPo05.9		
<i>Optical Flow Based Volumetric Spatio-Temporal Interpolation</i> , pp. 3979-3982.	Jhunjhunwala, Priyavrat Rajagopalan, Srinivasan		
	GE Global Res. Formerly General Electric		
10:30-12:00	SaBPo05.10		
<i>Estimation of Operative Line of Resection Using Preoperative Image and Nonrigid Registration</i> , pp. 3983-3986.	Lee, Jong-Ha Won, Chang-Hee Kong, Seong		
	TEMPLE Univ. Temple Univ. Temple Univ.		
<b>SaBPo06</b>		<b>Exhibit Hall C</b>	
<b>EEG Neuroimaging (Poster Session)</b>			
10:30-12:00	SaBPo06.1	10:30-12:00	SaBPo07.1
<i>Estimation of Signal and Noise Covariance Using ICA for High-Resolution Cortical Dipole Imaging</i> , pp. 3987-3990.	Hori, Junichi	<i>An Optimization Based Approach Embedded in a Fuzzy Connectivity Algorithm for Airway Tree Segmentation</i> , pp. 4011-4014.	Yousefi Rizi, Fereshteh Ahmadian, Alireza Fatemizadeh, Emad Alirezaie, Javad
	Niigata Univ.		Medical Sciences/Univ. of Tehran Tehran Univ. of Medical Sciences Sharif Univ. of Tech. Ryerson Univ. Univ. of Waterloo
10:30-12:00	SaBPo06.2	10:30-12:00	SaBPo07.2
<i>Neuroelectromagnetic Forward Modeling Toolbox</i> , pp. 3991-3994.	Akalin Acar, Zeynep Makeig, Scott	<i>An Improved Spatial Tracking Algorithm Applied to Coronary Veins into Cardiac Multi-Slice Computed Tomography Volume</i> , pp. 4015-4018.	Garcia, Marie-Paule Toumoulin, Christine Garreau, Mireille Kulik, Carine Boulmier, Dominique Leclercq, Christophe
	Univ. of California, San Diego Univ. of California San Diego		INSERM, U642, Univ. de Rennes 1 Univ. de Rennes 1 INSERM, U642, Univ. de Rennes 1 Univ. Rennes 1 CHU Rennes CHU Rennes, INSERM U642, LTSI, Univ. of Rennes 1
		10:30-12:00	SaBPo07.3
		<i>Efficient Large Scale Image Stitching for Virtual Microscopy</i> , pp. 4019-4023.	Steckhan, Dirk Gunnar Bergen, Tobias Wittenberg, Thomas Rupp, Stephan
			Fraunhofer-Inst. for Integrated Circuits IIS Fraunhofer Inst. for Integrated Cicuits (IIS) Fraunhofer Inst. for Integrated Circuits (IIS) Fraunhofer Inst. (IIS)

10:30-12:00	SaBPo07.4	10:30-12:00	SaBPo07.13
<i>Activation of the Prefrontal Cortex During a Visual N-Back Working Memory Task with Varying Memory Load: A Near Infrared Spectroscopy Study</i> , pp. 4024-4027.		<i>The Image Feature Analysis for Microscopic Thyroid Tissue Classification</i> , pp. 4059-4062.	
Molteni, Erika	IRCCS E. Medea	Chen, Yen-Ting	Southern Taiwan Univ.
Butti, Michele	Pol. Univ.	Hou, Chun-Ju	Southern Taiwan Univ.
Bianchi, Anna Maria	Pol. di Milano	Lee, Min-Wei	Southern Taiwan Univ.
Reni, Gianluigi	IRCCS	Chen, Shao-Jer	Buddhist Dalin Tzu Chi General Hospital
		Tsai, Yao-Chuan	Southern Taiwan Univ.
		Hsu, Tzu-Hsuan	The AmRoad Tech. Inc.
10:30-12:00	SaBPo07.5	10:30-12:00	SaBPo07.14
<i>The Impact of Ablated Cortex on the Validity and Interpretation of the Fmirs Signal</i> , pp. 4028-4031.		<i>A Bayesian Hierarchical Model for Classifying Craniofacial Malformations from CT Imaging</i> , pp. 4063-4069.	
Merzagora, Anna Caterina	Drexel Univ.	Ruiz-Correa, Salvador	CIMAT
Ruocco, Anthony Charles	Drexel Univ.	Gatica-Perez, Daniel	IDIAP
Chute, Douglas	Drexel Univ.	Lin, H. Jill	Stanford
Izzetoglu, Meltem	Drexel Univ.	G. Shapiro, Linda	Univ. of Washington
Onaral, Banu	Drexel Univ.	Raymond Sze, W	Children's Natinal Medical Center
Schultheis, Maria	Drexel Univ.		
10:30-12:00	SaBPo07.6	10:30-12:00	SaBPo07.15
<i>Digital Photographic Imaging System for the Evaluation of Various Facial Skin Lesions.</i> , pp. 4032-4034.		<i>Objective Assessment of Psoriasis Erythema for PASI Scoring</i> , pp. 4070-4073.	
Bae, Youngwoo	Yonsei Univ.	Ahmad Fadzil, Mohamad Hani	Univ. Teknologi Petronas
Jung, Byungjo	Yonsei Univ.	Ihtatho, Dani	Univ. Teknologi PETRONAS
		M. Affandi, Azura	Hospital Kuala Lumpur
		Hussein, Suraiya Hani	General Hospital Kuala Lumpur
10:30-12:00	SaBPo07.7	10:30-12:00	SaBPo07.16
<i>A Feedback Retina Model for Improving Medical Images Fusion</i> , pp. 4035-4038.		<i>Automatic Working Area Classification in Peripheral Blood Smears without Cell Central Zone Extraction</i> , pp. 4074-4077.	
Daneshvar, Sabalan	Tarbiat Modares Univ.	Xiong, Wei	Inst. for Infocomm Res. A-STAR
Ghassemian, Hassan	Tarbiat Modares Univ.	Lim, Joo Hwee	Inst. for Infocomm Res.
		Ong, Sim Heng	National Univ. of Singapore
		Tung, Nn	Vietnam National Univ.- Ho Chi Minh City
10:30-12:00	SaBPo07.8		Inst. for Infocomm Res. A*STAR
<i>Medical Image Segmentation Using Watershed Segmentation with Texture-Based Region Merging</i> , pp. 4039-4042.		Liu, Jiang	CNRS
Ng, Hsiao Piau	Agency for Science Tech. and Res. Singapore	Daniel, Racoceanu	National Univ. of Singapore
		Tan, Kevin	National Univ. of Singapore
Huang, Su	Agency for Science, Tech. and Res.	Chong, Alvin	National Univ. of Singapore
Ong, Sim Heng	National Univ. of Singapore	Foong, Kelvin Weng Chiong	National Univ. of Singapore
Foong, Kelvin Weng Chiong	National Univ. of Singapore		
Goh, Poh Sun	National Univ. of Singapore		
Nowinski, L. Wieslaw	Agency for Science, Tech. & Res.		
10:30-12:00	SaBPo07.9	10:30-12:00	SaBPo07.17
<i>Unwrapping MR Phase Maps with Chebyshev Moments</i> , pp. 4043-4046.		<i>Extraction of Acne Lesion in Acne Patients from Multispectral Images</i> , pp. 4078-4081.	
Langle, Jason	Univ. of Georgia	Fujii, Hideaki	Tokyo Inst. of Tech.
Zhao, Qun	Univ. of Georgia	Yanagisawa, Takashi	Tokyo Inst. of Tech.
		Mitsui, Masanori	Tokyo Inst. of Tech.
10:30-12:00	SaBPo07.10	Murakami, Yuri	Tokyo Inst. of Tech.
<i>Assessment of Depth and Degeneration Dependences of Articular Cartilage Refractive Index Using Optical Coherence Tomography in Vitro</i> , pp. 4047-4050.		Yamaguchi, Masahiro	Tokyo Inst. of Tech.
Wang, Shu-Zhe	The Hong Kong Pol. Univ.	Ohyama, Nagaaki	Tokyo Inst. of Tech.
Huang, Yanping	The Hong Kong Pol. Univ.	Abe, Tokiya	Chiba Univ.
Wang, Qing	The Hong Kong Pol. Univ.	Yokoi, Ikumi	Kagawa Univ.
Zheng, Yongping	The Hong Kong Pol. Univ.	Matsuoka, Yoshie	Kagawa Univ.
		Kubota, Yasuo	Kagawa Univ.
10:30-12:00	SaBPo07.11	<b>SaBPo08</b>	Exhibit Hall C
<i>Detection of Subgingival Calculus through Oral Gum in Vitro Using Two-Photon Fluorescence Microscopy</i> , pp. 4051-4054.		<b>Biological Systems Networks (Poster Session)</b>	
Tung, Oi-Hong	national yang-ming Univ.	10:30-12:00	SaBPo08.1
Lee, Shyh-Yuan	National Yang-Ming Univ.	<i>Classifying the Motion of Visual Stimuli from the Spike Response of a Population of Retinal Ganglion Cells</i> , pp. 4082-4085.	
Lai, Yu-Lin	Taipei Veterans General Hospital	Cerquera, Alexander	Carl von Ossietzky Univ. of Oldenburg
Chen, How-Foo	Univ. of Yang Ming Univ.	Greschner, Martin	The Salk Inst. for Biological Studies
		Freund, Jan A.	Univ. of Oldenburg
10:30-12:00	SaBPo07.12	10:30-12:00	SaBPo08.2
<i>Detection of Suspicious Pain Regions on a Digital Infrared Thermal Image Using the Multimodal Function Optimization</i> , pp. 4055-4058.		<i>A System for Exploring and Visualizing Biological Pathways from Large Scale Datasets</i> , pp. 4086-4089.	
Lee, Junghoon	Yonsei Univ.	Jiang, Keyuan	Purdue Univ. Calumet
Lee, Joosung	MESH Co., Inc.	Robertson, Joseph	Purdue Univ.
Song, Sangha	Yonsei Univ.		
Lee, Hyun Sook	Sangji Univ.		
Lee, Kyoung Joung	Yonsei Univ.		
Yoon, Young-ro	Yonsei Univ.	10:30-12:00	SaBPo08.3
		<i>3-D Finite Element Analysis on Brain Injury Mechanism</i> , pp. 4090-4093.	
		Kurosawa, Yusuke	Meiji Univ.
		Kato, Kazuo	Meiji Univ.
		Takahashi, Tomoki	Meiji Univ.

10:30-12:00	SaBPo08.4	10:30-12:00	SaBPo09.5
<i>Multi-Class Alignment of LC-MS Data Using Probabilistic-Based Mixture Regression Models</i> , pp. 4094-4097.		<i>Measurement of Evoked Potential in Recognition of Faces and Buildings</i> , pp. 4126-4129.	
Befekadu, Getachew	Georgetown Univ.	Fujiyama, Saki	Kyushu Univ.
Tadesse, Mahlet	Georgetown Univ.	Sung, Yul-Wan	hamano
Hathout, Yetrib	Children's National Medical Center	Ogawa, Seiji	Hamano Life Science Res. Found
Ressom, Habtom	Georgetown Univ.	Hayami, Takehito	Kyushu Univ.
10:30-12:00	SaBPo08.5	Iramina, Keiji	Kyushu Univ. Japan
<i>In Silico Screening of Rac1 Ligand Specificity</i> , pp. 4098-4101.		10:30-12:00	SaBPo09.6
Arrigo, Patrizio	CNR Genova	<i>Measurements of the Mu/beta ERD and Gamma ERS During the Imagination of Body Parts Movement</i> , pp. 4130-4133.	
Maggi, Norbert	Univ. of Genoa	Matsunaga, Takahiro	Kyushu Univ.
Ruggiero, Carmelina	Univ. of Genova	Katayama, Yoshinori	Graduate School of ISEE, Kyushu Univ.
10:30-12:00	SaBPo08.6	Hayami, Takehito	Kyushu Univ.
<i>A Cluster-Aware Graphical User Interface for a Virtual Ligand Screening Tool</i> , pp. 4102-4105.		Iramina, Keiji	Kyushu Univ. Japan
Ramjan, Zachary	California State Pol. Univ. Pomona		
Raheja, Amar	California State Pol. Univ. Pomona		
Floriano, Wely	California State Pol. Univ. Pomona		
10:30-12:00	SaBPo08.7		
<i>Fractal Dimension and Wavelet Decomposition for Robust Microarray Data Clustering</i> , pp. 4106-4109.			
Istepanian, Robert	Kingston Univ.		
Sungoor, Ala	Kingston Univ.		
Jean Christophe, Nebel	Kingston Univ.		
10:30-12:00	SaBPo08.8		
<i>Complexity Evolution in Epileptic Seizure</i> , pp. 4110-4113.			
Raiesdana, Somayeh	Islamic Azad Univ.		
Hashemi Golpayegani, Mohammad Reza	Amirkabir Univ. of Tech. (Tehran Pol.)		
Motie Nasrabadi, Ali	Shahed Univ.		
<b>SaBPo09</b>	Exhibit Hall C	<b>SaBPo10</b>	Exhibit Hall C
<b>Brain Functional Imaging (Poster Session)</b>		<b>Neurological Disorders (Poster Session)</b>	
10:30-12:00	SaBPo09.1	10:30-12:00	SaBPo10.1
<i>A Comparison of Different Functional Cortical Connectivity Estimators on Multimodal Neuroelectric and Hemodynamic Recordings*</i> .		<i>The Effects of Interictal Spikes on Single Neuron Firing Patterns in the Hippocampus During the Development of Temporal Lobe Epilepsy</i> , pp. 4134-4137.	
Astolfi, Laura	Univ. of Rome	Yan, Wenjuan	Univ. of Florida
De Vico Fallani, Fabrizio	Univ. La Sapienza	Mitzelfelt, Jeremiah	Univ. of Florida
Cincotti, Febo	Fondazione Santa Lucia IRCCS	Principe, Jose	Univ. of Florida
He, Bin	Univ. of Minnesota	Sanchez, Justin C.	Univ. of Florida
Babiloni, Fabio	Univ. of Rome		
10:30-12:00	SaBPo09.2	10:30-12:00	SaBPo10.2
<i>The Time-Frequency Representation of the ERPs of Face Processing</i> , pp. 4114-4117.		<i>Using Motor Unit Potential Characterizations to Estimate Neuromuscular Disorder Level of Involvement</i> , pp. 4138-4141.	
Tang, Yingying	Shanghai Jiaotong Univ.	Pino, Lou	Univ. of Waterloo
Liu, Dan	Shanghai Univ.	Stashuk, Daniel William	Univ. of Waterloo
Li, Yingjie	Shanghai Univ.		
Qiu, Yihong	Shanghai Jiao Tong Univ.		
Zhu, Yisheng	Shanghai Jiaotong Univ. Shanghai, China		
10:30-12:00	SaBPo09.3	10:30-12:00	SaBPo10.3
<i>Non-Target Photo Images in Oddball Paradigm Improve EEG-Based Personal Identification Rates</i> , pp. 4118-4121.		<i>EVestG: A Diagnostic Measure for Schizophrenia.</i> , pp. 4142-4145.	
Touyama, Hideaki	The Univ. of Tokyo	Haghgoie, Saman	Monash Univ.
10:30-12:00	SaBPo09.4	Lithgow, Brian John	Monash Univ.
<i>Functional-MRI Correlates of Cued Slow-Eye-Closure and Task Non-Responsiveness During Visuomotor Tracking</i> , pp. 4122-4125.		Gurvich, Caroline	Alfred Hospital
Poudel, Govinda	Otago Univ.	Kulkarni, Jayashri	The Alfred & Monash Univ.
Jones, Richard D.	Van der Veer Inst.		
Innes, Carrie R. H.	Canterbury District Health Board		
Davidson, Paul Robert	Van der Veer Inst.		
Watts, Richard	Univ. of Canterbury		
Signal, T. L.	Massey Univ.		
Bones, P. J.	Univ. of Canterbury		
		10:30-12:00	SaBPo10.4
		<i>Electrophysiologic Studies of Neronal Activities under Ischemia Condition</i> , pp. 4146-4149.	
		Huang, Shun-Ho	National Cheng Kung Univ.
		Wang, Saprina, Ping-Hsien	National Cheng Kung Univ.
		Chen, Jia-Jin	National Cheng Kung Univ.
		10:30-12:00	SaBPo10.5
		<i>A Portable, Low-Cost Assessment Device for Reaching Times</i> , pp. 4150-4153.	
		Duff, Margaret	Arizona State Univ.
		Attygalle, Suneth	Arizona State Univ.
		He, Jiping	Arizona State Univ.
		Rikakis, Thanassis	Arizona State Univ.
		10:30-12:00	SaBPo10.6
		<i>Unintentional Balance Destabilization System Reliability Studies</i> , pp. 4154-4157.	
		Ezenwa, Bertram	Univ. of Wisconsin-Milwaukee
		Burns, Edith	Medical Coll. of Wisconsin
		10:30-12:00	SaBPo10.7
		<i>On the Synthesis of Multiple Frequency Tone Burst Stimuli for Efficient High Frequency Auditory Brainstem Response</i> , pp. 4158-4161.	
		Ellingson, Roger M.	Department of Veterans Affairs
		Dille, Marilyn L.	Dept. of Veterans Affairs
		Leek, Marjorie R.	Dept. of Veterans Affairs
		Fausti, Stephen A.	Department of Veterans Affairs
		10:30-12:00	SaBPo10.8
		<i>EVestG: A Measure for Meniere's Disease</i> , pp. 4162-4165.	
		Lithgow, Brian John	Monash Univ.
		Garrett, Amber	Monash
		Heibert, Daniel	Monash Univ.

10:30-12:00	SaBPo10.9	10:30-12:00	SaBPo11.1
<i>On the Single Sweep Processing of Auditory Brainstem Responses: Click vs. Chirp Stimulations and Active vs. Passive Electrodes</i> , pp. 4166-4169.	Corona-Strauss, Farah I. Delb, Wolfgang Bloching, Marc Strauss, Daniel J.	<i>Development and User Evaluation of a Virtual Rehabilitation System for Wobble Board Balance Training</i> , pp. 4194-4198.	Fitzgerald, Diarmaid Trakarnratanakul, Nanthana Dunne, Lucy Smyth, Barry Caulfield, Brian
	Saarland Univ. Hospital Saarland Univ. Hospital Saarland Univ. Hospital Computational Diagnostics & Biocybernetics Unit		Univ. Coll. Dublin Univ. Coll. Dublin Univ. Coll. Dublin Univ. Coll. Dublin UCD
10:30-12:00	SaBPo10.10	10:30-12:00	SaBPo11.1
<i>Effect of Grip Location, Arm Support, and Muscle Stretch on Sustained Finger Flexor Activity Following Stroke</i> , pp. 4170-4173.	Seo, Na Jin Kamper, Derek	<i>Predicting End-Point Locomotion from Neuromuscular Activities of People with Spina Bifida: A Self-Organizing and Adaptive Technique for Future Implantable and Non-Invasive Neural Prostheses</i> , pp. 4203-4207.	Chang, Chia-Lin Jin, Zhanpeng Cheng, Allen C.
	Rehabilitation Inst. of Chicago Rehabilitation Inst. of Chicago and Illinois Inst. Tec		Univ. of Pittsburgh Univ. of Pittsburgh Univ. of Pittsburgh
10:30-12:00	SaBPo10.11	10:30-12:00	SaBPo11.2
<i>A Clinical Evaluation on the Spatial Patterns of Non-Invasive Motor Imagery-Based Brain-Computer Interface in Stroke</i> , pp. 4174-4177.	Ang, Kai Keng Guan, Cuntai Chua, Karen Sui Geok	<i>Scaling Limitations of Laser-Fabricated Nerve Electrode Arrays</i> , pp. 4208-4211.	Henle, Christian Schuettler, Martin Ordonez, Juan Sebastian
	Inst. for Infocomm Res. Inst. for Infocomm Res. Tan Tock Seng Hospital Rehabilitation Centre		Univ. of Freiburg Univ. of Freiburg Albert-Ludwigs Univ. Inst. für Mikrosystemtechnik (IMTE Univ. of Freiburg
	Ang, Beng Ti Kuah, Christopher Wee Keong		Stieglitz, Thomas
	National Neuroscience Inst. Tan Tock Seng Hospital Rehabilitation Centre		SaBPo11.3
	Wang, Chuanchu Phua, Koksoon Chin, Zheng Yang Zhang, Haihong	<i>Multi-Finger Structure and Pulsed-Powering Operation Scheme for CMOS LSI-Based Flexible Stimulator for Retinal Prosthesis</i> , pp. 4212-4215.	<i>Multi-Finger Structure and Pulsed-Powering Operation Scheme for CMOS LSI-Based Flexible Stimulator for Retinal Prosthesis</i> , pp. 4212-4215.
	Inst. for Infocomm Res. Inst. for Infocomm Res. Inst. for Infocomm Res. Inst. for Infocomm Res.		Tokuda, Takashi Asano, Ryosuke Terasawa, Yasuo Fujikado, Takashi Tano, Yasuo Ohta, Jun
10:30-12:00	SaBPo10.12		Nara Inst. of Science & Tech. Nara Inst. of Science and Tech. NIDEK Co. Osaka Univ. Osaka Univ. Nara Inst. of Science and Tech.
<i>A Clinical Evaluation of Non-Invasive Motor Imagery-Based Brain-Computer Interface in Stroke</i> , pp. 4178-4181.	Ang, Kai Keng Guan, Cuntai Chua, Karen Sui Geok	10:30-12:00	SaBPo11.4
	Inst. for Infocomm Res. Inst. for Infocomm Res. Tan Tock Seng Hospital Rehabilitation Centre	<i>Application of EEG Source Localization Algorithms to the Monitoring of Active Pathways in Peripheral Nerves</i> , pp. 4216-4219.	Zariffa, Jose Popovic, Milos R.
	Ang, Beng Ti Kuah, Christopher Wee Keong		Univ. of Toronto Univ. of Toronto
	National Neuroscience Inst. Tan Tock Seng Hospital Rehabilitation Centre	10:30-12:00	SaBPo11.5
	Wang, Chuanchu Phua, Koksoon Chin, Zheng Yang Zhang, Haihong	<i>A New Chronic Neural Probe with Electroplated Iridium Oxide Microelectrodes</i> , pp. 4220-4221.	Han, Martin McCreery, D
	Inst. for Infocomm Res. Inst. for Infocomm Res. Inst. for Infocomm Res. Inst. for Infocomm Res.		Huntington Medical Res. Inst. HuntingtonMedicalResearchInstitutes
10:30-12:00	SaBPo10.13	10:30-12:00	SaBPo11.6
<i>Monitoring of Global Cerebral Ischemia Using Instantaneous Phase Variation Plots</i> , pp. 4182-4185.	El-Wakil, Ahmed Al-Nashash, Hasan Thakor, Nitish	<i>A Quadratic Particle Swarm Optimization Method for Magnetic Tracking of Tongue Motion in Speech Disorders</i> , pp. 4222-4225.	Wang, Jia Huo, Xueliang Ghovanloo, Maysam
	Sharjah Univ. American Univ. of Sharjah Johns Hopkins Univ.		North Carolina State Univ. Georgia Inst. of Tech. Georgia Inst. of Tech.
10:30-12:00	SaBPo10.14	10:30-12:00	SaBPo11.7
<i>Multiple Vibration Intensities and Frequencies for Bone Mineral Density Improvement</i> , pp. 4186-4189.	Ezenwa, Bertram Burns, Edith Wilson, Charles	<i>Modeling Transcranial DC Stimulation</i> , pp. 4226-4229.	Oostendorp, Thom Hengeveld, Yvonne Wolters, Carsten Stinstra, Jeroen van Elswijk, Gijs Stegeman, Dick
	Univ. of Wisconsin-Milwaukee Medical Coll. of Wisconsin Medical Coll. of Wisconsin		Radboud Univ. Nijmegen Medical Centre Radboud Univ. Nijmegen Medical Centre Univ. of Muenster Univ. of Utah Radboud Univ. Nijmegen Medical Centre Radboud Univ. Nijmegen Medical Centre
<b>SaBPo11</b>		<b>SaBPo11.8</b>	
<b>Rehabilitation Technologies (Poster Session)</b>		<b>Exhibit Hall C</b>	
10:30-12:00	SaBPo11.1	10:30-12:00	SaBPo11.8
<i>Wireless Control of Powered Wheelchairs with Tongue Motion Using Tongue Drive Assistive Technology</i> , pp. 4199-4202.	Huo, Xueliang Wang, Jia Ghovanloo, Maysam	<i>Audio Aided Electro-Tactile Perception Training for Finger Posture Biofeedback</i> , pp. 4230-4233.	Gonzalez Vargas, Jose Eduardo Yu, Wenwei
	Georgia Inst. of Tech. North Carolina State Univ. Georgia Inst. of Tech.		Chiba Univ. Univ. of Chiba
10:30-12:00	SaBPo11.1	10:30-12:00	SaBPo11.9
<i>Modeling and Evaluation of Human Motor Skills in a Virtual Tennis Task</i> , pp. 4190-4193.	Tanaka, Yoshiyuki Ishii, Masataka Tsuji, Toshio Imamura, Nobuaki	<i>Bayesian Recursive Algorithm for Width Estimation of Freespace for a Power Wheelchair Using Stereoscopic Cameras</i> , pp. 4234-4237.	Nguyen, Thanh Hai Nguyen, Jordan Son Nguyen, Hung T.
	Hiroshima Univ. Hiroshima Univ. Hiroshima Univ. Hiroshima Kokusai Univ.		Univ. of Tech. Sydney Univ. of Tehcnology, Sydney Univ. of Tech. Sydney



10:30-12:00	SaBPo11.10	10:30-12:00	SaBPo11.20
<i>Virtual Proprioception with Real-Time Step Detection and Processing</i> , pp. 4238-4241.		<i>Task Oriented Joint Moment Generation in Virtual Reality Environment Using a Goniogram Controlled Dynamometer</i> , pp. 4278-4281.	
LeMoyné, Robert	UCLA	Cikajlo, Imre	Inst. for Rehabilitation Republic of Slovenia
Coroian, Cristian	UCLA	Tomšič, Igor	Inst. for rehabilitation, Republic of Slovenia
Mastroianni, Timothy	Cognition Engineering	Klemen, Ana	Inst. for rehabilitation Republic of Slovenia
Wu, Winston	Univ. of California, Los Angeles		
Grundfest, Warren S.	UCLA		
Kaiser, William	Univ. of California, Los Angeles	10:30-12:00	SaBPo11.21
10:30-12:00	SaBPo11.11	<i>Development of Virtual Reality Exercise of Hand Motion Assist Robot for Rehabilitation Therapy by Patient Self-Motion Control</i> , pp. 4282-4285.	
<i>Design and On-Line Evaluation of Type-2 Fuzzy Logic System-Based Framework for Handling Uncertainties in BCI Classification</i> , pp. 4242-4245.		Ueki, Satoshi	Gifu Univ.
Herman, Pawel	Univ. of Ulster	Nishimoto, Yutaka	Gifu Univ. School of Medicine
Prasad, Girijesh	Univ. of Ulster	Abe, Motoyuki	Gifu Central Hospital
McGinnity, T. Martin	Univ. of Ulster	Kawasaki, Haruhisa	Gifu Univ.
10:30-12:00	SaBPo11.12	Ito, Satoshi	Gifu Univ.
<i>Ultrasound Induced Increase in Excitability of Single Neurons</i> , pp. 4246-4249.		Ishigure, Yasuhiko	Marutomi Seikou Co. Ltd.
Phillips, William	Arizona State Univ.	Mizumoto, Jun	Marutomi Seikou Co., Ltd.
Khraiche, Massoud	Arizona State Univ.	Ojika, Takeo	Marutomi Seikou Co., Ltd.
Jackson, Nathan	Arizona State Univ.		
Muthuswamy, Jit	Arizona State Univ.	10:30-12:00	SaBPo11.22
10:30-12:00	SaBPo11.13	<i>The Numeric Calculation of Eddy Current Distributions in Transcranial Magnetic Stimulation Using Realistic Human Head Model</i> , pp. 4286-4289.	
<i>Powered AFO for Achilles Tendon Rupture</i> , pp. 4250-4253.		Tsuyama, Seichi	Kyushu Univ.
Yoshizawa, Nobuyuki	Nippon Inst. of Tech.	Hyodo, Akira	Kyushu Univ.
10:30-12:00	SaBPo11.14	Sekino, Masaki	Univ. of Tokyo
<i>Shared Control Strategies for Obstacle Avoidance Tasks in an Intelligent Wheelchair</i> , pp. 4254-4257.		Hayami, Takehito	Kyushu Univ.
Trieu, Tuyen Hoang	Univ. of Tech. Sydney	Iramina, Keiji	Kyushu Univ. Japan
Nguyen, Hung T.	Univ. of Tech. Sydney		
Willey, Keith	Univ. of Tech. Sydney	10:30-12:00	SaBPo11.23
10:30-12:00	SaBPo11.15	<i>Design and Implementation of Visual-Haptic Assistive Control System for Virtual Rehabilitation Exercise and Teleoperation Manipulation</i> , pp. 4290-4293.	
<i>Supervisory Controller Design for a Robot-Assisted Reach-To-Grasp Rehabilitation Task</i> , pp. 4258-4261.		Veras, Eduardo	Univ. of South Florida
Wang, Furai	Vanderbilt Univ.	De Laurentis, Kathryn	Univ. of South Florida
Sarkar, Nilanjan	Vanderbilt Univ.	Dubey, Rajiv	Univ. of South Florida
10:30-12:00	SaBPo11.16	10:30-12:00	SaBPo11.24
<i>Measurement of Reaching Movement with 6-DOF Upper Rehabilitation System "Robotherapist"</i> , pp. 4262-4265.		<i>Rehabilitation Instrument for Prevent Contracture of Ankle Using the Pneumatic Balloon Actuator</i> , pp. 4294-4297.	
Kikuchi, Takehito	Osaka Univ.	Saga, Norihiko	Akita Prefectural Univ.
Oda, Kunihiko	Osaka Electro-Communication Univ.	Saito, Naoki	Akita Prefectural Univ.
Isozumi, Shiro	Osaka Univ.		
Ohyama, Yuuki	Osaka Univ.	<b>SaBPo12</b>	Exhibit Hall C
Shichi, Naoto	Osaka Univ.	<b>Robotics for Rehabilitation and Clinical Evaluation Posters</b>	
Furusuo, Junji	Osaka Univ.	(Poster Session)	
10:30-12:00	SaBPo11.17	10:30-12:00	SaBPo12.1
<i>A System Design of Gait Training Device for Monoplegia Patients</i> , pp. 4266-4269.		<i>A Light Sterilizable Pipette Device for the in Vivo Estimation of Human Soft Tissues Constitutive Laws</i> , pp. 4298-4301.	
Cho, Jongman	Inje Univ.	Schiavone, Patrick	CNRS
Choi, Junghyeon	Inje Univ.	Boudou, Thomas	TIMC IMAG
Park, Junho	Inje Univ.	Promayon, Emmanuel	Univ. Joseph Fourier
10:30-12:00	SaBPo11.18	Perrier, Pascal	Grenoble Inst. National Pol. - CNRS UMR5216
<i>Effect of the Different Winding Methods of Coil on Electromagnetic Field During Transcranial Magnetic Stimulation</i> , pp. 4270-4273.		Payan, Yohan	Lab. TIMC-IMAG, UMR CNRS 5525
Yang, Shuo	Hebei Univ. of Tech.	10:30-12:00	SaBPo12.2
Xu, Guizhi	Hebei Univ. of Tech.	<i>Resolving Subjects and Measuring Observer/Subject Distances with a Thermal Tactile Imager</i> , pp. 4302-4305.	
Wang, Lei	Hebei Univ. of Tech.	Do, David	Univ. of Minnesota
Zhang, Xiu	Hebei Univ. of Tech.	Riehle, Timothy	Koronis Biomedical Tech. Corp.
10:30-12:00	SaBPo11.19	Solinsky, Ryan	Univ. of Minnesota
<i>Design Optimization of an Above-Knee Prosthesis Based on the Kinematics of Gait</i> , pp. 4274-4277.		Assadi, Pouyan	Univ. of Minnesota
Pejhan, Shabnam	Sharif Univ. of Tech.	Hilleshiem, Christopher	Univ. of Minnesota - Twin Cities
Farahmand, Farzam	Sharif Univ. of Tech.	Vu, An	Univ. of Minnesota, Twin Cities
Parnianpour, Mohammad	Sharif Univ. of Tech.	Velie, Troy	Univ. of Minnesota - Twin Cities
		Seifert, Gregory John	Advanced Medical Electronics
		10:30-12:00	SaBPo12.3
		<i>Design of a Continuous Passive and Active Motion Device for Hand Rehabilitation</i> , pp. 4306-4309.	
		Birch, Benjamin John	Univ. of Victoria
		Haslam, Ed	Univ. of Victoria
		Heerah, Imtehaze	Camosun Coll.
		Dechev, Nikolai	Univ. of Victoria
		Park, Edward J.	Univ. of Victoria

10:30-12:00	SaBPo12.4		10:30-12:00	SaBPo13.8
<i>Design Framework for a Simple Robotic Ankle Evaluation and Rehabilitation Device</i> , pp. 4310-4313.			<i>OLDES: New Solution for Long-Term Diabetes Compensation Management</i> , pp. 4346-4349.	
Syrseloudis, Christos	Univ. of Athens		Novak, Daniel	Czech Tech. Univ. in Prague
Emiris, Ioannis	Univ. of Athens		Stepankova, Olga	CTU in Prague
Maganaris, Constantinos	Manchester Metropolitan Univ.		Mraz, Milos	Charles Univ.
Lilas, Theodoros	Univ. of the Aegean		Haluzik, Martin	Charles Univ.
			Massimo, Busuoli	ENEA
10:30-12:00	SaBPo12.5		Uller, Miroslav	Czech Tech. Univ. in Prague
<i>Control Strategies for Smart Prosthetic Hand Technology: An Overview</i> , pp. 4314-4317.			Maly, Karel	Czech Tech. Univ. in Prague
Naidu, D Subbaram	Idaho State Univ.		Novakova, Lenka	CTU in Prague
Chen, Chenghung	Idaho State Univ.		Novak, Petr	Czech Tech. Univ. in Prague
Perez, Alba	Idaho State Univ.			
Schoen, Marco P.	Idaho State Univ.		10:30-12:00	SaBPo13.9
			<i>Two Intelligent Order Viewers for Chronic Condition Patients on Clinical Information System</i> , pp. 4350-4353.	
			Toyoda, Shuichi	Jobu Univ.
<b>SaBPo13</b>	Exhibit Hall C			
<b>Decision Support and Trend Analysis Posters (Poster Session)</b>			<b>SaBPo14</b>	Exhibit Hall C
10:30-12:00	SaBPo13.1		<b>Thermal Therapies (Poster Session)</b>	
<i>Bayesian-Based Diagnostic Decision-Support for Pediatrics</i> , pp. 4318-4321.			10:30-12:00	SaBPo14.1
Pyper, Catherine	-		<i>A Low Cost Light Diffuser Made of Metal Coil</i> , pp. 4354-4357.	
Frize, Monique	Carleton Univ.		Morita, Nozomi	Keio Univ.
Lindgaard, Gitte	Carleton Univ.		Arai, Tsunenori	Keio Univ.
10:30-12:00	SaBPo13.2		10:30-12:00	SaBPo14.2
<i>Multi-Dimensional Temporal Abstraction and Data Mining of Medical Time Series Data: Trends and Challenges</i> , pp. 4322-4325.			<i>Selective Laser Suture Lysis with a Compact, Low-Cost, Red Diode Laser</i> , pp. 4358-4360.	
Catley, Christina	Univ. of Ontario Inst. of Tech.		Shein, Petr	Univ. of North Carolina at Charlotte
Stratti, Heidi	Univ. of Western Sydney		Cilip, Christopher	Univ. of North Carolina at Charlotte
McGregor, Carolyn	Univ. of Ontario Inst. of Tech.		Quinto, Guilherme	Johns Hopkins Medical Inst.
10:30-12:00	SaBPo13.3		Ashley, Behrens	Johns Hopkins Medical Inst.
<i>Integration of New Technology in a Legacy System for Collecting Medical Data – Challenges and Lessons Learned</i> , pp. 4326-4329.			Fried, Nathaniel	Univ. of North Carolina at Charlotte
Gilchrist, Jeff	Carleton Univ.		10:30-12:00	SaBPo14.3
Frize, Monique	Carleton Univ.		<i>Photosensitization Reaction-Induced Electrical Blockade in Myocardial Tissue</i> , pp. 4361-4363.	
Barciak, Erika	Univ. of Ottawa		Ito, Arisa	Keio Univ.
Townsend, Daphne	Carleton Univ.		Hosokawa, Shuntaro	Keio Univ.
10:30-12:00	SaBPo13.4		Miyoshi, Shunichiro	Keio Univ.
<i>Analysis of Computer-Supported Oral Anticoagulant Treatment Follow-Up Workflow</i> , pp. 4330-4332.			Soejima, Kyoko	Keio Univ.
Niiranen, Samuli	Tampere Univ. of Tech.		Arai, Tsunenori	Keio Univ.
Yli-Hietanen, Jari	Tampere Univ. of Tech.		10:30-12:00	SaBPo14.4
10:30-12:00	SaBPo13.5		<i>Finite Element Analysis of the Needle Type Applicator Made of Shape Memory Alloy</i> , pp. 4364-4367.	
<i>Pursuit for the Knowledge of a Cardiology Expert – a Hidden Poll Methodology</i> , pp. 4333-4336.			Yabuhara, Tadao	Meiji Univ.
Augustyniak, Piotr	AGH Univ. of Science and Tech.		Kato, Kazuo	Meiji Univ.
10:30-12:00	SaBPo13.6		Kanazawa, Yoshihiro	Meiji Univ.
<i>Imputation of Missing Values by Integrating Neural Networks and Case-Based Reasoning</i> , pp. 4337-4341.			10:30-12:00	SaBPo14.5
Ennett, Colleen M.	Philips Res. North America		<i>Electromagnetic-Thermal Analysis of an RF Rectangular Resonant Cavity Applicator for Hyperthermia Targeting Deep-Seated Tumors Using a Human Model with Blood Flow and Fat Layer</i> , pp. 4368-4371.	
Frize, Monique	Carleton Univ.		Tange, Yutaka	Maizuru National Coll. of Tech.
Walker, C. Robin	IWK Health Centre		Kanai, Yasushi	Niigata Inst. of Tech.
10:30-12:00	SaBPo13.7		Saitoh, Yoshiaki	Niigata Univ.
<i>Emergency Recognition System Based on Multimodal Information</i> , pp. 4342-4345.			10:30-12:00	SaBPo14.6
Kim, Young-Un	Wonkwang Univ.		<i>Improvement of Needle Type Applicator Made of Shape Memory Alloy</i> , pp. 4372-4375.	
Kang, Sun-Kyung	Wonkwang Univ.		Kanazawa, Yoshihiro	Meiji Univ.
So, In-Mi	Wonkwang Univ.		Kato, Kazuo	Meiji Univ.
Han, Dae-kyoung	wonkwang Univ.		Yabuhara, Tadao	Meiji Univ.
Lee, Sang-Seol	Wonkwang Univ.		10:30-12:00	SaBPo14.7
Lee, Young-Ju	Wonkwang Univ.		<i>Development of Automatic Impedance Matching System for Hyperthermia Treatment Using Resonant Cavity Applicator</i> , pp. 4376-4379.	
Jung, Sung-Tae	Wonkwang Univ.		Shindo, Yasuhiro	Meiji Univ.
			Kato, Kazuo	Meiji Univ.
			Hirashima, Taku	Meiji Univ.
			Yabuhara, Tadao	Meiji Univ.
			10:30-12:00	SaBPo14.8
			<i>Regional Heating by Insertion of Dielectrics and Rotation of the Focused Electric Field in the Hyperthermia</i> , pp. 4380-4383.	
			Kameyama, Yasuyuki	Nagaoka Univ. of Tech.
			Ishihara, Yasutoshi	Nagaoka Univ. of Tech.

10:30-12:00	SaBPo14.9	14:15-14:30	SaCT2.2
<i>Noninvasive Temperature Measurement Method for a Hyperthermia Treatment Using Ferromagnetic Implant with Low Curie Temperature.</i> , pp. 4384-4386.		<i>Quantitatively Interpreting Fmri Signal</i> , pp. 4415-4418.	
Mitobe, Kazutaka	AKITA Univ.	Zhang, Nanyin	Univ. of Minnesota
Yoshimura, Noboru	Akita Univ.	Zhu, Xiao-Hong	Univ. of Minnesota
		Liu, Zhongming	Univ. of Minnesota
		He, Bin	Univ. of Minnesota
		Chen, Wei	Univ. of Minnesota
10:30-12:00	SaBPo14.10	14:30-14:45	SaCT2.3
<i>Radiofrequency Dosimetry in Subjects Implanted with Metallic Straight Wires: A Numerical Study</i> , pp. 4387-4390.		<i>A Supervised Method to Assist the Diagnosis and Classification of the Status of Alzheimer's Disease Using Data from an Fmri Experiment</i> , pp. 4419-4422.	
Mattei, Eugenio	Italian National Inst. of Health	Tripoliti, Evanthia	Univ. of Ioannina
Calcagnini, Giovanni	Italian National Inst. of Health	Fotiadis, Dimitrios I.	Univ. of Ioannina
Censi, Federica	Italian National Inst. of Health	Argyropoulou, Maria	Medical School Univ. of Ioannina
Triventi, Michele	Italian National Inst. of Health		
Bartolini, Pietro	Italian National Inst. of Health		
<b>SaCT1</b> Ballroom A		<b>SaCT2.4</b>	
<b>Principal Component Analysis (Oral Session)</b>		<i>Exploring Interregional Brain Interactivity in Temporal Lobe Epilepsy Using Partial Correlation Analysis of Fmri Data</i> , pp. 4423-4426.	
14:00-14:15	SaCT1.1	Tana, Maria Gabriella	Pol. Univ. of Milan
<i>Allocation of Processing Resources between Right and Left Spatial Attention</i> , pp. 4391-4394.		Bianchi, Anna Maria	Pol. di Milano
Li, Ling	Univ. of Electronics Sci & Tech.	Vitali, Paolo	National Neurological Inst. "C.Besta"
Li, Bin	Univ. of electronics science and Tech. of China	Villani, Flavio	National Neurological Inst. "C.Besta"
		Cerutti, Sergio	Pol. Univ. of Milan
14:15-14:30	SaCT1.2	15:00-15:15	SaCT2.5
<i>Subspace Techniques to Remove Artifact from EEG: A Quantitative Analysis</i> , pp. 4395-4398.		<i>Subspace Identification Methods and Fmri Analysis</i> , pp. 4427-4430.	
Teixeira, Ana Rita	Univ. de Aveiro	Tauchmanová, Jana	Faculty of Electrical Engineering, CzechTechnicalUniversity
Tome, Ana Maria	Univ. de Aveiro		FEE CTU Prague
Lang, Elmar W.	Univ. of Regensburg	Hromcik, Martin	
Martins da Silva, Antonio	Hospital Santo Antonio and ICBAS/IBMC-Univ. of Porto	15:15-15:30	SaCT2.6
		<i>A Non-Voxel Based Feature Extraction to Detect Cognitive States in Fmri</i> , pp. 4431-4434.	
14:30-14:45	SaCT1.3	Dua, Sumeet	Louisiana Tech. Univ.
<i>Dimension Reduction Based on Local Non-Linear Principal Component Analysis*</i> .		Srinivasan, Priti	Louisiana Tech. Univ.
Makki, Behrooz	Amirkabir Univ. of Tech.		
Noori Hosseini, Mona	Amirkabir Univ. of Tech.		
Seyedsalehi, Seyyed Ali	Amirkabir Univ. of Tech.		
14:45-15:00	SaCT1.4	<b>SaCT3</b> Ballroom C	
<i>A Least Square DFT Method for Sub-Sample Fetal Heart Rate Estimation under Noisy Conditions</i> , pp. 4399-4402.		<b>E-Health, M-Health and P-Health: Signals (Oral Session)</b>	
Sahin, Ismet	Univ. of Pittsburgh	14:00-14:15	SaCT3.1
Yilmazer, Nuri	Texas A&M Univ.	<i>An Indoor Navigation System to Support the Visually Impaired</i> , pp. 4435-4438.	
15:00-15:15	SaCT1.5	Riehle, Timothy	Koronis Biomedical Tech. Corp.
<i>Application of Multiple Correspondence Analysis to Asses the Relation between Time after Transplantation and Sympathetic Activity in Cardiac Transplant Recipient</i> , pp. 4403-4406.		Lichter, Patrick	Koronis Biomedical Tech.
Wong C, Sara	Univ. Simon Bolivar	Giudice, Nicholas	Univ. of California, Santa Barbara
Carrault, Guy	Univ. de Rennes 1		
Kervio, Gaelle	Rennes I Univ.	14:15-14:30	SaCT3.2
Cruz, Julio	Simon Bolivar Univ.	<i>Wireless Transmission of Neuronal Recordings Using a Portable Real-Time Discrimination/Compression Algorithm</i> , pp. 4439-4442.	
Bansard, Jean-Yves	Rennes I Univ.	Goh, Aik	Univ. of Florida
Carré, Francois	Rennes I Univ.	Craciun, Stefan	Univ. of Florida
		Rao, Sudhir	Univ. of Florida
		Cheney, David	Univ. of Florida
		Gugel, Karl	Univ. of Florida
		Sanchez, Justin C.	Univ. of Florida
		Principe, Jose	Univ. of Florida
15:15-15:30	SaCT1.6	14:30-14:45	SaCT3.3
<i>Evaluation of a Neyman-Pearson Heart-Rate Turbulence Detector</i> , pp. 4407-4410.		<i>Single Access Point Localisation for Wearable Wireless Sensors</i> , pp. 4443-4446.	
Martínez, Juan Pablo	Univ. of Zaragoza	Kelly, Damian	National Univ. of Ireland, Maynooth
Laguna, Pablo	Zaragoza Univ.	McLoone, Sean F.	National Univ. of Ireland, Maynooth
Solem, Kristian	Lund Univ.	Logan, Beth	Intel Digital Health
Sornmo, Leif	Lund Univ.	Dishongh, Terrance	intel Corp.
<b>SaCT2</b> Ballroom B		14:45-15:00	SaCT3.4
<b>Functional Image Analysis (Oral Session)</b>		<i>Active Monitoring Insole: A Wearable Device for Monitoring Foot Load Distribution in Home-Care Context</i> , pp. 4447-4450.	
14:00-14:15	SaCT2.1	Cavalleri, Matteo	IRCCS E.MEDEA
<i>Fmri Binary Detection of Brain Activated Regions with Graph-Cuts</i> , pp. 4411-4414.		Reni, Gianluigi	IRCCS
Coelho, Joana	Inst. de Sistemas e Róbitca / Inst. Superior Tecnico	15:00-15:15	SaCT3.5
Sanches, João	Inst. de Sistemase Robótica	<i>Advancing from Offline to Online Activity Recognition with Wearable Sensors</i> , pp. 4451-4454.	
		Ermes, Miikka	VTT Tech. Res. Centre
		Pärkkä, Juha	VTT
		Cluitmans, Luc	VTT

15:15-15:30	SaCT3.6	15:15-15:30	SaCT5.6
<i>Non-Contact Heartbeat Sensor Using LC Oscillator Circuit</i> , pp. 4455-4458.	KAIST	<i>Extraction of SSVEP Signals of a Capacitive EEG Helmet for Human Machine Interface</i> , pp. 4495-4498.	
Oum, Joon Ho	KAIST	Oehler, Martin	TU Braunschweig
Koo, Hyunji	KAIST	Neumann, Peter	TU Braunschweig
Hong, Songcheol	KAIST	Becker, Matthias	TU Braunschweig
		Curio, Gabriel	Charité - Univ. Medicine Berlin
		Schilling, Meinhard	TU Braunschweig
<b>SaCT4</b>	Room 11 & 12	<b>SaCT6</b>	Room 2 & 3
<b>Ultrasound Imaging and Ablation Therapy (Minisymposium)</b>		<b>Health Technology (Oral Session)</b>	
Organizer: Vaezy, Shahram	Univ. of Washington	14:00-14:15	SaCT6.1
14:00-14:15	SaCT4.1	<i>Survey of Clinical Engineering Effectiveness in Developing World Hospitals: Equipment Resources, Procurement and Donations</i> , pp. 4499-4502.	
<i>4D Ultrasound Image-Guided HIFU Therapy</i> , pp. 4459-4462.		Mullally, Shauna	Carleton Univ.
Ziadloo, Ali	Univ. of Washington	Frize, Monique	Carleton Univ.
Vaezy, Shahram	Univ. of Washington	14:15-14:30	SaCT6.2
14:15-14:30	SaCT4.2	<i>Electromagnetic Interference to Infusion Pumps from Wireless Communication Technologies: Update 2008</i> , pp. 4503-4506.	
<i>Observing Ultrasound Stimulated Microbubble Dynamics at MHz Framing Rates</i> , pp. 4463-4466.		Calcagnini, Giovanni	Italian National Inst. of Health
Prentice, Paul	Dundee Univ.	Censi, Federica	Italian National Inst. of Health
Campbell, Paul	Univ. of Dundee	Triventi, Michele	Italian National Inst. of Health
14:30-14:45	SaCT4.3	Mattei, Eugenio	Italian National Inst. of Health
<i>Ultrasound Histotripsy and the Destruction of Escherichia Coli Biofilms (I)</i> , pp. 4467-4470.		Lo Sterzo, Roberto	Ministry of Communication
Bigelow, Timothy	Univ. of North Dakota	Marchetta, Elia	Ministry of Communication
Northagen, Trevor	Univ. of North Dakota	Bartolini, Pietro	Italian National Inst. of Health
Hill, Thomas M.	Univ. of North Dakota	14:30-14:45	SaCT6.3
Sailer, Frances	Univ. of North Dakota	<i>In-House Monitoring of Low-Back-Pain Related Disability (IMPAIRED)</i> , pp. 4507-4510.	
14:45-15:00	SaCT4.4	Chhikara, Aakanksha	Imperial Coll. London
<i>Therapy Planning and Monitoring of Tissue Ablation by High Intensity Focused Ultrasound (HIFU) Using Imaging and Simulation (I)</i> , pp. 4471-4471.		Rice, Andrew	Imperial Coll. London
Amin, Viren	Iowa State Univ.	McGregor, Alison	Imperial Coll. London
15:00-15:15	SaCT4.5	Bello, Fernando	Imperial Coll. London
<i>Ultrasound-Enhanced Drug and Gene Delivery: A Review (I)</i> , pp. 4472-4472.		14:45-15:00	SaCT6.4
Zderic, Vesna	The George Washington Univ.	<i>A Mobile Robot Therapist for Under-Supervised Training with Robot/Computer Assisted Motivating Systems</i> , pp. 4511-4514.	
		Shakya, Yuniya	Marquette Univ.
<b>SaCT5</b>	Room 1	Johnson, Michelle	Medical Coll. of Wisconsin
<b>Brain-Machine Interfaces - Sensation, Cognition, &amp; Learning (Oral Session)</b>		15:00-15:15	SaCT6.5
14:00-14:15	SaCT5.1	<i>Indicators to Estimate Radiographic Film Savings Due to a PACS in a Mexican Health Institute</i> , pp. 4515-4518.	
<i>Mental Task Classification against the Idle State: A Preliminary Investigation</i> , pp. 4473-4477.		Lemus-Martinez, Cecilia	UAM - Iztapalapa
Dyson, Matthew	Univ. of Essex	Ortiz-Posadas, Martha	Univ. Autónoma Metropolitana
Sepulveda, Francisco	Univ. of Essex	Pimentel-Aguilar, Ana Bertha	Inst. Nacional de Enfermedades Res.
Gan, John Q.	Univ. of Essex, UK		
14:15-14:30	SaCT5.2	<b>SaCT7</b>	Room 8 & 15
<i>A Brain Computer Interface Based on Motion-Onset VEPs</i> , pp. 4478-4481.		<b>Posture and Balance (Oral Session)</b>	
Guo, Fei	Tsinghua Univ.	14:00-14:15	SaCT7.1
Hong, Bo	Tsinghua Univ.	<i>Theoretical Optimization of Usage of Four-Wheeled Walker and Body Posture of Elderly Users for Comfortable Steady Walking</i> , pp. 4519-4522.	
Gao, Xiaorong	Tsinghua Univ.	Takanokura, Masato	Kanagawa Univ.
Gao, Shangkai	Tsinghua Univ.	14:15-14:30	SaCT7.2
14:30-14:45	SaCT5.3	<i>Reflex Changes Associated with Anticipatory Postural Adjustments Preceding Voluntary Arm Movements in Standing Humans</i> , pp. 4523-4526.	
<i>Model-Based Responses and Features in Brain Computer Interfaces</i> , pp. 4482-4485.		Vedula, Siddharth	McGill Univ.
Kamrunnahar, Mst (Kamrun)	The Pennsylvania State Univ.	Stapley, Paul	McGill Univ.
Dias, Nuno S.	Univ. of Minho	Kearney, Robert Edward	McGill Univ.
Schiff, Steven	Pennsylvania State Univ.	14:30-14:45	SaCT7.3
Gluckman, Bruce	Pennsylvania State Univ.	<i>Accelerometer versus Foot-Switch Evaluation of Gait Unsteadiness and Temporal Characteristics of Gait in Two Elderly Patient Groups</i> , pp. 4527-4530.	
14:45-15:00	SaCT5.4	Barrett, Alan	National Univ. of Ireland, Galway
<i>Adapting Human-Machine Interfaces to User Performance</i> , pp. 4486-4490.		O'Connor, Margaret	St Camillus Hospital
Danziger, Zachary	Northwestern Univ.	Culhane, Karen	Univ. of Limerick
Fishbach, Alon	Rehabilitation Inst. of Chicago	M.Finucane, Ann	St. Camillus Hospital
Mussa-Ivaldi, Ferdinando	Rehabilitation Inst. of Chicago	Mulkerin, Eamonn	Univ. Coll. Hospital Galway
15:00-15:15	SaCT5.5	Lyons, Declan	St. Camillus Hospital
<i>Neuronal Tuning in a Brain-Machine Interface During Reinforcement Learning</i> , pp. 4491-4494.		ÓLaighin, Gearóid	National Univ. of Ireland, Galway
Mahmoudi, Babak	Univ. of Florida		
DiGiovanna, Jack	Univ. of Florida		
Principe, Jose	Univ. of Florida		
Sanchez, Justin C.	Univ. of Florida		

14:45-15:00	SaCT7.4
<i>Video Based Analysis of Standing Balance in a Community Center</i> , pp. 4531-4534.	
Allin, Sonya	Univ. of Toronto
Beach, Cheryl	Vancouver Island Health Authority
Mitz, Andrew	National Inst. of Mental Health
Mihailidis, Alex	Univ. of Toronto
15:00-15:15	SaCT7.5
<i>Application of a Bi-Planar Postural Stability Model in Children with Cerebral Palsy</i> , pp. 4535-4538.	
Bustamante Valles, Karla Dolores	Marquette Univ.
Long, Jason	Medical Coll. of Wisconsin
Riedel, Susan	Marquette Univ.
Graf, Adam	Shriners Hospital for Children
Krzak, Joe	Shriners Hospital of Chicago
Hassani, Sahar	Shriners Hospital of Chicago
Smith, Peter	Shriners Hospital of Chicago
Harris, Gerald	Marquette Univ.
15:15-15:30	SaCT7.6
<i>Assessing the Psychophysics of Posture Control and Its Physiological Correlates</i> , pp. 4539-4543.	
Dong, Xiaoxi	Clarkson Univ.
Robinson, Charles	Clarkson Univ.
<b>SaCT8</b>	Room 19 & 20
<b>Electrical Source Imaging (Oral Session)</b>	
14:00-14:15	SaCT8.1
<i>Noninvasive Estimation of Three-Dimensional Cardiac Electrical Activities from Body Surface Potential Maps</i> , pp. 4544-4547.	
Liu, Chenguang	Univ. of Minnesota
Skadsberg, Nicholas	Univ. of Minnesota
Ahlberg, Sarah	Univ. of Minnesota
Swingen, Cory	Univ. of Minnesota
Iaizzo, Paul	Univ. of Minnesota
He, Bin	Univ. of Minnesota
14:15-14:30	SaCT8.2
<i>Comparative Analysis of Temporal Dynamics of EEG and Phase Synchronisation of EEG to Localize Epileptic Sites from High Density Scalp EEG Interictal Recordings</i> , pp. 4548-4550.	
Ramon, Ceon	Univ. of Washington
Holmes, Mark	Univ. of Washington
Freeman, Walter J.	Univ. of California at Berkeley
McElroy, Ryan	Univ. of Washington
Rezvanian, Elham	Univ. of Washington
14:30-14:45	SaCT8.3
<i>Study of the Time-Varying Cortical Connectivity During the Attempt of a Foot Movement by Spinal Cord Injured Patients</i> , pp. 4551-4554.	
Astolfi, Laura	Univ. of Rome
Babiloni, Fabio	Univ. of Rome
De Vico Fallani, Fabrizio	Univ. La Sapienza
14:45-15:00	SaCT8.4
<i>A Novel Sparse Source Imaging in Reconstructing Extended Cortical Current Sources</i> , pp. 4555-4558.	
Ding, Lei	Univ. of Oklahoma
15:00-15:15	SaCT8.5
<i>Preliminary Imaging Results of Magnetic Induction Tomography Based on Physical Phantom</i> , pp. 4559-4562.	
Liu, Ruigang	Fourth Military Medical Univ.
Li, Ye	Fourth Military Medical Univ.
You, Fusheng	Fourth Military Medical Univ.
Shi, Xuetao	Fourth Military Medical Univ.
Fu, Feng	Fourth Medical Univ.
Dong, Xiuzhen	Fourth Military Medical Univ.
15:15-15:30	SaCT8.6
<i>The Effect of Tissue Anisotropy on the EEG Inverse Problem</i> , pp. 4563-4566.	
Cook, Michael	Univ. of Alberta
Koles, Zoltan	Univ. of Alberta

<b>SaCT9</b>	Room 10
<b>Movement Biomechanics (Oral Session)</b>	
14:00-14:15	SaCT9.1
<i>Towards Predicting Biomechanical Consequences of Jaw Reconstruction</i> , pp. 4567-4570.	
Stavness, Ian	The Univ. of British Columbia
Hannam, Alan G.	The Univ. of British Columbia
Lloyd, John E.	The Univ. of British Columbia
Fels, Sidney	The Univ. of British Columbia
14:15-14:30	SaCT9.2
<i>Development of a Knee Joint Motion Simulator to Evaluate Deep Knee Flexion of Artificial Knee Joints</i> , pp. 4571-4574.	
Takano, Yasuji	Saga Univ.
Ueno, Masaru	Japan Medical Materials Corp.
Kiguchi, Kazuo	Saga Univ.
Ito, Jun	Saga Univ.
Mawatari, Masaaki	Saga Univ.
Hotokebuchi, Takao	Saga Univ.
14:30-14:45	SaCT9.3
<i>Motion Capture Based Identification of Human Inertial Parameters</i> , pp. 4575-4578.	
Venture, Gentiane	Univ. of Tokyo
Ayusawa, Ko	Univ. of Tokyo
Nakamura, Yoshihiko	Univ. of Tokyo
14:45-15:00	SaCT9.4
<i>Benchmarking of a Full-Body Inertial Motion Capture System for Clinical Gait Analysis</i> , pp. 4579-4582.	
Scheffer, Cornie	Stellenbosch Univ.
Cloete, Teunis	Stellenbosch Univ.
15:00-15:15	SaCT9.5
<i>Upper Extremity Kinetics of Children with Myelomeningocele During Lofstrand Crutch-Assisted Gait</i> , pp. 4583-4586.	
Slavens, Brooke	Marquette Univ.
Sturm, Peter	Shriners Hospitals for Children
Harris, Gerald	Marquette Univ.
15:15-15:30	SaCT9.6
<i>An Accurate and Robust Gyroscope-Based Pedometer</i> , pp. 4587-4590.	
Lim, Yoong	Monash Univ.
Brown, Ian	Monash Univ.
Khoo Chen Tsien, Joshua	Monash Univ.
<b>SaCT10</b>	Room 18
<b>Visually Induced Motion Sickness (Invited Session)</b>	
Organizer: Kiryu, Tohru	Niigata Univ.
14:00-14:15	SaCT10.1
<i>A Method for Evaluating Effects of Visually-Induced Motion Sickness Using ICA for Photoplethysmography (I)</i> , pp. 4591-4594.	
Abe, Makoto	Tohoku Univ.
Yoshizawa, Makoto	Tohoku Univ.
Sugita, Norihiro	Tohoku Univ.
Tanaka, Akira	Fukushima Univ.
Yambe, Tomoyuki	Tohoku Univ.
14:30-14:45	SaCT10.3
<i>Interpolation of the Subjective Score of Visually-Induced Motion Sickness by Using Physiological Parameters (I)</i> , pp. 4595-4596.	
Tanaka, Akira	Fukushima Univ.
Sugita, Norihiro	Tohoku Univ.
Yoshizawa, Makoto	Tohoku Univ.
Abe, Makoto	Tohoku Univ.
Yambe, Tomoyuki	Tohoku Univ.
15:00-15:15	SaCT10.5
<i>Integrated Evaluation of Visually Induced Motion Sickness in Terms of Autonomic Nervous Regulation (I)</i> , pp. 4597-4600.	
Kiryu, Tohru	Niigata Univ.
Tada, Gen	Niigata Univ.
Toyama, Hiroshi	Niigata Univ.
Iijima, Atsuhiko	Niigata Univ.

SaCT11	Room 16
<b>Decision Support Methods and Tools (Oral Session)</b>	
14:00-14:15	SaCT11.1
<i>Reliability of Cluster Results for Different Types of Time Adjustments in Complex Disease Research</i> , pp. 4601-4604.	
Colas, Fabrice	Leiden Univ.
Meulenbelt, Ingrid	Leiden Univ. Medical Center
Houwing-Duistermaat, Jeanine J.	Leiden Univ. Medical Center
Kloppenborg, Margreet	Leiden Univ. Medical Center
Watt, Iain	Leiden Univ. Medical Center
van Rooden, Stephanie	Leiden Univ. Medical Center
Visser, Martine	Leiden Univ. Medical Center
Marinus, Johan	Leiden Univ. Medical Center
van Hilten, Jacobus J.	Leiden Univ. Medical Center
Slagboom, P. Eline	Leiden Univ. Medical Center
Kok, Joost N.	Leiden Univ.
14:15-14:30	SaCT11.2
<i>Complimentary Artificial Neural Network Approaches for Prediction of Events in the Neonatal Intensive Care Unit</i> , pp. 4605-4608.	
Townsend, Daphne	Carleton Univ.
Frize, Monique	Carleton Univ.
14:30-14:45	SaCT11.3
<i>Analysis of Postprandial Lipemia As a Cardiovascular Disease Risk Factor Using Genetic and Clinical Information: An Artificial Neural Network Perspective</i> , pp. 4609-4612.	
Valavanis, Ioannis	National Tech. Univ. of Athens
Mougiakakou, Stavroula	National Tech. Univ. of Athens
Grimaldi, Keith	Sciona
Nikita, Konstantina	National Tech. Univ. of Athens
14:45-15:00	SaCT11.4
<i>Quantitative Metrics for Bio-Modeling Algorithm Selection</i> , pp. 4613-4616.	
Kaddi, Chanchala	Georgia Inst. of Tech.
Quo, Chang Feng	Georgia Inst. of Tech.
Moffitt, Richard A.	Georgia Inst. of Tech.
Wang, May Dongmei	Georgia Tech. and Emory Univ.
15:00-15:15	SaCT11.5
<i>Learning Brain Connectivity with the False-Discovery-Rate-Controlled PC-Algorithm</i> , pp. 4617-4620.	
Li, Junning	Univ. of British Columbia
Wang, Z. Jane	Univ. of British Columbia
McKeown, Martin	Univ. of British Columbia
15:15-15:30	SaCT11.6
<i>Implicit Methods for Probabilistic Modeling of Gene Regulatory Networks</i> , pp. 4621-4627.	
Garg, Abhishek	EPFL
Banerjee, Debasree	EPFL
De Micheli, Giovanni	EPFL
SaCT12	Room 17
<b>Acoustic Signal Processing in Telehealth (Oral Session)</b>	
14:00-14:15	SaCT12.1
<i>An Acoustic Fall Detector System That Uses Sound Height Information to Reduce the False Alarm Rate</i> , pp. 4628-4631.	
Popescu, Mihail	Univ. of Missouri
Li, Yun	Univ. of Missouri
Skubic, Marjorie	Univ. of Missouri
Rantz, Marilyn	Univ. of Missouri - Columbia
14:15-14:30	SaCT12.2
<i>Fall Detection of Elderly through Floor Vibrations and Sound</i> , pp. 4632-4635.	
Litvak, Dima	Tel-Aviv Univ.
Zigel, Yaniv	Ben-Gurion Univ.
Gannot, Israel	Tel-Aviv Univ.
14:30-14:45	SaCT12.3
<i>Dual-Microphone Sounds of Daily Life Classification for Telemonitoring in a Noisy Environment</i> , pp. 4636-4639.	
Maunder, David	Univ. of New South Wales
Ambikairajah, E	Univ. of New South Wales
Epps, Julien	The Univ. of New South Wales
Celler, Branko George	Univ. of New South Wales

14:45-15:00	SaCT12.4
<i>Real Time Sound Analysis for Medical Remote Monitoring</i> , pp. 4640-4643.	
Istrate, Dan	ESIGETEL
Cheng, Sreng	ESIGETEL
Binet, Morgan	ESIGETEL
15:00-15:15	SaCT12.5
<i>Sound and Speech Detection and Classification in a Health Smart Home</i> , pp. 4644-4647.	
Fleury, Anthony	Univ. Joseph Fourier
Noury, Norbert	Univ. Joseph Fourier Grenoble
Vacher, Michel	CLIPS-IMAG
Glasson, Hubert	Univ. Joseph Fourier
Serignat, Jean Francois	CLIPS-IMAG
15:15-15:30	SaCT12.6
<i>Learning Diagnostic Models Using Speech and Language Measures</i> , pp. 4648-4651.	
Peintner, Bart	SRI International
Jarrold, William	SRI International
Vergyi, Dimitra	SRI International
Richey, Colleen	SRI International
Gorno Tempini, Maria Luisa	Univ. of California San Francisco
Ogar, Jennifer	Univ. of California San Francisco

SaCT13	Room 9
<b>Women in Biomedical Engineering and Health Informatics (Minisymposium)</b>	

Organizer: Vicini, Paolo	Univ. of Washington
14:00-15:30	SaCT13.1
<i>Women in Biomedical Engineering and Health Informatics (I)</i> , pp. 5933-5934.	
McGregor, Carolyn	Univ. of Ontario Inst. of Tech.
Frize, Monique	Carleton Univ.

SaDPo01	Exhibit Hall C
<b>Independent Component Analysis Posters (Poster Session)</b>	

15:30-17:00	SaDPo01.1
<i>Spatiotemporal Group ICA Applied to Fmri Datasets</i> , pp. 4652-4655.	
Kohler, Christian	Univ. of Regensburg
Keck, Ingo	Univ. of Regensburg
Gruber, Peter	Univ. of Regensburg
Lie, Chuh-Hyouon	Univ. of Cologne
Specht, Karsten	Univ. of Bergen
Schmitz, Gerd	Univ. Hospital Regensburg
Lang, Elmar W.	Univ. of Regensburg
15:30-17:00	SaDPo01.2
<i>EOG Artifact Minimization Using Oblique Projection Corrected Eigenvector Decomposition</i> , pp. 4656-4659.	
Zhou, Ziling	National Univ. of Singapore
Puthusserypady, Sadasivan	National Univ. of Singapore
15:30-17:00	SaDPo01.3
<i>An Offline Auditory P300 Brain-Computer Interface Using Principal and Independent Component Analysis Techniques for Functional Electrical Stimulation Application</i> , pp. 4660-4663.	
Bentley, Alexander Simon Jeremy	Univ. of Cape Town
John, Lester	Univ. of Cape Town
Andrew, Colin Murray	Univ. of Cape Town
15:30-17:00	SaDPo01.4
<i>ICA Analysis of Retina Images for Galucoma Classification</i> , pp. 4664-4667.	
Fink, Florian	Univ. of Regensburg
Wörle, Klaus	Univ. Hospital Regensburg
Gruber, Peter	Univ. of Regensburg
Tome, Ana Maria	Univ. de Aveiro
Górriz-Sáez, Juan Manuel	Univ. of Granada
Garcia Puntonet, Carlos	Univ. of Granada
Lang, Elmar W.	Univ. of Regensburg

15:30-17:00	SaDPo01.5	15:30-17:00	SaDPo03.5
<i>On the Selection of the Cost Function for Gradient-Based Decomposition of Surface Electromyograms</i> , pp. 4668-4671.		<i>On Correlating Otoacoustic Emissions with Blood Glucose</i> , pp. 4704-4707.	
Holobar, Ales	Pol. di Torino	Jacobs, Peter G.	Portland Va Medical Center
Zazula, Damjan	Univ. of Maribor	Wan, Eric	Oregon Health & Science Univ. OGI School of Science and En Portland VA Medical Center
<b>SaDPo02</b> Exhibit Hall C		<b>SaDPo03.6</b>	
<b>Neural Networks and Pattern Classification Posters (Poster Session)</b>		<i>A Multivariate Density Estimator for Contrast Agent Injection Monitoring Using a Bayesian Sparse Kernel Approach</i> , pp. 4708-4711.	
15:30-17:00	SaDPo02.2	15:30-17:00	SaDPo03.6
<i>Classification of Parkinson and Normal Gait Using Spatial-Temporal Image of Plantar Pressure</i> , pp. 4672-4675.		<i>Cerebral Hypoxic Ischemia at Different Cerebral Oxygen Saturations in Piglets: Amplitude-Integrated EEG Study</i> , pp. 4712-4715.	
Jeon, Hyo Seon	Seoul National Univ.	Forfang, Morten	Vestfold Univ. Coll.
Han, Jonghee	Seoul National Univ.	Hoff, Lars	Vestfold Univ. Coll.
Yi, WonJin	Seoul National Univ.	Berard-Andersen, Nicolay	Neorad
Jeon, BeomSeok	Seoul National Univ.	Olsen, Gjermund	Neorad
Park, Kwang S.	Seoul National Univ.	Brabrand, Knut	Neorad
15:30-17:00	SaDPo02.3	<b>SaDPo04</b> Exhibit Hall C	
<i>A New Fuzzy Support Vectors Machine for Biomedical Data Analysis</i> , pp. 4676-4679.		<b>Signals and Systems (Poster Session)</b>	
Czajkowska, Joanna	Silesian Univ. of Tech.	15:30-17:00	SaDPo04.1
Rudzki, Marcin	Silesian Univ. of Tech.	<i>Cerebral Hypoxic Ischemia at Different Cerebral Oxygen Saturations in Piglets: Amplitude-Integrated EEG Study</i> , pp. 4712-4715.	
Czajkowski, Zbigniew	Silesian Univ. of Tech.	Zhang, Dandan	Tsinghua Univ.
15:30-17:00	SaDPo02.4	Ding, Haiyan	Tsinghua Univ.
<i>Discrete Wavelet Transform for Analysis of Spike-Wave Discharges in Rats</i> , pp. 4680-4683.		Hou, Xinlin	First Hospital of Peking Univ.
Ubeyli, Elif Derya	TOBB Ec. and Tech. Univ.	Liu, Yunfeng	Tsinghua Univ.
Ilbay, Gul	Kocaeli Univ.	Ye, Datian	Tsinghua Univ.
Sahin, Deniz	Kocaeli Univ.	15:30-17:00	SaDPo04.2
Ates, Nurbay	Kocaeli Univ.	<i>Imaging Coherent Sources of Tremor Related EEG Activity in Patients with Parkinson's Disease</i> , pp. 4716-4719.	
15:30-17:00	SaDPo02.5	Muthuraman, Muthuraman	Christian Albrechts Univ.
<i>A Heuristic Method for Finding the Optimal Number of Clusters with Application in Medical Data</i> , pp. 4684-4687.		Jan Raethjen, Jan Raethjen	Christian Albrechts Univ. of Kiel
Bayati, Hamidreza	Sharif Univ. of Tech.	Helge hellriegel, Helge hellriegel	Christian Albrechts Univ. Kiel
Davoudi, Heydar	Sharif Univ. of Tech.	Gunther Deuschl, Gunther Deuschl	Christian Albrechts Univ. kiel
Fatemizadeh, Emad	Sharif Univ. of Tech.	Ulrich Heute, Ulrich Heute	Christian Albrechts Univ. Kiel
<b>SaDPo03</b> Exhibit Hall C		15:30-17:00	SaDPo04.3
<b>Neural Signal Analysis (Poster Session)</b>		<i>New Wearable System for the Step Counting Based on the Codivilla-Spring for Daily Activity Monitoring in Stroke Rehabilitation</i> , pp. 4720-4723.	
15:30-17:00	SaDPo03.1	Giansanti, Daniele	Istituto Superiore di Sanitř Univ. Cattolica
<i>A Novel Shape Analysis Technique for Somatosensory Evoked Potentials</i> , pp. 4688-4691.		Tiberi, Ylenia	Istituto Superiore di Sanitř
Agrawal, Gracee	Johns Hopkins Univ.	Maccioni, Giovanni	
Sherman, David	Infinite Biomedical Tech.	15:30-17:00	SaDPo04.4
Thakor, Nitish	Johns Hopkins Univ.	<i>Entropy Analysis on EEG Signal in a Study of Focal Myoclonus.</i> , pp. 4724-4727.	
All, Angelo	Johns Hopkins Univ.	Molteni, Erika	IRCCS E. Medea
15:30-17:00	SaDPo03.2	Perego, Paolo	IRCCS "E. Medea"
<i>Probabilistic Assessment of Autonomic Nervous System Fluctuations During Tilt Table Tests</i> , pp. 4692-4695.		Zanotta, Nicoletta	IRCCS "E. Medea"
Ng, Francisco	Univ. of British Columbia	Reni, Gianluigi	IRCCS
Wong C, Sara	Univ. Simon Bolivar	15:30-17:00	SaDPo04.5
Gomis, Pedro	Tech. Univ. of Catalonia	<i>Fetal Distress Diagnosis Using Heart Rate Variability Analysis: Design of a High Frequency Variability Index</i> , pp. 4728-4731.	
Lim, Joanne	British Columbia Children's Hospital	Logier, Regis	CHRU de Lille
Passariello, Gianfranco	Univ. Simón Bolivar	De jonckheere, Julien	USTL
Ansermino, J. Mark	British Columbia's Children's Hospital	Jeanne, Mathieu	CHRU de Lille
15:30-17:00	SaDPo03.3	Matis, Richard	Groupe Hospitalier de l'Inst. Catholique de Lille
<i>Heart Rate Variability and Complexity in People with Diabetes Associated Cardiac Autonomic Neuropathy</i> , pp. 4696-4699.		15:30-17:00	SaDPo04.6
Khandoker, Ahsan Habib	The Univ. of Melbourne	<i>A Novel VOCODER for Cochlear Implants</i> , pp. 4732-4735.	
Jelinek, Herbert Franz	Charles Sturt Univ.	Johnson, Peter	Clarkson Univ.
Palaniswami, Marimuthu	The Univ. of Melbourne	McNamara, David	Clarkson Univ.
15:30-17:00	SaDPo03.4	Ziarani, Alireza	Clarkson Univ.
<i>Assessment of the Effects of Subthalamic Stimulation in Parkinson Disease Patients by Artificial Neural Network</i> , pp. 4700-4703.		15:30-17:00	SaDPo04.7
Muniz, Adriane Mara de Souza	Federal Univ. of Rio de Janeiro	<i>A Realtime ECG Data Compression Algorithm for a Digital Holter System</i> , pp. 4736-4739.	
Nobre, Flavio Fonseca	Federal Univ. of Rio de Janeiro	Lee, SangJoon	Yonsei Univ.
Liu, Hongzeng	Univ. of Kansas Medical Center	Lee, MyoungHo	Yonsei Univ.
Lyons, Kelly E.	Univ. of Kansas Medical Center		
Pahwa, Rajesh	Univ. of Kansas Medical Center		
Liu, Wen	Univ. of Kansas Medical Center		
Nadal, Jurandir	Federal Univ. of Rio de Janeiro		



15:30-17:00 SaDPo04.8  
*Error Analysis on Spinal Motion Measurement Using Skin Mounted Sensors*, pp. 4740-4743.

Yang, Zhengyi Univ. of Queensland  
Ma, Heather Ting The Chinese Univ. of Hong Kong  
Wang, Deming Univ. of Queensland  
Lee, Raymond Univ. of Brighton

15:30-17:00 SaDPo04.9  
*Estimation of Vital Signs in Bed from a Single Unobtrusive Mechanical Sensor: Algorithms and Real-Life Evaluation*, pp. 4744-4747.

Aubert, Xavier Philips Res. Lab. Aachen  
Brauers, Andreas Philips Res. Europe Lab.

15:30-17:00 SaDPo04.10  
*Surface EMG and Spatial Resolution Analysis with Estimation of Electromyographic Descriptors*, pp. 4748-4751.

Schwartz, Fabiano Univ. of Brasilia  
da Rocha, Adson F. Univ. of Brasilia  
dos Santos, Icaro Univ. of Brasilia  
Salomoni, Sauro Univ. de Brasilia  
Nascimento, Francisco A. de O. Univ. of Brasilia  
Soares, Fabiano Pol. di Torino

15:30-17:00 SaDPo04.11  
*Surface Electromyogram Signal Estimation Based on Wavelet Thresholding Technique*, pp. 4752-4755.

Khezri, Mahdi Sharif Univ. of Tech.  
Jahed, Mehran Sharif Univ. of Tech.

15:30-17:00 SaDPo04.12  
*Combining Newborn EEG and HRV Information for Automatic Seizure Detection*, pp. 4756-4759.

Bala Krishnan, Malarvili Univ. of Queensland  
Mesbah, Mostefa Univ. of Queensland

15:30-17:00 SaDPo04.13  
*Performance Evaluation of Three Methods for Respiratory Signal Estimation from the Electrocardiogram*, pp. 4760-4763.

Correa, Lorena Univ. Nacional de San Juan  
Laciar, Eric Univ. Nacional de San Juan  
Torres, Abel CREB, IBEC, Univ. Pol. de Catalunya  
Jané, Raimon Univ. Pol. de Catalunya

15:30-17:00 SaDPo04.14  
*Detection of Low Amplitude Fetal QRS Complexes*, pp. 4764-4767.

Kotas, Marian Silesian Univ. of Tech.  
Jezewski, Janusz Inst. of Medical Tech. and Equipment  
Kupka, Tomasz Inst. of Medical Tech. and Equipment  
Horoba, Krzysztof Inst. of Medical Tech. and Equipment

**SaDPo05** Exhibit Hall C  
**Computer-Aided Detection and Diagnosis from Images**  
(Poster Session)

15:30-17:00 SaDPo05.1  
*Computer Aided Diagnosis of Fatty Liver Ultrasonic Images Based on Support Vector Machine*, pp. 4768-4771.

Li, Guokuan Huazhong Univ. of Sci. and Tech.

15:30-17:00 SaDPo05.2  
*Automated Detection of Polycystic Ovary Syndrome from Ultrasound Images*, pp. 4772-4775.

Deng, Yinhui Fudan Univ.  
Wang, Yuanyuan Fudan Univ.  
Chen, Ping First Maternity and Infant Hospital

15:30-17:00 SaDPo05.3  
*Study of a Mammographic CAD Performance Dependence on the Considered Mammogram Set*, pp. 4776-4779.

García-Orellana, Carlos J. Univ. of Extremadura  
Gallardo-Caballero, Ramon Univ. of Extremadura  
González-Velasco, Horacio Univ. of Extremadura  
García-Manso, Antonio Univ. of Extremadura  
Macías-Macías, Miguel Univ. of Extremadura

15:30-17:00 SaDPo05.4  
*Bleeding Detection from Capsule Endoscopy Videos*, pp. 4780-4783.

Giritharan, Balathasan Univ. of North Texas  
Yuan, Xiaohui Univ. of North Texas  
Liu, Jianguo Univ. of North Texas  
Buckles, Bill Univ. of North Texas  
Oh, JungHwan Univ. of North Texas  
Tang, Shou Jiang UT Southwestern

15:30-17:00 SaDPo05.5  
*Cardiac Disease Recognition in Echocardiograms Using Spatio-Temporal Statistical Models*, pp. 4784-4788.

Beymer, David IBM Almaden Res. Center  
Syeda-Mahmood, Tanveer IBM Almaden Res. Center

15:30-17:00 SaDPo05.6  
*Automatic Detection of Clustered Microcalcifications in Digital Mammograms: Study on Applying Adaboost with SVM-Based Component Classifiers*, pp. 4789-4792.

Dehghan, Faramarz K.N. Toosi Univ. of Tech.  
Abrishami Moghaddam, Hamid Univ. of Picardie Jules Verne  
Giti, Masoomeh Tehran Univ. of Medical Scienc

**SaDPo06** Exhibit Hall C  
**Functional Image Analysis Posters** (Poster Session)

15:30-17:00 SaDPo06.1  
*Respiratory Acoustic Thoracic Imaging (RATHI): Assessing the Intrasubject Variability*, pp. 4793-4796.

Torres-Jimenez, Alejandra Univ. Autonoma Metropolitana (UAM-740101AR1)  
Charleston-Villalobos, Sonia Univ. Autonoma Metropolitana  
Gonzalez-Camarena, Ramon Univ. Autonoma Metropolitana  
Chi-Lem, Georgina Univ. Autónoma Metropolitana  
Aljama-Corrales, Tomas Univ. Autonoma Metropolitana

15:30-17:00 SaDPo06.2  
*Asymmetry in Lung Sound Intensities Detected by Respiratory Acoustic Thoracic Imaging (RATHI) and Clinical Pulmonary Auscultation*, pp. 4797-4800.

Torres-Jimenez, Alejandra Univ. Autonoma Metropolitana (UAM-740101AR1)  
Charleston-Villalobos, Sonia Univ. Autonoma Metropolitana  
Gonzalez-Camarena, Ramon Univ. Autonoma Metropolitana  
Chi-Lem, Georgina Univ. Autónoma Metropolitana  
Aljama-Corrales, Tomas Univ. Autonoma Metropolitana

15:30-17:00 SaDPo06.3  
*Imaging of Simulated Crackle Sounds Distribution on the Chest*, pp. 4801-4804.

Dorantes, Guadalupe Univ. Autonoma Metropolitana (UAM-740101AR1)  
Charleston-Villalobos, Sonia Univ. Autonoma Metropolitana  
Gonzalez-Camarena, Ramon Univ. Autonoma Metropolitana  
Chi-Lem, Georgina Univ. Autónoma Metropolitana  
Aljama-Corrales, Tomas Univ. Autonoma Metropolitana

15:30-17:00 SaDPo06.4  
*Objective Grading of Facial Paralysis Using Local Binary Patterns in Video Processing*, pp. 4805-4808.

He, Shu Univ. of Strathclyde  
Soraghan, John J Univ. of Strathclyde  
O'Reilly, Brian Southern General Hospital

15:30-17:00 SaDPo06.5  
*Refined Segmentation of Images for Human Pose Analysis*, pp. 4809-4811.

Zhang, Hong Beihang Univ.  
Zhang, Kui Beihang Univ.  
Yao, Ning Univ. of Pittsburgh  
Sciabassi, Robert Univ. of Pittsburgh  
Sun, Mingui Univ. of Pittsburgh

15:30-17:00	SaDPo06.6			15:30-17:00	SaDPo07.8
<i>Genetic Algorithm-Based PCA Eigenvector Selection and Weighting for Automated Identification of Dementia Using FDG-PET Imaging</i> , pp. 4812-4815.				<i>Lingual Force Detection System</i> , pp. 4844-4847.	
Xia, Yong	The Univ. of Sydney			Sangave, Amit	The George Washington Univ.
Wen, Lingfeng	Univ. of Sydney			Manuccia, Thomas	George Washington Univ.
Eberl, Stefan	Royal Prince Alfred Hospital			Kay, Matthew	The George Washington Univ.
Fulham, Michael	Royal Prince Alfred Hospital			Zderic, Vesna	The George Washington Univ.
Feng, Dagan	The Univ. of Sydney				
<b>SaDPo07</b>	Exhibit Hall C			15:30-17:00	SaDPo07.9
<b>Emerging Technologies for Diagnosis and Therapy Posters</b> (Poster Session)				<i>Hydrogel-Based Microfluidic Systems for Co-Culture of Cells</i> , pp. 4848-4851.	
15:30-17:00	SaDPo07.1			Chen, Michael CW	Univ. of British Columbia
<i>Local Electrical Stimulation of Cultured Embryonic Cardiomyocytes with Sub Micrometer Nail Structures</i> , pp. 4816-4819.				Cheung, Karen C.	Univ. of British Columbia
Braeken, Dries	IMEC			Gupta, Madhuja	Univ. of British Columbia
Jans, Danny	IMEC			15:30-17:00	SaDPo07.10
Rand, Danielle	IMEC			<i>Electrocardiographic Pill for Cattle Heart Rate Determination</i> , pp. 4852-4855.	
Huys, Roeland	IMEC			Warren, Steve	Kansas State Univ.
Van Meerbergen, Bart	IMEC vzw			Martinez, Angel	Kansas State Univ.
Loo, Josine	IMEC			Sobering, Timothy	Kansas State Univ.
Borghs, Gustaaf	IMEC			Andresen, Daniel	Kansas State Univ.
Callewaert, Geert	KU Leuven Campus Kortrijk			15:30-17:00	SaDPo07.11
Bartic, Carmen	IMEC			<i>Cerebral Temperature Varies across Circadian Phases in Humans (I)</i> , pp. 4856-4858.	
15:30-17:00	SaDPo07.2			Boudreau, Philippe	McGill Univ. Douglas Mental Health Univ.
<i>A Research for Evaluation on Stress Change Via Thermotherapy and Massage</i> , pp. 4820-4823.				Dittmar, Andre	INSA Lyon
Jeong, Incheol	Yonsei Univ.			Gehin, Claudine	INSA Lyon
Jun, Sukhwan	Yonsei Univ.			Delhomme, Georges	INSA Lyon
Park, Sung Jun	Yonsei Univ.			Nocua Cifuentes, Ronald	Inst. des Nanotechnologies de Lyon
Sango, Jung	Yonsei Univ.			Dumont, Guy	Univ. of British Columbia
Shin, Tae Min	Yonsei Univ.			Boivin, Diane	McGill Univ.
Yoon, Hyungro	Yonsei Univ.				
15:30-17:00	SaDPo07.3			<b>SaDPo08</b>	Exhibit Hall C
<i>Blood Cell Counting by Means of Impedance Measurements in a Microsystem Device</i> , pp. 4824-4827.				<b>Diagnostic &amp; Evaluation Techniques Posters</b> (Poster Session)	
Piacentini, Niccolò	Pol. di Torino			15:30-17:00	SaDPo08.1
Demarchi, Danilo	Pol. di Torino			<i>Bandwidth Measurement of the Conductance Catheter System</i> , pp. 4859-4862.	
Civera, Pierluigi	Pol. di Torino			Chen, Chieh-En	National Cheng Kung
Knaflitz, Marco	Pol. di Torino			Wei, Chia-Ling	National Cheng Kung Univ.
15:30-17:00	SaDPo07.4			15:30-17:00	SaDPo08.2
<i>A Fast and Accurate FPGA Based QRS Detection System</i> , pp. 4828-4831.				<i>Radar Mechanocardiography: A Novel Analysis of the Mechanical Behavior of Heart</i> , pp. 4863-4866.	
Shukla, Ashish	Univ. of Hawaii			Tavakolian, Kouhyar	Simon Fraser Univ.
Macchiarulo, Luca	Univ. of Hawaii at Manoa			Kaminska, Bozena	Simon Fraser Univ.
15:30-17:00	SaDPo07.5			15:30-17:00	SaDPo08.3
<i>System for ECG and Heart Rate Monitoring During Group Training</i> , pp. 4832-4835.				<i>Heart Sound and Electrocardiogram Recording Devices for Telemedicine Environments</i> , pp. 4867-4870.	
Vehkaoja, Antti	Tampere Univ. of Tech.			Scheffer, Cornie	Stellenbosch Univ.
Verho, Jarmo	Tampere Univ. of Tech.			Koekemoer, Dirk	GeoAxon Holdings (Pty) Ltd
Cömert, Alper	Tampere Univ. of Tech.			15:30-17:00	SaDPo08.4
Perhonen, Merja	CorusFit Inc.			<i>Optical Spectroscopy on in Vitro Fungal Diagnosis</i> , pp. 4871-4874.	
Lekkala, Jukka	Tampere Univ. of Tech.			Rativa, Diego J.	Univ. Federal de Pernambuco, Recife, Brazil
Halttunen, Jouko Elias	Tampere Univ. of Tech.			Gomes, Anderson S. L.	Univ. Federal de Pernambuco
Aydogan, Baran	Tampere Univ. of Tech.			Rodrigues, Marco Aurélio Benedetti	Federal Univ. of Pernambuco
15:30-17:00	SaDPo07.6			Souza Filho, L. G.	Univ. Federal de Pernambuco
<i>Monitoring 3D Movements for the Rehabilitation of Joints in Physiotherapy</i> , pp. 4836-4839.				Marsden, Armando	Univ. Federal de Pernambuco
Martin Moreno, Javier	Univ. of Alicante			de Araujo, Renato Evangelista	Univ. Federal de Pernambuco
Ruiz Fernandez, Daniel	Univ. of Alicante			15:30-17:00	SaDPo08.5
Soriano Paya, Antonio	Univ. of Alicante			<i>A Novel Technological Approach towards the Early Diagnosis of Neurodevelopmental Disorders</i> , pp. 4875-4878.	
Berenguer Miralles, Vicente Jesús	Univ. of Alicante			Campolo, Domenico	Campus Bio-Medico Univ.
15:30-17:00	SaDPo07.7			Taffoni, Fabrizio	Campus Bio-Medico Univ.
<i>Software Platform for Rapid Prototyping of Nirs Brain Computer Interfacing Techniques</i> , pp. 4840-4843.				Schiavone, Giusy	Campus Bio-Medico Univ.
Matthews, Fiachra	National Univ. of Ireland, Maynooth			Laschi, Cecilia	Scuola Superiore Sant'Anna
Soraghan, Christopher	NUI Maynooth			Keller, Flavio	Campus Bio-Medico Univ.
Ward, Tomas	NUIM			Guglielmelli, Eugenio	Campus Bio-Medico Univ.
Markham, Charles	NUIM			15:30-17:00	SaDPo08.6
Pearlmutter, Barak	National Univ. of Ireland, Maynooth			<i>A System for Move-Free and Real Time Monitoring of Readiness</i> , pp. 4879-4882.	
				Dibazar, Alireza	Univ. of Southern California
				Yousefi, Ali	Univ. of Southern California

- 15:30-17:00 SaDPo08.7  
*A Two-Stage Approach to Positioning and Identification of Tracheal Intubation Using LED-Based Lightwand and Acoustic Models*, pp. 4883-4886.  
 Chen, Wei-Hao National Cheng Kung Univ.  
 Su, Hao-Po Chang Gung Memorial Hospital-Kaohsiung Medical Center, Chang Gung Industrial Tech. Res. Inst.  
 Chiu, Yu-Hsien Chia-Yi Christian Hospital  
 Tseng, Chia-Chi National Cheng Kung Univ.  
 Chung, Kao-Chi
- 15:30-17:00 SaDPo08.8  
*A Survey on Wearable Biosensor Systems for Health Monitoring*, pp. 4887-4890.  
 Pantelopoulos, Alexandros Wright State Univ.  
 Bourbakis, Nikolaos Wright State Univ.
- 15:30-17:00 SaDPo08.9  
*Preliminary Study on Physiological Changes of Hemorrhagic Shock in Rats*, pp. 4891-4894.  
 Lee, Ju Hyung Yonsei Univ.  
 Kim, Soo chan Hankyong National Univ.  
 Lee, Tak Hyung Yonsei Univ.  
 Chung, Sang Won Kwandong Univ.  
 No, Hyung Wook Coll. of Medicine, Yonsei Univ.  
 Kim, Deok Won Yonsei Univ. Coll. of Medicine
- 15:30-17:00 SaDPo08.10  
*Radial Artery Pulse Wave Simulator Using a Linear Motor*, pp. 4895-4898.  
 Heo, Hyun Korea electrotechnology Res. Inst.  
 Kim, Eun Geun Korea Electrotechnology Res. Inst.  
 Nam, Ki Chang Korea Electrotechnology Res. Inst.  
 Huh, Young Korea Electrotechnology Res. Inst.
- 15:30-17:00 SaDPo08.11  
*A Prototype Wireless Inertial-Sensing Device for Measuring Toe Clearance*, pp. 4899-4902.  
 Lai, Tze Huei, Daniel Victoria Univ.  
 Charry, Edgar The Univ. of Melbourne  
 Begg, Rezaul Victoria Univ.  
 Palaniswami, Marimuthu The Univ. of Melbourne
- 15:30-17:00 SaDPo08.12  
*Design and Development of a Foot Position Tracking Device*, pp. 4903-4906.  
 Park, Junho Inje Univ.  
 Cho, Jongman Inje Univ.  
 Choi, Junghyeon Inje Univ.
- 15:30-17:00 SaDPo08.13  
*Characterisation of a Multi-Frequency Wound Impedance Mapping Instrument*, pp. 4907-4910.  
 Weber, Sonja Univ. of Ulster  
 Jossinet, Jacques INSERM  
 Gehin, Claudine INSA Lyon  
 McAdams, Eric Univ. of Ulster
- 15:30-17:00 SaDPo08.14  
*A Power-Efficient Analog Integrated Circuit for Amplification and Detection of Neural Signals*, pp. 4911-4915.  
 Borghi, Tommaso Pol. di Milano - IU.NET  
 Bonfanti, Andrea Pol. di Milano - IU.NET  
 Gusmeroli, Riccardo Pol. di Milano - IU.NET  
 Zambra, Guido Pol. di Milano  
 S. Spinelli, Alessandro Pol. di Milano - IU.NET
- 15:30-17:00 SaDPo08.15  
*Estimation of Respiratory Waveform and Heart Rate Using an Accelerometer*, pp. 4916-4919.  
 Hung, Phan Duy CEA Léti MINATEC  
 Bonnet, Stéphane CEA Léti MINATEC  
 Guillemaud, Regis CEA Léti MINATEC  
 Castelli, Eric International Res. Center MICA Ha Noi Univ. of Tech.  
 Pham, Ngoc Yen Hanoi Univ. of Tech.
- 15:30-17:00 SaDPo08.16  
*Detecting Idiopathic Toe-Walking Gait Patterns Using Heel Accelerometry Data and Support Vector Machines*, pp. 4920-4923.  
 Pendharkar, Gita Monash Univ.  
 Lai, Tze Huei, Daniel Victoria Univ.  
 Begg, Rezaul Victoria Univ.
- 15:30-17:00 SaDPo08.17  
*Development of Acupoints Discrimination System Using Electric Properties of Acupoints and Non-Acupoints*, pp. 4924-4927.  
 Myoung, Hyoun Seok YONSEI Univ.  
 Choi, Hyun Seok Yonsei Univ.  
 Lee, Kyoung Joung Yonsei Univ.  
 Lee, Yong Heum Yonsei Univ.
- SaDPo09** Exhibit Hall C  
**Models and Simulations of Biological Systems (Poster Session)**
- 15:30-17:00 SaDPo09.1  
*Relationship between Adaptation of Motor Control and Cognition of Environmental Dynamics*, pp. 4928-4931.  
 Onishi, Keiichi Nagoya Univ.  
 Naito, Seiji Nagoya Univ.  
 Obinata, Goro Nagoya Univ.  
 Hase, Kazunori Nagoya Univ.
- 15:30-17:00 SaDPo09.2  
*Glucose Minimal Model Population Analysis: Likelihood Function Profiling Via Monte Carlo Sampling*, pp. 4932-4935.  
 Denti, Paolo Univ. of Padova  
 Vicini, Paolo Univ. of Washington  
 Bertoldo, Alessandra Univ. of Padova  
 Cobelli, Claudio Univ. of Padova
- 15:30-17:00 SaDPo09.3  
*Role of Myocardial Viscosity in Arrhythmogenesis in Calcium Overloaded Cardiomyocytes\**.  
 Sulman, Tatiana Inst. of Immunology and Physiology UB RAS  
 Katsnelson, Leonid B. Inst. of Immunology and Physiology UB RAS  
 Solovyova, Olga Inst. of Immunology and Physiology UB RAS  
 Markhasin, Vladimir S. Inst. of Immunology and Physiology UB RAS
- 15:30-17:00 SaDPo09.4  
*Estimation and Presentation of Blood Flow and Velocity from Angiographic Scans in the Human Cerebral Arterial System*, pp. 4936-4939.  
 Le, Thinh M. National Univ. of Singapore  
 Ng, Hsiao Piau Agency for Science Tech. & Res. Singapore  
 Nowinski, L. Wieslaw Agency for Science, Tech. & Res.
- 15:30-17:00 SaDPo09.5  
*Control of the Transition to Long-Term Nonprogressor in Tristable HIV Dynamics*, pp. 4940-4944.  
 Chang, Hyeygjeon Imperial Coll. London  
 Astolfi, Alessandro Imperial Coll. London and Univ. of Rome
- 15:30-17:00 SaDPo09.6  
*A Model of Ventilation Used to Interpret Newborn Lamb Respiratory Signals*, pp. 4945-4948.  
 Le Rolle, Virginie Univ. of Rennes 1  
 Hernández, Alfredo I. INSERM U642 LTSI.  
 Carrault, Guy Univ. de Rennes 1  
 Samson, Nathalie Univ. of Sherbrooke  
 Praud, Jean-Paul Univ. of Sherbrooke
- 15:30-17:00 SaDPo09.7  
*Characterization of Iris Pattern Stretches and Application to the Measurement of Roll Axis Eye Movements*, pp. 4949-4952.  
 Nishiyama, Junpei Chubu Univ. Coll. of Eng  
 Hashimoto, Tsutomu Chubu Univ. Coll. of Engineering  
 Sakashita, Yusuke NIDEK Co., LTD  
 Hironobu, Fujiyoshi Chubu Univ. Coll. of Engineering  
 Hirata, Yutaka Chubu Univ. Coll. of Eng

15:30-17:00	SaDPo09.8	15:30-17:00	SaDPo10.9
<i>Understanding Virulence Mechanisms in M. Tuberculosis Infection Via a Circuit-Based Simulation Framework</i> , pp. 4953-4955.		<i>Detecting EEG Evoked Responses for Target Image Search with Mixed Effect Models</i> , pp. 4988-4991.	
May, Elebeoba	Sandia National Lab.	Huang, Yonghong	Oregon Health and Science Univ.
Leitao, Andrei	Univ. of New Mexico School of Medicine	Erdogmus, Deniz	Oregon Health and Science Univ.
Faulon, Jean-Loup	Sandia National Lab.	Mathan, Santosh	Honeywell Lab.
Joo, Jaewook	Sandia National Lab.	Pavel, Michael	Oregon Health and Science Univ.
Misra, Milind	Sandia National Lab.		
Oprea, Tudor	Univ. of New Mexico School of Medicine		
<b>SaDPo10</b> Exhibit Hall C			
<b>Analysis of Neural Signals (Poster Session)</b>			
15:30-17:00	SaDPo10.1	15:30-17:00	SaDPo10.10
<i>Enhancement of Information Transmission with Stochastic Resonance in Hippocampal CA1 Neuron Network</i> , pp. 4956-4959.		<i>Study on Mental Stress Using Near-Infrared Spectroscopy, Electroencephalography, and Peripheral Arterial Tonometry</i> , pp. 4992-4995.	
Kawaguchi, Minato	Waseda Univ.	Ishii, Yoshikazu	Tokyo Inst. of Tech.
Mino, Hiroyuki	Kanto Gakuin Univ.	Ogata, Hajime	Tokyo Inst. of Tech.
Durand, Dominique	Case Western Res. Univ.	Takano, Hidenori	Tokyo Inst. of Tech.
15:30-17:00	SaDPo10.2	Ohnishi, Hidenori	Tech. Japan Co., Ltd.
<i>Event-Based Detection of Lapses of Responsiveness</i> , pp. 4960-4963.		Mukai, Toshiharu	The Inst. of Physical and Chemical Res. (RIKEN)
Peiris, Malik T. R.	Univ. of Canterbury	Yagi, Tohru	Tokyo Inst. of Tech.
Jones, Richard D.	Van der Veer Inst.		
Davidson, Paul Robert	Van der Veer Inst.		
Bones, P. J.	Univ. of Canterbury		
15:30-17:00	SaDPo10.3	15:30-17:00	SaDPo10.11
<i>Localization and Classification of Phonemes Using High Spatial Resolution Electroencephalography (ECoG) Grids</i> , pp. 4964-4967.		<i>Tracking Temporal Evolution of Nonlinear Dynamics in Hippocampus Using Time-Varying Volterra Kernels</i> , pp. 4996-4999.	
Blakely, Timothy	Univ. of Washington	Chan, Rosa H. M.	Univ. of Southern California
Miller, Kai J	Univ. of Washington	Song, Dong	Univ. of Southern California
Rao, Rajesh PN	Univ. of Washington	Berger, Theodore	Univ. of Southern California
Holmes, Mark	Univ. of Washington		
Ojemann, Jeffrey G	Univ. of Washington		
15:30-17:00	SaDPo10.4	15:30-17:00	SaDPo10.12
<i>Changes within Bursts During Learning in Dissociated Neural Networks</i> , pp. 4968-4971.		<i>Estimating Vigilance in Driving Simulation Using Probabilistic PCA</i> , pp. 5000-5003.	
Stegenga, Jan	Twente Univ.	Li, Mu	Shanghai Jiao Tong Univ.
le Feber, Joost	Univ. of Twente	Fu, Jia-wei	Shanghai Jiao Tong Univ.
Rutten, Wim	Univ. of twente	Lu, Bao-Liang	Shanghai Jiao Tong Univ.
Marani, Enrico	Univ. of Twente		
15:30-17:00	SaDPo10.5	15:30-17:00	SaDPo10.13
<i>Aliasing Rejection in Precision Decomposition of EMG Signals</i> , pp. 4972-4975.		<i>Assessment of Computerized Analysis Algorithms for One Dimension Physiologic Data with Multiple Databases</i> , pp. 5004-5007.	
Chang, Shey-Sheen	Boston Univ.	Lee, Khuan Y.	Univ. Teknologi MARA
De Luca, Carlo J.	Boston Univ.	Bister, Michel	Univ. of Nottingham
Nawab, Syed Hamid	Boston Univ.	Salleh, Yusof Md	Univ. Tech. Mara
		Blanchfield, Peter	Univ. of Nottingham
15:30-17:00	SaDPo10.6	15:30-17:00	SaDPo10.14
<i>Detection of the Uncomfortable Loudness Level by Electroencephalographic Data : A Novelty Detection Approach Using Habituation Correlates</i> , pp. 4976-4979.		<i>A Novel Method for Characterization of Peripheral Nerve Fiber Size Distributions by Group Delay Measurements and Simulated Annealing Optimization</i> , pp. 5008-5014.	
Mohamed Aminuddin, Mai Mariam	Saarland Univ. Hospital and Saarland Univ. of	Szlavik, Robert	California Pol. State Univ.
	Saarland Univ. Hospital	Turner, Galen	Louisiana Tech. Univ.
Delb, Wolfgang	Saarland Univ. Hospital		
Harris, Arief R.	Univ. of Saarland		
Bloching, Marc	Saarland Univ. Hospital		
Strauss, Daniel J.	Computational Diagnostics & Biocybernetics Unit		
15:30-17:00	SaDPo10.7	15:30-17:00	SaDPo10.15
<i>EEG Spectral Changes and Onset of Burst Suppression Pattern in Propofol/Remifentanyl Anesthesia</i> , pp. 4980-4983.		<i>Comparison of Spike-Sorting Algorithms for Future Hardware Implementation</i> , pp. 5015-5020.	
Kortelainen, Jukka Johannes	Univ. of Oulu	Gibson, Sarah	UCLA
Koskinen, Miika	Helsinki Univ. of Tech.	Judy, Jack	UCLA
Mustola, Seppo Tapani	South Karelia Central Hospital	Markovic, Dejan	UCLA
Seppänen, Tapio	Univ. of Oulu		
15:30-17:00	SaDPo10.8	15:30-17:00	SaDPo10.16
<i>Characterisation of Heart Rate Changes and Their Correlation with EEG During Neonatal Seizures.</i> , pp. 4984-4987.		<i>The 3D Position Estimation of Neurons in the Hippocampus Based on the Multi-Site Multi-Unit Recordings with Silicon Tetrodes</i> , pp. 5021-5024.	
Doyle, Orla Margaret	Univ. Coll. Cork	Kubo, Takashi	Tohoku Univ.
Greene, Barry R.	Univ. Coll. Cork	Katayama, Norihiro	Tohoku Univ.
Marnane, Liam	Univ. Coll. Cork	Karashima, Akihiro	Tohoku Univ.
Lightbody, Gordon	Univ. Coll. Cork	Nakao, Mitsuyuki	Tohoku Univ.
Boylan, Geraldine	Univ. Coll. Cork		
		15:30-17:00	SaDPo10.17
		<i>Optimal Path-Following Control of a Smart Powered Wheelchair</i> , pp. 5025-5028.	
		Nguyen, Tuan Nghia	Univ. of Tech. Sydney
		Nguyen, Hung T.	Univ. of Tech. Sydney
		Su, Steven Weidong	Univ. of Tech. Sydney
		15:30-17:00	SaDPo10.18
		<i>NEUSORT2.0: A Multiple-Channel Neural Signal Processor with Systolic Array Buffer and Channel-Interleaving Processing Schedule</i> , pp. 5029-5032.	
		Chen, Tung-Chien	NTU/UCSC
		Yang, Zhi	Univ. of California, Santa Cruz
		Liu, Wentai	Univ. of California, Santa Cruz
		Chen, Liang-Gee	NTU

15:30-17:00 SaDPo10.19  
*A Simulation Study Assessing the Efficiency of Deriving Evoked Responses Using High Stimulus Rate*, pp. 5033-5036.

Wang, Tao Southern Medical Univ.  
 Su, Yuan-yuan Southern Medical Univ.  
 Shen, Qian Univ. of Miami  
 Ma, Jianhua Southern Medical Univ.

15:30-17:00 SaDPo10.20  
*Harmonic Coupling of Steady-State Visual Evoked Potentials*, pp. 5037-5040.

Krusiński, Dean Univ. of North Florida  
 Allison, Brendan Univ. of Bremen

15:30-17:00 SaDPo10.21  
*Quantitative Evaluation of Ocular Artifact Removal Methods Based on Real and Estimated EOG Signals*, pp. 5041-5044.

Noureddin, Borna Univ. of British Columbia  
 Lawrence, Peter Donald Univ. of British Columbia  
 Birch, Gary E. Univ. of British Columbia

**SaDPo11** Exhibit Hall C  
**Muscle and EMG (Poster Session)**

15:30-17:00 SaDPo11.1  
*Simultaneous Measurement of Force and Muscle Fatigue Using Frequency-Band Wavelet Analysis*, pp. 5045-5048.

Soo, Yewguan The Univ. of Tokyo  
 Sugi, Masao The Univ. of Tokyo  
 Yokoi, Hiroshi Univ. of Tokyo  
 Arai, Tamio The Univ. of Tokyo  
 Du, Rulin The Univ. of Tokyo  
 Ota, Jun The Univ. of Tokyo

15:30-17:00 SaDPo11.2  
*Fuzzy Discriminant Analysis Based Feature Projection in Myoelectric Control*, pp. 5049-5052.

Khushaba, Rami N. Univ. of Tech. Sydney  
 Al-Jumaily, Adel Univ. of Tech. Sydney  
 Al-Ani, Ahmed Univ. of Tech. Sydney

15:30-17:00 SaDPo11.3  
*Analysis of Dynamic EMG and Acceleration Measurements in Parkinson's Disease*, pp. 5053-5056.

Rissanen, Saara Mirjami Univ. of Kuopio  
 Kankaanpää, Markku Juhani Kuopio Univ. Hospital  
 Tarvainen, Mika Univ. of Kuopio  
 Meigal, Alexander Petrozavodsk State Univ.  
 Nuutinen, Juho Univ. hospital of Kuopio  
 Tarkka, Ina M Brain Res. and Rehabilitation Center Neuron

Airaksinen, Veikko Olavi Pietari Kuopio Univ. Hospital  
 Karjalainen, Pasi, A Univ. of Kuopio

15:30-17:00 SaDPo11.4  
*Intrinsic Mode Entropy: An Enhanced Classification Means for Automated Greek Sign Language Gesture Recognition*, pp. 5057-5060.

Kosmidou, Vasiliki Aristotle Univ. of Thessaloniki  
 Hadjileontiadis, Leontios Aristotle Univ. of Thessaloniki

15:30-17:00 SaDPo11.5  
*Classification of Upper Arm EMG Signals During Object-Specific Grasp*, pp. 5061-5064.

Martelloni, Chiara Scuola Superiore Sant'Anna  
 Carpaneto, Jacopo Scuola Superiore Sant'Anna  
 Micera, Silvestro Scuola Superiore Sant'Anna

15:30-17:00 SaDPo11.6  
*Estimation of Tendon Slack Lengths of Quadriceps Based on a Least Squares Optimization*, pp. 5065-5068.

Nam, Yoon-Su Kangwon National Univ.  
 Lee, Woo-Eun Kangwon National Univ.  
 Yoon, Tai-Jun Kangwon National Univ.

**SaDPo12** Exhibit Hall C  
**Neuromuscular Systems Posters (Poster Session)**

15:30-17:00 SaDPo12.1  
*Walking Pattern Analysis and SVM Classification Based on Simulated Gaits*, pp. 5069-5072.

Mao, Yuxiang Univ. of Aizu  
 Wei, Daming Univ. of Aizu  
 Kanno, Takehiro -  
 Saito, Masaru -  
 Muroi, Hiroyasu -

15:30-17:00 SaDPo12.2  
*A Study on Balance Maintenance Strategies During Walking*, pp. 5073-5076.

Ikemoto, Yu Chiba Univ. Chiba, Japan  
 Yu, Wenwei Univ. of Chiba  
 Jun, Inoue Chiba Univ. Chiba, Japan

15:30-17:00 SaDPo12.3  
*Effect of a Visual-Based Sensory Motor Task on Muscle Tuning During a Dynamic Balance Task*, pp. 5077-5080.

Betker, Aimee L. Univ. of Manitoba  
 Moussavi, Zahra Univ. of Manitoba  
 Szturm, Tony Univ. of Manitoba

15:30-17:00 SaDPo12.4  
*Do External Stimuli, Applied to Train Cultured Cortical Networks, Disturb the Balance between Activity and Connectivity?*, pp. 5081-5084.

le Feber, Joost Univ. of Twente  
 Stegenga, Jan Twente Univ.  
 Rutten, Wim Univ. of twente

15:30-17:00 SaDPo12.5  
*Spectral Analysis of Walking Improvement Utilizing AR Modeling*, pp. 5085-5088.

Tsuruoka, Masako Univ. of Tokyo  
 Tsuruoka, Yuriko The Inst. of Statistical Mathematics

15:30-17:00 SaDPo12.6  
*A Novel Approach Using Tendon Vibration of the Human Flexor Carpi Radialis Muscle to Study Spinal Reflexes*, pp. 5089-5092.

Tsang, Kenneth McMaster Univ.  
 de Bruin, Hubert McMaster Univ.  
 Archambeault, Mark McMaster Univ.

15:30-17:00 SaDPo12.7  
*Inherent Bimanual Postural Synergies in Hands*, pp. 5093-5096.

Vinjamuri, Ramana Univ. of Pittsburgh  
 Sun, Mingui Univ. of Pittsburgh  
 Crammond, Donald Univ. of Pittsburgh  
 ScLabassi, Robert Univ. of Pittsburgh  
 Mao, Zhi-Hong Univ. of Pittsburgh

15:30-17:00 SaDPo12.8  
*Time Course of Changes in Neuromuscular Properties Following Stroke*, pp. 5097-5100.

Mirbagheri, Mehdi Northwestern Univ.  
 Tsao, Chengchi Northwestern Univ.  
 Settle, Krista Rehabilitation Inst. of Chicago  
 Lilaonitkul, Thanan RIC/NU  
 Rymer, William Zev Northwestern & Rehab Inst. of Chicago

15:30-17:00 SaDPo12.10  
*A Footswitch Evaluation of the Gait of Elderly Fallers with and without a Diagnosis of Orthostatic Hypotension and Healthy Elderly Controls*, pp. 5101-5104.

Barrett, Alan National Univ. of Ireland, Galway  
 O'Connor, Margaret St Camillus Hospital  
 Culhane, Karen Univ. of Limerick  
 M.Finucane, Ann St. Camillus Hospital  
 ÓLaighin, Gearóid National Univ. of Ireland, Galway  
 Lyons, Declan St. Camillus Hospital

<b>SaDPo13</b>		Exhibit Hall C
<b>Health Technology Posters (Poster Session)</b>		
15:30-17:00	SaDPo13.1	
<i>Evolving Technologies Drive the New Roles of Biomedical Engineering</i> , pp. 5105-5108.		
Frisch, Paul	Memorial Sloan-Kettering Cancer Ctr	
StGermain, Jean	Memorial Sloan-Kettering Cancer Center	
Lui, Wei	Memorial Sloan Kettering Cancer Ctr	
15:30-17:00	SaDPo13.2	
<i>A Model for Simulation of Clinical Engineering Department Activities</i> , pp. 5109-5112.		
Balestra, Gabriella	Pol. di Torino	
Gaetano, Laura	Pol. di Torino	
Puppato, Daniele	ARESS Piemonte	
15:30-17:00	SaDPo13.3	
<i>A Hospital Registration System Using Syndromes' Descriptions Analysis and Information Retrieval Technology</i> , pp. 5113-5116.		
Yan, Gwo-Lang	Southern Taiwan Univ.	
Chiu, Yu-Hsien	Industrial Tech. Res. Inst.	
Hu, Ling-Chen	Fooyin Univ.	
Tsai, Ming-Shih	Department of Heath, Executive Yuan	
15:30-17:00	SaDPo13.4	
<i>Therapy Ultrasound Equipment Characterization: Comparison of Three Techniques</i> , pp. 5117-5120.		
Gutierrez, Mario Ibrahim	Centro de Investigacion y de Estudios Avanzados del Inst. Po	
Leija, Lorenzo	Centro de Investigacion y de Estudios Avanzados del Inst. Po	
Vera, Arturo	Centro de Investigacion y de Estudios Avanzados del Inst. Po	
15:30-17:00	SaDPo13.5	
<i>Proactive Medication Assurances Based on Spatiotemporal Context Awareness of Aged Persons</i> , pp. 5121-5124.		
Choi, Jaehun	Electronics and Telecommunications Res. Inst.	
Lim, Myungeun	ETRI	
Kim, Dae Hee	ETRI	
Park, Soo-Jun	Electr & Telecomm Res. Inst.	
15:30-17:00	SaDPo13.6	
<i>Lean Six Sigma Applied to a Process Innovation in a Mexican Health Institute's Imaging Department</i> , pp. 5125-5128.		
Garcia-Porres, Julieta	UAM - Iztapalapa	
Ortiz-Posadas, Martha	Univ. Autónoma Metropolitana	
Pimentel-Aguilar, Ana Bertha	Inst. Nacional de Enfermedades Res.	
15:30-17:00	SaDPo13.7	
<i>Generalized Caseview Applied to Prostate Cancer Prognosis</i> , pp. 5129-5131.		
Levy, Pierre	Univ. of Paris	
Bardier, Armelle	aphp	
Doublet, Jean-Dominique	hopital tenon	
Sibony, Mathilde	hopital tenon	
15:30-17:00	SaDPo13.8	
<i>Evaluation of a Compact Tinnitus Therapy by Electrophysiological Tinnitus Decomensation Measures</i> , pp. 5132-5135.		
Low, Yin Fen	Saarland Univ. Hospital and Saarland Univ. of Applied	
Argstatter, Heike	Viktor Dulger Inst.	
Bolay, Hans Volker	Univ. of Applied Sciences	
Strauss, Daniel J.	Computational Diagnostics & Biocybernetics Unit	
15:30-17:00	SaDPo13.9	
<i>Neurofeedback by Neural Correlates of Auditory Selective Attention As Possible Application for Tinnitus Therapies</i> , pp. 5136-5139.		
Busse, Michael	Saarland Univ. Hospital & Saarland Univ.	
Low, Yin Fen	Saarland Univ. Hospital and Saarland Univ. of Applied	
Corona-Strauss, Farah I.	Saarland Univ. Hospital	
Delb, Wolfgang	Saarland Univ. Hospital	
Strauss, Daniel J.	Computational Diagnostics & Biocybernetics Unit	
15:30-17:00	SaDPo13.10	
<i>Analysis of Significant Factors for Dengue Infection Prognosis Using the Self Organizing Map</i> , pp. 5140-5143.		
Faisal, Tarig		Univ. of Malaya
Ibrahim, Fatimah		Univ. of Malaya
Taib, Mohd Nasir		Univ. Teknologi MARA (UiTM)
<b>SaDPo14</b>		Exhibit Hall C
<b>Cancer Management in Telehealth (Poster Session)</b>		
15:30-17:00	SaDPo14.1	
<i>A Cooperative Approach for the Diagnosis of the Melanoma</i> , pp. 5144-5147.		
Ruiz Fernandez, Daniel		Univ. of Alicante
Berenguer Miralles, Vicente Jesús		Univ. of Alicante
Soriano Paya, Antonio		Univ. of Alicante
Martin Moreno, Javier		Univ. of Alicante
15:30-17:00	SaDPo14.2	
<i>Predicting Breast Cancer Survivability Using Fuzzy Decision Trees for Personalized Healthcare</i> , pp. 5148-5151.		
Khan, Muhammad Umer	AJOU Univ. Suwon, South Korea	
Choi, Jong Pill	AJOU Univ. Suwon, South Korea	
Shin, Hyunjung	Ajou Univ. South Korea	
Kim, Minkoo	AJOU Univ. Suwon, South Korea	
15:30-17:00	SaDPo14.3	
<i>Chemotherapy Side-Effect Management Using Mobile Phones</i> , pp. 5152-5155.		
Larsen, Mark Erik		Univ. of Oxford
Rowntree, Joanna	Oxford Radcliffe Hospitals NHS Trust	
Young, Annie	The 3 Counties Cancer Network	
Pearson, Sarah		Univ. of Oxford
Smith, Justine		Univ. of Oxford
Gibson, Oliver John		Univ. of Oxford
Weaver, Andrew	Oxford Radcliffe Hospitals NHS Trust	
Tarassenko, Lionel		Univ. of Oxford
15:30-17:00	SaDPo14.4	
<i>An Internet-Based Melanoma Screening System with Acral Volar Lesion Support</i> , pp. 5156-5159.		
Iyatomi, Hitoshi		Hosei Univ.
Celebi, M. Emre	Louisiana State Univ. in Shreveport	
Oka, Hiroshi		Shiromoto Clinic
Tanaka, Masaru		Tokyo Women's Medical Univ. Medical Center East
15:30-17:00	SaDPo14.5	
<i>Wireless Sensor Networks for Biomedical Applications in Cancer Hyperthermia</i> , pp. 5160-5163.		
Singh, V.R.		National Physical Lab.
Singh, Kanika		Indian Inst. of Tech. S
<b>SaDPo15</b>		Exhibit Hall C
<b>Activity Monitoring in Telehealth (Poster Session)</b>		
15:30-17:00	SaDPo15.1	
<i>Analysis of Physical Activities in Taekwondo Pumsae</i> , pp. 5164-5167.		
Lee, Sang-Bock		NamBu Univ.
Cha, Eun Jong		Chungbuk National Univ.
Lee, Tae Soo		Chungbuk National Univ.
15:30-17:00	SaDPo15.2	
<i>Independent Component Feature-Based Human Activity Recognition Via Linear Discriminant Analysis and Hidden Markov Model</i> , pp. 5168-5171.		
Uddin, Md. Zia		Kyung Hee Univ.
Lee, Jee Jun		Kyung Hee Univ.
Kim, Tae-Seong		Kyung Hee Univ.
15:30-17:00	SaDPo15.3	
<i>Accelerometer Signal-Based Human Activity Recognition Using Augmented Autoregressive Model Coefficients and Artificial Neural Nets</i> , pp. 5172-5175.		
Khan, Adil Mehmood		Kyung Hee Univ.
Kim, Tae-Seong		Kyung Hee Univ.

15:30-17:00	SaDPo15.4	17:45-18:00	SaET1.4
<i>Visualizing Physiological Condition of Two Persons During Cooperative Motion</i> , pp. 5176-5179.		<i>The Selection of Optimal ICA Algorithm Parameters for Robust AEP Component Estimates Using 3 Popular ICA Algorithms</i> , pp. 5216-5219.	
Matsukawa, Tsuyoshi	Nagoya City Univ.	Castaneda-Villa, Norma	Southampton Univ.
Yokoyama, Kiyoko	Nagoya City Univ.	James, Christopher	Univ. of Southampton
15:30-17:00	SaDPo15.5	18:00-18:15	SaET1.5
<i>Dynamic Analysis of Walking Stability</i> , pp. 5180-5183.		<i>Removal of Ballistocardiogram Artifact from EEG Data Acquired in the MRI Scanner: Selection of ICA Components</i> , pp. 5220-5223.	
Tsuruoka, Yuriko	The Inst. of Statistical Mathematics	Koskinen, Miika	Helsinki Univ. of Tech.
Tsuruoka, Masako	Univ. of Tokyo	Vartiainen, Nuutti	Helsinki Univ. of Tech.
15:30-17:00	SaDPo15.6	18:15-18:30	SaET1.6
<i>Ambulatory Monitoring of Human Posture and Walking Speed Using Wearable Accelerometer Sensors</i> , pp. 5184-5187.		<i>Electrocorticographic Interictal Spike Removal Via Denoising Source Separation for Improved Neuroprosthesis Control</i> , pp. 5224-5227.	
Yeoh, Wee Soon	Inst. for Infocomm Res.	Gunduz, Aysegul	Univ. of Florida
Pek, Isaac	Inst. for Infocomm Res.	Sanchez, Justin C.	Univ. of Florida
Yong, Yi Han	Inst. for Infocomm Res.	Principe, Jose	Univ. of Florida
Chen, Xiang	Inst. for Infocomm Res.		
Waluyo, Agustinus Borgy	Inst. for Infocomm Res.		
15:30-17:00	SaDPo15.7	<b>SaET2</b>	Ballroom B
<i>Daily Activity Recognition System for the Elderly Using Pressure Sensors</i> , pp. 5188-5191.		<b>Neural Networks and Pattern Classification (Oral Session)</b>	
Lim, Joon-Ho	Electronics & Telecom Res. Inst.	17:00-17:15	SaET2.1
Jang, Hyunchul	Korea Inst. of Oriental Medicine	<i>Development of a Micro-Macro Neural Network to Recognize Rollover Movement</i> , pp. 5228-5233.	
Jang, Jaewon	Electronics & Telecom Res. Inst.	Ando, Takeshi	Waseda Univ.
Park, Soo-Jun	Electr & Telecomm Res. Inst.	Okamoto, Jun	Waseda Univ.
15:30-17:00	SaDPo15.8	Fujie, Masakatsu G.	Waseda Univ.
<i>Classification of Continuously Executed Early Morning Activities Using Wearable Wireless Sensors</i> , pp. 5192-5195.		17:15-17:30	SaET2.2
Min, Cheol-Hong	Univ. of Minnesota	<i>Long Short-Term Memory for Apnea Detection Based on Heart Rate Variability</i> , pp. 5234-5237.	
Ince, Nuri Firat	Univ. of Minnesota	Novak, Daniel	Czech Tech. Univ. in Prague
Tewfik, Ahmed	Univ. of Minnesota	Mucha, Karel	Czech Tech. Univ. in Prague
15:30-17:00	SaDPo15.9	Al-Ani, Tarik	Groupe EISEE
<i>Estimation of Physical Constraint Condition by Analyzing Walking Motions</i> , pp. 5196-5199.		17:30-17:45	SaET2.3
Kurita, Yuichi	Nara Inst. of Science & Tech.	<i>Recognition of Aggressive Human Behavior Using Binary Local Motion Descriptors</i> , pp. 5238-5241.	
Kuraki, Daisuke	Nara Inst. of Science and Tech.	Chen, Datong	Carnegie Mellon Univ.
Ueda, Etsuko	Nara Sangyo Univ.	Wactlar, Howard	Carnegie Mellon Univ.
Matsumoto, Yoshio	Nara Inst. of Science and Tech.	Ming-yu, Chen	CMU
Ogasawara, Tsukasa	Nara Inst. of Science and Tech.	Can, Gao	CMU
15:30-17:00	SaDPo15.10	Bharucha, Ashok	Univ. of Pittsburgh
<i>Toward Real Time Detection of the Basic Living Activity in Home Using a Wearable Sensor and Smart Home Sensors</i> , pp. 5200-5203.		Alex, Hauptmann	CMU
Bang, SunLee	Electronics & Telecom Res. Inst.	17:45-18:00	SaET2.4
Kim, Minh	ETRI	<i>Fuzzy Structural Algorithms to Identify and Characterize Apnea and Hypopnea Episodes</i> , pp. 5242-5245.	
Song, Sa-kwang	Electronics & Telecommunications Res. Inst.	Otero, Abraham	San Pablo CEU
Park, Soo-Jun	Electr & Telecomm Res. Inst.	Félix Lamas, Paulo	Univ. of Santiago de Compostela
		Rodriguez Álvarez, Miguel	Univ. of Santiago de Compostela
		Zamarrón, Carlos	Hospital Clínico Univ.
<b>SaET1</b>	Ballroom A	18:00-18:15	SaET2.5
<b>Independent Component Analysis (Oral Session)</b>		<i>Recognition of Aging Effect from Cardiomechanical Signals Using Novel SF-ART Neural Network</i> , pp. 5246-5249.	
17:00-17:15	SaET1.1	Akhbardeh, Alireza	Drexel Univ.
<i>Removal of ECG Artifacts from EEG Using a Modified Independent Component Analysis Approach</i> , pp. 5204-5207.		Tavakolian, Kouhyar	Simon Fraser Univ.
Devuyt, Stéphanie	Faculté Pol. de Mons	Kaminska, Bozena	Simon Fraser Univ.
Dutoit, Thierry	Faculté Pol. de Mons		
Stenuit, Patricia	CHU Vésale	18:15-18:30	SaET2.6
Kerkhofs, Myriam	CHU Vésale	<i>Context-Aware Mobile Health Monitoring: Evaluation of Different Pattern Recognition Methods for Classification of Physical Activity</i> , pp. 5250-5253.	
Stanus, Etienne	Tivoli Hospital	Caldas Jatobá, Luciana	Univ. of Karlsruhe
17:15-17:30	SaET1.2	Grossmann, Ulrich	Univ. of Karlsruhe
<i>A Generalized Subspace Approach for Estimating Visual Evoked Potentials</i> , pp. 5208-5211.		Kunze, Christophe	Forschungszentrum Informatik (FZI)
Kamel, Nidal	Tech. Univ. of PETRONAS	Ottenbacher, Joerg Mathias	Univ. of Karlsruhe
Yusoff, Mohd Zuki	Univ. Teknologi Petronas	Stork, Wilhelm	Univ. of Karlsruhe
17:30-17:45	SaET1.3		
<i>Comparison of Unsupervised and Supervised Gene Selection Methods</i> , pp. 5212-5215.			
Herold, Daniela	Univ. of Regensburg		
Lutter, Dominik	Univ. Hospital Regensburg		
Schachtner, Reinhard	Univ. of Regensburg		
Tome, Ana Maria	Univ. de Aveiro		
Schmitz, Gerd	Univ. Hospital Regensburg		
Lang, Elmar W.	Univ. of Regensburg		



<b>SaET3</b>	Ballroom C		
<b>E-Health, M-Health and P-Health: Systems (Oral Session)</b>			
17:00-17:15	SaET3.1		
<i>An Integrated Biomedical Telemetry System for Sleep Monitoring Employing a Portable Body Area Network of Sensors (SENSATION)</i> , pp. 5254-5257.			
Astaras, Alexander	Aristotle Univ. of Thessaloniki		
Arvanitidou, Marina Georgia	Tech. Univ. of Berlin		
Chouvarda, Ioanna	Aristotle Univ.		
Kilintzis, Vassilis	Aristotle Univ. of Thessaloniki		
Koutkias, Vassilis	Aristotle Univ. of Thessaloniki		
Monton, Eduardo	ITACA Inst. - Pol. Univ. of Valencia		
Stalidis, George	Pouliadis Associates Corp.		
Maglaveras, Nikolaos	Aristotle Univ. of Thessaloniki		
Triantafyllidis, Andreas	AUTH		
17:15-17:30	SaET3.2		
<i>An Effective Method for Component Activity Classification Supporting Location Awareness and User Identification</i> , pp. 5258-5261.			
Jang, Jaewon	Electronics & Telecom Res. Inst.		
Song, Sa-kwang	Electronics & Telecommunications Res. Inst.		
Park, Soo-Jun	Electr & Telecomm Res. Inst.		
17:30-17:45	SaET3.3		
<i>Improving Actigraph Sleep/Wake Classification with Cardio-Respiratory Signals</i> , pp. 5262-5265.			
Karlen, Walter	EPFL		
Mattiussi, Claudio	EPFL		
Floreano, Dario	Ec. Pol. Federale de Lausanne		
17:45-18:00	SaET3.4		
<i>Optical Fibre Sensors Embedded into Technical Textile for a Continuous Monitoring of Patients under Magnetic Resonance Imaging</i> , pp. 5266-5269.			
De jonckheere, Julien	USTL		
Narbonneau, François	Multitel		
Kinet, Damien	Multitel		
Zinke, Julia	Fiberware GmbH		
Paquet, Bernard	Centexbel		
Depré, Annick	Elasta		
Jeanne, Mathieu	CHRU de Lille		
Logier, Regis	CHRU de Lille		
18:00-18:15	SaET3.5		
<i>Smart Fabrics and Interactive Textile Enabling Wearable Personal Applications: R&amp;D State of the Art and Future Challenges</i> , pp. 5270-5273.			
Lymberis, Andreas	European Commission		
Paradiso, Rita	Milior SpA		
18:15-18:30	SaET3.6		
<i>Wearable System-On-A-Chip UWB Radar for Contact-Less Cardiopulmonary Monitoring: Present Status</i> , pp. 5274-5277.			
Zito, Domenico	Univ. of Pisa		
Pepe, Domenico	Univ. of Pisa		
Mincica, Martina	Univ. of Pisa		
Zito, Fabio	Univ. "Mediterranea" di Reggio Calabria		
De Rossi, Danilo	Univ. of Pisa		
Lanata', Antonio	Univ. of Pisa		
Scilingo, Enzo Pasquale	Univ. of Pisa		
Tognetti, Alessandro	Univ. of Pisa		
<b>SaET4</b>	Room 11 & 12		
<b>Ultrasound (Oral Session)</b>			
17:00-17:15	SaET4.1		
<i>Non-Invasive Three-Dimensional Imaging of Human Diaphragm In-Vivo</i> , pp. 5278-5281.			
Quaranta, Marco	Pol. di Milano		
Salito, Caterina	Pol. di Milano		
Magalotti, Elena	Pol. di Milano		
Monaco, Pierpaolo	Pol. di Milano		
Forlani, Christian	Pol. di Milano		
Pedotti, Antonio	Pol. di Milano		
Aliverti, Andrea	Pol. di Milano		
17:15-17:30			SaET4.2
<i>Towards Detecting Surgical Clips in 3D Ultrasound for Target Localization in Radiation Therapy: A Study on Tissue Phantoms</i> , pp. 5282-5285.			
Karim Aghaloo, Zahra		Queen's Univ.	
Shrawane, Prasad		The Univ. of British Columbia	
Abolmaesumi, Purang		Queen's Univ.	
Fichtinger, Gabor		Johns Hopkins Univ.	
Rohling, Robert		Univ. of British Columbia	
17:30-17:45			SaET4.3
<i>A Novel Method to Estimate the Aortic Pressure Waveform Using B-Mode Ultrasound Images Acquired from a Suprasternal View</i> , pp. 5286-5289.			
Leung, Mande		Univ. of British Columbia	
Dumont, Guy		Univ. of British Columbia	
Sandor, George G. S.		British Columbia's Children Hospital	
Potts, Terri		British Columbia Children's Hospital	
Potts, James		British Columbia's Children Hospital	
17:45-18:00			SaET4.4
<i>A Sensitive Ultrasonic Imaging Method for Targeted Contrast Microbubbles Detection</i> , pp. 5290-5293.			
Zheng, Hairong		Shenzhen Inst. of Advanced Tech. Acad. Scie	
18:00-18:15			SaET4.5
<i>Development of an Ultrasound System for Measuring Tissue Strain of Lymphedema</i> , pp. 5294-5297.			
Tsubai, Masayoshi		National Inst. of (AIST)	
Fukuda, Osamu		National Inst. of AIST	
Ueno, Naohiro		National Inst. of Advanced Industrial Science and Technology	
		Industrial Tech. Center of Nagasaki	
		Kyushu Univ.	
Horie, Takao			
Muraki, Satoshi			
18:15-18:30			SaET4.6
<i>Ultrasonic Measurement of Vascular Scaffold Elasticity Using Catheter System</i> , pp. 5298-5301.			
Nitta, Naotaka		National Inst. of Advanced Industrial Science and Technology (A	
Yamane, Takashi		National Inst. of Advanced Industrial Science and Technology	
		Tokyo Women's Medical Univ.	
		Univ. of Tsukuba	
Matsumura, Goki			
Shiina, Tsuyoshi			
<b>SaET5</b>	Room 1		
<b>Brain-Machine Interfacing Via Motor Cortical Potentials (Oral Session)</b>			
17:00-17:15			SaET5.1
<i>Impact of Compressed Sensing of Motor Cortical Activity on Spike Train Decoding in Brain Machine Interfaces</i> , pp. 5302-5305.			
Aghagolzadeh, Mehdi		Michigan State Univ.	
Shetliffe, Michael		Michigan State Univ.	
Oweiss, Karim		Michigan State Univ.	
17:15-17:30			SaET5.2
<i>Decoding Hand and Cursor Kinematics from Magnetoencephalographic Signals During Tool Use</i> , pp. 5306-5309.			
Bradberry, Trent		Univ. of Maryland	
Contreras-Vidal, José		Univ. of Maryland	
Rong, Feng		Univ. of Maryland	
17:30-17:45			SaET5.3
<i>Steady-State Movement Related Potentials for Brain Computer Interfacing</i> , pp. 5310-5313.			
Nazarpour, Kianoush		Univ. of Birmingham	
Praamstra, Peter		Univ. of Birmingham	
Miall, R Christopher		Univ. of Birmingham	
Sanei, Saeid		Cardiff Univ.	

17:45-18:00		SaET5.4	18:00-18:15		SaET6.5
<i>Spectral Modulation of LFP Activity in M1 During Dexterous Finger Movements</i> , pp. 5314-5317.			<i>New Functions Developed for ICU/CCU Remote Monitoring System Using a 3G Mobile Phone and Evaluations of the System</i> , pp. 5342-5345.		
Mollazadeh, Mohsen	Johns Hopkins Univ.		Zhang, Pu	The Univ. of Tokushima	
Aggarwal, Vikram	Johns Hopkins Univ.		Kumabe, Akinobu	Univ. of Tokushima	
Singhal, Girish	Johns Hopkins Univ.		Kogure, Yuichi	Univ. of Tokushima	
Law, Andrew	Univ. of Rochester		Akutagawa, Masatake	The Univ. of Tokushima	
Davidson, Adam	Univ. of Rochester		Kinouchi, Yohsuke	The Univ. of Tokushima	
Schieber, Marc	Univ. of Rochester		Zhang, Qinyu	ShenZhen Graduate School, Harbin Inst. of Tech. ShenZh	
Thakor, Nitish	Johns Hopkins Univ.				
18:00-18:15		SaET5.5	18:15-18:30		SaET6.6
<i>Three Cases of Feature Correlation in an Electrographic BCI</i> , pp. 5318-5321.			<i>Subjective and Objective Quality Assessment in Wireless TeleUltrasound Imaging</i> , pp. 5346-5349.		
Miller, Kai J	Univ. of Washington		Istepanian, Robert	Kingston Univ.	
Blakely, Timothy	Univ. of Washington		Philip, Nada	Kingston Univ.	
Schalk, Gerwin	Wadsworth Center, New York State Department of Health		Martini, Maria	Univ. of Bologna	
denNijs, Marcel	Univ. of Washington				
Rao, Rajesh PN	Univ. of Washington				
Ojemann, Jeffrey G	Univ. of Washington				
18:15-18:30		SaET5.6			
<i>RatCar System for Estimating Locomotion States Using Neural Signals with Parameter Monitoring: Vehicle-Formed Brain-Machine Interfaces for Rat</i> , pp. 5322-5325.					
Fukayama, Osamu	The Univ. of Tokyo				
Taniguchi, Noriyuki	The Univ. of Tokyo				
Suzuki, Takafumi	The Univ. of Tokyo				
Mauchi, Kunihiko	Univ. of Tokyo				
<b>SaET6</b>		Room 2 & 3	<b>SaET7</b>		Room 8 & 15
<b>Mobile Healthcare (M-Health) (Oral Session)</b>			<b>Neuromuscular Systems (Oral Session)</b>		
17:00-17:15		SaET6.1	17:00-17:15		SaET7.1
<i>Wireless Medical Ultrasound Video Transmission through Noisy Channels</i> , pp. 5326-5329.			<i>Reflex Modulation Is Linked to the Orientation of Arm Mechanics Relative to the Environment</i> , pp. 5350-5353.		
Panayides, Andreas	Univ. of Cyprus		Krutky, Matthew	Northwestern Univ.	
Pattichis, Marios	Univ. of New Mexico,		Ravichandran, Vengateswaran	Northwestern Univ.	
Pattichis, Constantinos	Univ. of Cyprus		Trumbower, Randy	Northwestern Univ.	
17:15-17:30		SaET6.2	Perreault, Eric	Northwestern Univ.	
<i>Development of a Cell-Phone Based Video Streaming System for Persons with Early Stage Alzheimer's Disease</i> , pp. 5330-5333.			17:15-17:30		SaET7.2
Donnelly, Mark	Univ. of Ulster		<i>Impedance Control Complements Incomplete Internal Models under Complex External Dynamics</i> , pp. 5354-5357.		
Nugent, Chris	Univ. of Ulster		Tomi, Naoki	Tokyo Inst. of Tech.	
Craig, David	Queen's Univ. Belfast		Gouko, Manabu	Tokyo Inst. of Tech.	
Passmore, Anthony Peter	Queen's Univ. Belfast		Ito, Koji	Tokyo Inst. of Tech.	
Mulvenna, Maurice	Univ. of Ulster		17:30-17:45		SaET7.3
17:30-17:45		SaET6.3	<i>Impedance Control Is Tuned to Multiple Directions of Movement</i> , pp. 5358-5361.		
<i>Electronic Data Capture Platform for Clinical Research Based on Mobile Phones and Near Field Communication Technology</i> , pp. 5334-5337.			Kadiallah, Abdelhamid	Imperial Coll. London	
Morak, Jürgen Markus	Austrian Res. Centers GmbH - ARC		Liaw, Gary	ATR	
Schwetz, Verena	Medical Univ. of Graz		Burdet, Etienne	Imperial Coll. London	
Hayn, Dieter	Austrian Res. Centers GmbH - ARC		Kawato, Mitsuo	ATR Computational Neuroscience Lab.	
Fruhwald, Friedrich	Medical Univ. of Graz		Franklin, David W.	Univ. of Cambridge	
Schreier, Guenter	Austrian Res. Centers GmbH - ARC		17:45-18:00		SaET7.4
17:45-18:00		SaET6.4	<i>Exploring the Human Grip Force System: A Preliminary Study</i> , pp. 5362-5365.		
<i>A Mobile-Phone Based Teledermatology System to Support Self-Management of Patients Suffering from Psoriasis</i> , pp. 5338-5341.			Villasenor-Herrera, Alejandro	McGill Univ.	
Schreier, Guenter	Austrian Res. Centers GmbH - ARC		De Serres, Sophie Jeannine	McGill Univ.	
Hayn, Dieter	Austrian Res. Centers GmbH - ARC		Wagner, Ross	McGill Univ.	
Kastner, Peter	Austrian Res. Centers GmbH - ARC		Kearney, Robert Edward	McGill Univ.	
Silvia, Koller	Medical Univ. Graz		18:00-18:15		SaET7.5
Salmhofer, Wolfgang	Medical Univ. Graz		<i>Synergies During Reach-To-Grasp: A Comparative Study between Healthy and C6-C7 Quadriplegic Subjects</i> , pp. 5366-5369.		
Hofmann-Wellenhof, Rainer	Medical Univ. Graz		Jacquier-Bret, Julien	Univ. du Sud - Toulon - Var	
			Rezzoug, Nasser	Univ. du Sud Toulon-Var, Lab. Handibio EA 3162 Univ. du Sud Toulon Var	
			Gorce, Philippe		
			18:15-18:30		SaET7.6
			<i>Muscle Synergies During Walking: Comparison between Young and Elderly People. Preliminary Results</i> , pp. 5370-5373.		
			Monaco, Vito	IMT	
			Ghionzoli, Alessio	Scuola Superiore Sant'Anna	
			Dario, Paolo	Scuola Superiore Sant'Anna	
			Micera, Silvestro	Scuola Superiore Sant'Anna	
			<b>SaET8</b>		Room 19 & 20
			<b>Rigid-Body Image Registration (Oral Session)</b>		
			17:00-17:15		SaET8.1
			<i>Global Registration of Multiple Bone Fragments Using Statistical Atlas Models: Feasibility Experiments</i> , pp. 5374-5377.		
			Hedjazi Moghari, Mehdi	Queens Univ.	
			Abolmaesumi, Purang	Queen's Univ.	

17:15-17:30	SaET8.2
<i>Simultaneous Registration and Intensity Normalization of SPECT Perfusion Images</i> , pp. 5378-5381.	
Silveira, Margarida	Inst. Superior Técnico Univ.
Aguiar, Pedro M. Q.	ISR / IST
17:30-17:45	SaET8.3
<i>Real-Time Intensity-Based Rigid 2D-3D Medical Image Registration Using RapidMind Multi-Core Development Platform</i> , pp. 5382-5385.	
Xu, Lin	Univ. of Waterloo
Wan, Justin	Univ. of Waterloo
17:45-18:00	SaET8.4
<i>Effective 2D3D Medical Image Registration Using Support Vector Machine</i> , pp. 5386-5389.	
Qi, Wenyuan	Shanghai Jiaotong Univ.
Gu, Lixu	Shanghai Jiaotong Univ.
Zhao, Qiang	Shanghai Zhongshan Hospital, Fudan Univ.
18:00-18:15	SaET8.5
<i>Efficient Feature Based Multi Slice to Volume Registration Using Phase Congruency</i> , pp. 5390-5393.	
Dalvi, Rupin	Univ. of British Columbia
Abugharbieh, Rafeef	Univ. of British Columbia
18:15-18:30	SaET8.6
<i>3D-3D Tubular Organs Registration Based on Bifurcations for the CT Images</i> , pp. 5394-5397.	
Zhou, Jinghao	Rutgers, the State Univ. of New Jersey
Chang, Sukmoon	Capital Coll. Penn State Univ.
Metaxas, Dimitris	Rutgers Univ.
Mageras, Gig	Memorial Sloan-Kettering Cancer Center

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**SaET9** Room 10  
**Signals in Cardiovascular System (Oral Session)**

17:00-17:15	SaET9.1
<i>Periodic Breathing and State Instability During Supine Laboratory Recordings in Chronic Heart Failure Patients</i> , pp. 5398-5401.	
Pinna, Gian Domenico	S. Maugeri Foundation, IRCCS
Maestri, Roberto	S. Maugeri Foundation, IRCCS
Robbi, Elena	S. Maugeri Foundation, IRCCS
La Rovere, Maria Teresa	S. Maugeri Foundation, IRCCS
17:15-17:30	SaET9.2
<i>Abdominal Fetal ECG Enhancement by Event Synchronous Cancellation</i> , pp. 5402-5405.	
Taralunga, Dragos-Daniel	Pol. Univ. of Bucharest
Wolf, Werner	Univ. AF Munich
Strungaru, Rodica	Pol. Univ. of Bucharest
Ungureanu, Mihaela	Pol. Univ. of Bucharest
17:30-17:45	SaET9.3
<i>Fully Digital Pacemaker Detection in ECG Signals Using a Non-Linear Filtering Approach</i> , pp. 5406-5410.	
Polpetta, Alessandro	Univ. of Perugia
Banelli, Paolo	Univ. of Perugia
17:45-18:00	SaET9.4
<i>Nonlinear Regression for Sub-Peak Detection of Intracranial Pressure Signals</i> , pp. 5411-5414.	
Scalzo, Fabien	Geffen School of Medicine
Xu, Peng	Univ. of California, Los Angeles
Bergsneider, Marvin	Univ. of California, Los Angeles
Hu, Xiao	Univ. of California, Los Angeles
18:00-18:15	SaET9.5
<i>A Two-Pulse Technique for Extracting 3rd Harmonic from Ultrasound Contrast Agent Echo Signal</i> , pp. 5415-5418.	
Song, Jae-Hee	Sogang Univ.
Kim, Sang-Min	Sogang Univ.
Song, Tai-Kyong	Sogang Univ.

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**SaET10** Room 18  
**Retinal Image Analysis: Pathologies (Invited Session)**

Organizer: Ruggeri, Alfredo		Univ. of Padova
17:00-17:15	SaET10.1	
<i>Automatic Registration of Retina Images Based on Genetic Techniques (I)</i> , pp. 5419-5424.		
Troglio, Giulia	Univ. of Iceland	
Benediktsson, Jon Atli	Univ. of Iceland	
Serpico, Sebastiano Bruno	Univ. of Genoa	
Moser, Gabriele	Univ. of Genoa	
Karlsson, Robert A.	Univ. of Iceland	
Halldorrsson, Gisli	Univ. of Iceland	
Stefánsson, Einar	Univ. of Iceland	
17:15-17:30	SaET10.2	
<i>Automatic Detection of Red Lesions in Retinal Images Using a Multilayer Perceptron Neural Network (I)</i> , pp. 5425-5428.		
Garcia, Maria	Univ. of Valladolid	
Sánchez, Clara I.	Univ. of Valladolid	
López, Maria I.	Univ. of Valladolid	
Díez, Ana	Univ. of Valladolid	
Hornero, Roberto	Univ. of Valladolid	
17:30-17:45	SaET10.3	
<i>Improvement of Automated Detection Method of Hemorrhages in Fundus Images (I)</i> , pp. 5429-5432.		
Hatanaka, Yuji	Univ. of Shiga Prefecture	
Nakagawa, Toshiaki	Kowa, Company, Ltd.	
Hayashi, Yoshinori	TAK CO., LTD.	
Hara, Takeshi	Gifu Univ. Graduate Sch of Medicine	
Fujita, Hiroshi	Gifu Univ.	
17:45-18:00	SaET10.4	
<i>Retina Lesion and Microaneurysm Segmentation Using Morphological Reconstruction Methods with Ground-Truth Data (I)</i> , pp. 5433-5436.		
Karnowski, Thomas	Oak Ridge National Lab.	
Chaum, Edward	Univ. of Tennessee Hamilton Eye Inst.	
Tobin, Kenneth	Oak Ridge National Lab.	
Govindasamy, V. Priya	Oak Ridge National Lab.	
Abramoff, Michael David	Univ. of Iowa	
18:00-18:15	SaET10.5	
<i>Contextual Detection of Diabetic Pathology in Wide-Field Retinal Angiograms (I)</i> , pp. 5437-5440.		
Buchanan, Colin	Heriot-Watt Univ.	
Trucco, Emanuele	Univ. of Dundee	
18:15-18:30	SaET10.6	
<i>Using a Patient Image Archive to Diagnose Retinopathy (I)</i> , pp. 5441-5444.		
Tobin, Kenneth	Oak Ridge National Lab.	
Abramoff, Michael David	Univ. of Iowa	
Chaum, Edward	Univ. of Tennessee Hamilton Eye Inst.	
Giancardo, Luca	Univ. of Burgundy	
Govindasamy, V. Priya	Oak Ridge National Lab.	
Karnowski, Thomas	Oak Ridge National Lab.	
Tennant, Matthew	Univ. of Alberta	
Swainson, Stephen	Univ. of Alberta	

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**SaET11** Room 16  
**Models and Simulations of Physiological Systems (Oral Session)**

17:00-17:15	SaET11.1
<i>Computational Study of an Augmented Minimal Model for Glycaemia Control</i> , pp. 5445-5448.	
Markakis, Mihalis	Massachusetts Inst. of Tech.
Mitsis, Georgios D.	National Tech. Univ. of Athens
Marmarelis, Vasilis	Univ. of Southern California
17:15-17:30	SaET11.2
<i>A Software Framework for Multiscale and Multilevel Physiological Model Integration and Simulation</i> , pp. 5449-5453.	
Erson, E. Zeynep	Case Western Res. Univ.
Cavusoglu, M. Cenk	Case Western Res. Univ.

17:30-17:45	SaET11.3		
<i>Physiologically Based Pharmacokinetic Model of Midazolam Disposition During Pregnancy</i> , pp. 5454-5457.			
Andrew, Marilee A.	Univ. of Washington		
Hebert, Mary F.	Univ. of Washington		
Vicini, Paolo	Univ. of Washington		
17:45-18:00	SaET11.4		
<i>An Agent-Based Stochastic Tumor Model for Predicting Mitotic Arrest Drug Response</i> , pp. 5458-5461.			
Fox, Brandon	Georgia Inst. of Tech.		
Moffitt, Richard A.	Georgia Inst. of Tech.		
Wang, May Dongmei	Georgia Tech. and Emory Univ.		
18:00-18:15	SaET11.5		
<i>Mechanistic Simulations Explain Paradoxical Saquinavir Metabolism During In Vitro Vectorial Transport Study</i> , pp. 5462-5465.			
Lam, Tai Ning	Univ. of California, San Francisco		
Hunt, C. Anthony	Univ. of California		
18:15-18:30	SaET11.6		
<i>Model Predictive Control of Blood Glucose in Type 1 Diabetes: The Principal Dynamic Modes Approach</i> , pp. 5466-5469.			
Markakis, Mihalís	Massachusetts Inst. of Tech.		
Mitsis, Georgios D.	National Tech. Univ. of Athens		
Papavassilopoulos, George	National Tech. Univ. of Athens		
Marmarelis, Vasilis	Univ. of Southern California		
<b>SaET13</b>		Room 9	
<b>You're Hired! Successfully Negotiating Your First Academic/Industry Appointment (Minisymposium)</b>			
17:00-18:30	SaET13.1		
<i>You're Hired! Negotiating Your First Biomedical Engineering Position: Academia vs. Private Sector (I)</i> , pp. 5931-5932.			
Linte, Cristian A.	Robarts Res. Inst.		
<b>SuPL1</b>		Exhibit Hall A	
<b>Biomimetic Micro-Electronic Systems As Neural Prostheses (Plenary)</b>			
08:00-09:00	SuPL1.1		
<i>Biomimetic Micro-Electronic Systems As Neural Prostheses: Restoration of Lost Memory Function and Enhancement of Normal Memory Function with Implantable Spatio-Temporal Models of Hippocampal Input-Output Activity*</i> .			
Berger, Theodore	Univ. of Southern California		
<b>SuAT1</b>		Ballroom A	
<b>ECG Signal Classification (Oral Session)</b>			
09:00-09:15	SuAT1.1		
<i>Phase Space Reconstruction Approach for Ventricular Arrhythmias Characterization</i> , pp. 5470-5473.			
Rocha, Teresa	Inst. Superior de Engenharia de Coimbra		
Paredes, Simão	Inst. Superior de Engenharia de Coimbra		
Carvalho, Paulo	Univ. of Coimbra		
Henriques, Jorge	Univ. of Coimbra		
Antunes, Manuel	Univ. of Coimbra		
09:15-09:30	SuAT1.2		
<i>Automated Patient-Specific Classification of Premature Ventricular Contractions</i> , pp. 5474-5477.			
Ince, Turker	Izmir Univ. of Ec.		
Kiranyaz, Serkan	Tampere Univ. of Tech.		
Gabbouj, Moncef Gabbouj	Tampere Univ. of Tech.		
09:30-09:45	SuAT1.3		
<i>A Covariance-Based Algorithm: A Novel Technique for Rhythm Discrimination in ICDs</i> , pp. 5478-5481.			
Kamoussi, Baharan	Stanford Univ.	U of Minnesota	
Lin, Bryant	Stanford Univ.		
Al-Ahmad, Amin	Stanford Univ.		
Hsia, Henry	Stanford Univ.		
Zei, Paul	Stanford Univ.		
Natale, Andrea	Stanford Univ.		
Moss, Arthur, J.	Univ. of Rochester		
Daubert, James P.	Univ. of Rochester		
Zareba, Wojciech	Univ. of Rochester		
Wang, Paul	Stanford Univ.		
09:45-10:00	SuAT1.4		
<i>Detection of Atrial Fibrillation Episodes Using Multiple Heart Rate Variability Features in Different Time Periods</i> , pp. 5482-5485.			
Kim, Desok	Information and Communications Univ.		
Seo, Yunhwan	Information and Communications Univ.		
Youn, Chan-Hyun	Information and communications Univ.		
10:00-10:15	SuAT1.5		
<i>Investigation of Photoplethysmogram Morphology for the Detection of Hypovolemic States</i> , pp. 5486-5489.			
Cox, Paul		PERL Res.	
Madsen, Chris		PERL Res.	
Ryan, Kathy		US Army Inst. of Surgical Res.	
Convertino, Victor		U.S. Army Inst. of Surgical Res.	
Jovanov, Emil		Univ. of Alabama in Huntsville	
10:15-10:30	SuAT1.6		
<i>A Low Cost Quadratic Level ECG Compression Algorithm and Its Hardware Optimization for Body Sensor Network System</i> , pp. 5490-5493.			
Kim, Hyejung		KAIST	
Kim, Yongsang		KAIST	
Yoo, Hoi-Jun		KAIST	
<b>SuAT2</b>		Ballroom B	
<b>Point of Care Diagnostics and Global Health (Minisymposium)</b>			
09:00-09:15	SuAT2.1		
<i>Point of Care Diagnostics and Global Health (I)*.</i>			
Yager, Paul		Univ. of Washington	
<b>SuAT3</b>		Ballroom C	
<b>Diffusion MRI Analysis (Oral Session)</b>			
09:00-09:15	SuAT3.1		
<i>Correlations of Diffusion Tensor Imaging Values and Symptom Scores in Patients with Schizophrenia</i> , pp. 5494-5497.			
Michael, Andrew		Rochester Inst. of Tech. / The MIND Res. Network	
Calhoun, Vince		The Mind Res. Network/Univ. of New Mexico	
Pearlson, Godfrey		Yale Univ. School of Medicine	
Baum, Stefi		Rochester Inst. of Tech.	
Caprihan, Arvind		The MIND Res. Network	
09:15-09:30	SuAT3.2		
<i>An MR-DTI Based Fiber Tracking Method Toward the Multimodal Integrative Study on Cognitive Brain Functions</i> , pp. 5498-5501.			
Kobayashi, Tetsuo		Kyoto Univ.	
Oida, Takenori		Graduate School of Engineering, Kyoto Univ.	
09:30-09:45	SuAT3.3		
<i>Segmentation of Diffusion-Weighted Brain Images Using Expectation Maximization Algorithm Initialized by Hierarchical Clustering</i> , pp. 5502-5505.			
Lu, Chia-Feng		National Yang-Ming Univ.	
Wang, Po-Shan		National Yang-Ming Univ.	
Chou, Yen-Chun		National Yang-Ming Univ.	
Li, Hsiao-Chien		National Yang-Ming Univ.	
Soong, Bing-Wen		National Yang-Ming Univ.	
Wu, Yu-Te		National Yang-Ming Univ.	

09:45-10:00 SuAT3.4  
*Evaluation of Alzheimer's Disease by Analysis of MR Images Using Objective Dialectical Classifiers As an Alternative to ADC Maps*, pp. 5506-5509.

dos Santos, Wellington Univ. de Pernambuco  
 de Assis, Francisco Marcos Univ. Federal de Campina Grande  
 Souza, Ricardo Univ. Federal de Pernambuco  
 Santos Filho, Plínio North Carolina State Univ.

10:00-10:15 SuAT3.5  
*A Method to Classify Schizophrenia Using Inter-Task Spatial Correlations of Functional Brain Images*, pp. 5510-5513.

Michael, Andrew Rochester Inst. of Tech. /  
 The MIND Res. Network  
 Calhoun, Vince The Mind Res. Network/Univ. of New Mexico  
 Andreasen, Nancy Univ. of Iowa  
 Baum, Stefi Rochester Inst. of Tech.

10:15-10:30 SuAT3.6  
*An Automatic Segmentation Approach for Boundary Delineation of Corpus Callosum Based on Cell Competition*, pp. 5514-5517.

Lee, Shiou-Ping National Taiwan Univ.  
 Cheng, Jie-Zhi, Jie-Zhi National Taiwan Univ.  
 Chen, Chung-Ming National Taiwan Univ.  
 Tseng, Wen-Yih, Wen-Yih, Isaac National Taiwan Univ. Medical Coll.

**SuAT4 Room 11 & 12**  
**Neuron Modeling (Oral Session)**

09:00-09:15 SuAT4.1  
*Neural Computation in the Binocular VOR Circuit: A Theoretical Study*, pp. 5518-5521.

Khojasteh, Elham McGill Univ.  
 Galiana, Henrietta L. McGill Univ.

09:15-09:30 SuAT4.2  
*Functional Connectivity through Nonlinear Modeling: An Application to the Rat Hippocampus*, pp. 5522-5525.

Zanos, Theodoros Univ. of Southern California  
 Berger, Theodore Univ. of Southern California  
 Hampson, Robert Wake Forest Univ.  
 Deadwyler, Sam Wake Forest Univ.  
 Marmarelis, Vasilis Univ. of Southern California

09:30-09:45 SuAT4.3  
*A Functional Approach to Modeling M1 Single-Unit Activity Recorded in Three Primate Motor Control Studies*, pp. 5526-5530.

Krouchev, Nediako I. Univ. de Montreal  
 Kalaska, John F. Univ. de Montreal  
 Galiana, Henrietta L. McGill Univ.

09:45-10:00 SuAT4.4  
*Reconstructing Functional Neuronal Circuits Using Dynamic Bayesian Networks*, pp. 5531-5534.

Eldawlatly, Seif Michigan State Univ.  
 Zhou, Yang Michigan State Univ.  
 Jin, Rong Michigan State Univ.  
 Oweiss, Karim Michigan State Univ.

10:00-10:15 SuAT4.5  
*Control Theory-Based Regulation of Hippocampal CA1 Nonlinear Dynamics*, pp. 5535-5538.

Hsiao, Min-Chi Univ. of Southern California  
 Song, Dong Univ. of Southern California  
 Berger, Theodore Univ. of Southern California

10:15-10:30 SuAT4.6  
*Effects of Ih and IKLT on the Response of the Auditory Nerve to Electrical Stimulation in a Stochastic Hodgkin-Huxley Model*, pp. 5539-5542.

Negm, Mohamed McMaster Univ.  
 Bruce, Ian Christopher McMaster Univ.

**SuAT5 Room 1**  
**Automation in Anesthesia (Invited Session)**

Organizer: Nunes, Catarina S King's Coll. London

09:00-09:15 SuAT5.1  
*Automation in Anesthesia: Computer Controlled Propofol Infusion and Data Acquisition (I)*, pp. 5543-5547.

Bressan, Nadja Hospital Geral de Santo Antonio  
 Castro, Ana Hospital Geral de Santo Antonio  
 Braga, Carlos Inst. de Ciencias Biomedicas Abel Salazar  
 Lages, José Faculdade de Ciencias da Univ. do Porto  
 Silva, Nuno Inst. de Ciencias Biomedicas Abel Salazar  
 Portela, Paulo Faculdade de Ciencias da Univ. do Porto  
 Miranda, Pedro Faculdade de Ciencias da Univ. do Porto  
 Oliveira, Sérgio Faculdade de Ciencias da Univ. do Porto  
 Mendes, Joaquim Faculdade de Engenharia, UP  
 Amorim, Pedro Hospital Geral de Santo António  
 Nunes, Catarina S King's Coll. London

09:15-09:30 SuAT5.2  
*Theoretical Modelling to Understand the Neurotransmission Mechanism in the Gastrointestinal Tract (I)*, pp. 5548-5551.

Marcelli, Gianluca King's Coll. London  
 Patel, Bhavik King's Coll. London

09:30-09:45 SuAT5.3  
*Validation of the Index of Consciousness (IoC) During Sedation/Analgesia for Ultrasonographic Endoscopy (I)*, pp. 5552-5555.

Jensen, Erik Weber Morpheus Medical  
 Jospin, Mathieu Tech. Univ. of Catalonia (UPC)  
 Gambus, Pedro L Hospital Clinic, Univ. de Barcelona,  
 Vallverdu, Montserrat Tech. Univ. of Catalonia  
 Caminal, Pere Tech. Univ. of Catalonia (UPC)

09:45-10:00 SuAT5.4  
*Wheel/Tissue Force Interaction: A New Concept for Soft Tissue Diagnosis During MIS (I)*, pp. 5556-5559.

Zbyszewski, Dinusha Kings Coll. London  
 Liu, Hongbin Kings Coll. London  
 Puangmali, Pinyo King's Coll. London  
 Althoefer, Kaspar King's Coll. London  
 Nunes, Catarina S King's Coll. London  
 Seneviratne, Lakmal King's Coll. London  
 Challacombe, Benjamin Guys Hospital  
 Murphy, Declan Royal Melbourne Hospital  
 Dasgupta, Prokar Guys Hospital

10:00-10:15 SuAT5.5  
*Denoising of Diaphragmatic Electromyogram Signals for Respiratory Control and Diagnostic Purposes (I)*, pp. 5560-5563.

Alty, Steve King's Coll. London  
 Man, William Brompton and Harefield NHS Trust  
 Moxham, John King's Coll. London  
 Lee, Kalok King's Coll. London

10:15-10:30 SuAT5.6  
*On the Modeling of Drug Induced Respiratory Depression in the Non-Steady-State.*, pp. 5564-5568.

Caruso, Antonello ETH Zurich  
 Bouillon, Thomas Univ. Hospital Bern  
 Schumacher, Peter Univ. Hospital Bern  
 Morari, Manfred Swiss Federal Inst. of Tech.

**SuAT6 Room 2 & 3**  
**Elastographic Imaging (Oral Session)**

09:00-09:15 SuAT6.1  
*In Vivo Non-Invasive High Resolution MR-Based Method for the Determination of the Elastic Modulus of Arterial Vessels*, pp. 5569-5572.

Taviani, Valentina Univ. of Cambridge  
 Sutcliffe, Michael Univ. of Cambridge  
 Wong, Pauline Univ. of Cambridge  
 Li, Zhi-Yong Univ. of Cambridge  
 Young, Victoria Univ. of Cambridge  
 Graves, Martin Univ. of Cambridge  
 Gillard, Jonathan H. Univ. of Cambridge

09:15-09:30	SuAT6.2	10:00-10:15	SuAT7.5
<i>Characterization of the Viscosity and Elasticity in Soft Tissue Using Dynamic Finite Elements</i> , pp. 5573-5576.		<i>First 3D Ultrasound Scanning, Planning, and Execution of CT-Free Milling Interventions with a Surgical Robot</i> , pp. 5605-5610.	
Eskandari, Hani	Univ. of British Columbia	Stolka, Philipp J	Univ. of Bayreuth
Salcudean, Septimiu E.	Univ. of British Columbia	Tretbar, Steffen	-
09:30-09:45	SuAT6.3	Federspil, Philipp	-
<i>Statistical Finite Element Analysis</i> , pp. 5577-5580.		Henrich, Dominik	Univ. of Bayreuth
Khalaji, Iman	the Univ. of Western Ontario	10:15-10:30	SuAT7.6
Raahemifar, Kaamran	Ryerson Univ.	<i>Biologically Inspired Microtexturing: Investigation into the Surface Topography of Next-Generation Neurosurgical Probes</i> , pp. 5611-5614.	
Samani, Abbas	Univ. of Western Ontario	Frasson, Luca	Imperial Coll. London
09:45-10:00	SuAT6.4	Parittotokkapor, Tassanai	Imperial Coll. London
<i>Methods for the Estimation of Sub-Sample Motion of Digitized Ultrasound Echo Signals in Two Dimensions</i> , pp. 5581-5584.		Schneider, Andreas	STFC - Rutherford Appleton Lab.
Zahiri-Azar, Reza	Univ. of British Columbia	Davies, Brian	Imperial Coll. London
Goksel, Orcun	Univ. of British Columbia	Vincent, Julian F.V.	Univ. of Bath
Yao, Ta Shan	Univ. of British Columbia	Huq, S. Ejaz	STFC - Rutherford Appleton Lab.
Dehghan, Ehsan	Univ. of British Columbia	Degenaar, Patrick	Imperial Coll. London
Yan, Joseph	Univ. of British Columbia	Rodriguez, Fernando	IMPERIAL Coll. LONDON
Salcudean, Septimiu E.	Univ. of British Columbia		
10:00-10:15	SuAT6.5	<b>SuAT8</b>	Room 19 & 20
<i>Diagnosis Capability of Ultrasound B Mode, Elastography and Correlation Coefficient Images for Diagnosing Cystic Lesion – Feature Extraction for CAD System*</i> .		<b>Enabling Technologies for Diagnosis and Therapy (Oral Session)</b>	
Kottary, Kishore Kumar	Indian Inst. of Tech. Madras	09:00-09:15	SuAT8.1
Venketaraman, Jayashankar	Indian Inst. of Tech.	<i>Diamagnetically-Stabilized Levitation Control of an Intraluminal Magnetic Capsule</i> , pp. 5615-5619.	
S, Suresh	Mediscan Syestems	Lam, Michael	Univ. of Calgary
10:15-10:30	SuAT6.6	Mintchev, Martin	Univ. of Calgary
<i>Assessment of Myofascial Trigger Points (MTrPs): A New Application of Ultrasound Imaging and Vibration Sonoelastography</i> , pp. 5585-5588.		09:15-09:30	SuAT8.2
Sikdar, Siddhartha	George Mason Univ.	<i>Objective Assessment of Knee Osteoarthritis in Parachuters by Bioimpedance Spectroscopy</i> , pp. 5620-5623.	
Shah, Jay	National Inst. of Health Clinical Center	Neves, Eduardo Borba	Federal Univ. of Rio de Janeiro
Gilliams, Elizabeth	National Inst. of Health Clinical Center	Pino, Alexandre Visintainer	Federal Univ. of Rio de Janeiro
Gebreab, Tadesse	National Inst. of Health Clinical Center	Almeida, Renan	Coppe - Federal Univ. of Rio de Janeiro
Gerber, Lynn	George Mason Univ.	Souza, Marcio N.	Federal Univ. of Rio de Janeiro
<b>SuAT7</b>	Room 8 & 15	09:30-09:45	SuAT8.3
<b>Robotic Surgery (Oral Session)</b>		<i>Performance Verification of a Prototype Non-Invasive Intra-Oral Bone Growth Stimulator for Titanium Dental Implants</i> , pp. 5624-5627.	
09:00-09:15	SuAT7.1	Chan, Anthony Y.K.	British Columbia Inst. of Tech.
<i>Robotic System for Tumor Manipulation and Ultrasound Image Guidance During Breast Biopsy</i> , pp. 5589-5592.		Bergman, Harold Robert	Simpler Implant Systems Inc.
Mallapragada, Vishnu	Vanderbilt Univ.	09:45-10:00	SuAT8.4
Sarkar, Nilanjan	Vanderbilt Univ.	<i>Measurement and Evaluation of Finger Tapping Movements Using Magnetic Sensors</i> , pp. 5628-5631.	
Podder, Tarun	Thomas Jefferson Univ.	Shima, Keisuke	Hiroshima Univ.
09:15-09:30	SuAT7.2	Tsuji, Toshio	Hiroshima Univ.
<i>Conception and Design of an Automated Insertion Tool for Cochlear Implants</i> , pp. 5593-5596.		Kan, Eriko	Hiroshima Univ.
Hussong, Andreas	Leibniz Univ. Hannover	Kandori, Akihiko	Hitachi Ltd.
Rau, Thomas	Medical Univ. of Hannover	Yokoe, Masaru	Osaka Univ.
Eilers, Hubertus	Leibniz Univ. Hannover	Sakoda, Saburo	Osaka Univ.
Baron, Stephan	Leibniz Univ. Hannover	10:00-10:15	SuAT8.5
Heimann, Bodo	Leibniz Univ. Hannover	<i>Evaluating Automatically Generated Personalized Interfaces on an Ergometer, for People with Diverse Abilities</i> , pp. 5632-5635.	
Leinung, Martin	Medical Univ. of Hannover	Haines, Jason	Marquette Univ.
Lenarz, Thomas	Medical Univ. of Hannover	Winters, Jack	Marquette Univ.
Majdani, Omid	Medical Univ. of Hannover	10:15-10:30	SuAT8.6
09:30-09:45	SuAT7.3	<i>An Efficient BiCGstab Solved Impedance Method for Induced Field Evaluation with a Hyperthermia Applicator</i> , pp. 5636-5639.	
<i>TeleRobotic Fundamentals of Laparoscopic Surgery (FLS): Pilot Study</i> , pp. 5597-5600.		Wang, Hua	Univ. of Queensland
Lum, Mitchell	Univ. of Washington	Liu, Feng	The Univ. of Queensland
Rosen, Jacob	Univ. of Washington	Xia, Ling	Zhejiang Univ.
Lendvay, Thomas	Univ. of Washington	Li, Bing Keong Joe	The Univ. of Queensland
Wright, Andrew	Univ. of Washington	Crozier, Stuart	The Univ. of Queensland
Sinanan, Mika	Univ. of Washington		
Hannaford, Blake	Univ. of Washington		
09:45-10:00	SuAT7.4		
<i>Design of a Small Animal Biopsy Robot</i> , pp. 5601-5604.			
Bebek, Ozkan	Case Western Res. Univ.		
Hwang, Myun Joong	Case Western Res. Univ.		
Fei, Baowei	Case Western Res. Univ.		
Cavusoglu, M. Cenk	Case Western Res. Univ.		

SuAT9	Room 10
<b>Optical and Photonic Sensors and Systems (Oral Session)</b>	
09:00-09:15	SuAT9.1
<i>Design and Implementation of a Two Degree-Of-Freedom Micromanipulation Assessment System</i> , pp. 5640-5643.	
Tun Latt, Win	Nanyang Tech. Univ.
Sidarta, Ananda Ekaputera	Nanyang Tech. Univ.
Ong, Luke Ong Siang Chin	Nanyang Tech. Univ.
Veluvolu, Kalyana C.	Nanyang Tech. Univ.
Shee, Chengyap	Nanyang Tech. Univ.
Ang, Wei Tech	Nanyang Tech. Univ.
09:15-09:30	SuAT9.2
<i>Photoacoustic Depth Profiling of a Skin Model for Non-Invasive Glucose Measurement</i> , pp. 5644-5647.	
Wadamori, Naoki	Nagaoka Univ. of Tech.
Shinohara, Ryou	Nagaoka Univ. of Tech.
Ishihara, Yasutoshi	Nagaoka Univ. of Tech.
09:30-09:45	SuAT9.3
<i>A 12-Channel, Real-Time Near-Infrared Spectroscopy Instrument for Brain-Computer Interface Applications</i> , pp. 5648-5651.	
Soraghan, Christopher	NUI Maynooth
Matthews, Fiachra	National Univ. of Ireland, Maynooth
Markham, Charles	NUIM
Pearlmutter, Barak	National Univ. of Ireland, Maynooth
O'Neill, Ray	National Univ. of Ireland, Maynooth
Ward, Tomas	NUIM
09:45-10:00	SuAT9.4
<i>SU-8 Polymer Enclosed Microchannels with Interconnect and Nanohole Arrays As an Optical Detection Device for Biospecies</i> , pp. 5652-5655.	
Westwood, Stephanie M	Simon Fraser Univ.
Gray, Bonnie L.	Simon Fraser Univ.
Grist, Samantha	Simon Fraser Univ.
Huffman, Kyle	Simon Fraser Univ.
Jaffer, Seema	Simon Fraser Univ.
Kavanagh, Karen L	Simon Fraser Univ.
10:00-10:15	SuAT9.5
<i>Optical Instrument Design for Interrogation of Dermal-Implanted Luminescent Microparticle Sensors</i> , pp. 5656-5659.	
Long, Ruiqi	Texas A&M Univ.
McShane, Mike	Texas A&M Univ.
10:15-10:30	SuAT9.6
<i>Combining Multiple Microarray Studies Using Bootstrap Meta-Analysis</i> , pp. 5660-5663.	
Barrett, Andrea	Georgia Inst. of Tech.
Phan, John H.	Georgia Inst. of Tech.
Wang, May Dongmei	Georgia Tech. and Emory Univ.
<b>SuAT10</b>	<b>Room 18</b>
<b>Pacemakers, Defibrillators and Stimulation (Oral Session)</b>	
09:00-09:15	SuAT10.1
<i>Predicting Imminent Episodes of Ventricular Tachyarrhythmia – Retrospective Analysis of Short R-R Records from ICD</i> , pp. 5664-5667.	
Thong, Tran	Oregon Health & Science Univ.
09:15-09:30	SuAT10.2
<i>Usefulness of Monitoring Congestive Heart Failure by Multiple Impedance Vectors</i> , pp. 5668-5670.	
Panescu, Dorin	St. Jude Medical
Naware, Mihir	St Jude Medical, Inc.
Siou, Jeff	St Jude Medical, Inc.
Nabutovsky, Yelena	St Jude Medical, Inc.
Holmstrom, Nils	St Jude Medical, Inc.
Blomqvist, Andreas	St Jude Medical, Inc.
Shah, Riddhi	St Jude Medical, Inc.
Gutfinger, Dan	St. Jude Medical, Inc.
Khoury, Dirar	The Methodist Hospital Res. Inst.
09:30-09:45	SuAT10.3
<i>Theoretical Possibility of Ventricular Fibrillation During Use of TASER Neuromuscular Incapacitation Devices</i> , pp. 5671-5674.	
Panescu, Dorin	St. Jude Medical
Kroll, Mark	Univ. of Minnesota
Stratbucker, Robert	Stratbucker & Associates

09:45-10:00	SuAT10.4
<i>Coil Design Considerations for Deep-Brain Transcranial Magnetic Stimulation (dTMS)</i> , pp. 5675-5679.	
Deng, Zhi-De	Columbia Univ.
Peterchev, Angel V	Columbia Univ.
Lisanby, Sarah	Columbia Univ. / New York State Psychiatric Inst.
10:00-10:15	SuAT10.5
<i>The Effect of GSM-Like ELF Radiation on the Alpha Band of the Human Resting EEG</i> , pp. 5680-5683.	
Perentos, Nicholas	RMIT Univ.
Croft, Rodney J	Swinburne Univ.
McKenzie, Ray	RMIT Univ.
Cvetkovic, Dean	RMIT Univ.
Cosic, Irena	RMIT Univ.
10:15-10:30	SuAT10.6
<i>The Effect of Subcutaneous Fat Thickness on the Efficacy of Transcutaneous Electrical Stimulation</i> , pp. 5684-5687.	
Doheny, Emer	Univ. Coll. Dublin
Caulfield, Brian	UCD
Minogue, Conor M	Biomedical Res. Ltd
Lowery, Madeleine	Univ. Coll. Dublin
<b>SuAT11</b>	<b>Room 16</b>
<b>Microarray Analysis and Gene Signatures (Oral Session)</b>	
09:00-09:15	SuAT11.1
<i>Smoothing Blemished Gene Expression Microarray Data Via Missing Value Imputation</i> , pp. 5688-5691.	
Cai, Zhipeng	Univ. of Alberta
Lin, Guohui	Univ. of Alberta
Shi, Yi	Univ. of Alberta
09:15-09:30	SuAT11.2
<i>Minimum Number of Genes for Microarray Feature Selection</i> , pp. 5692-5695.	
Baralis, Elena	Pol. di Torino
Bruno, Giulia	Pol. di Torino
Fiori, Alessandro	Pol. di Torino
09:30-09:45	SuAT11.3
<i>Network Motif-Based Identification of Breast Cancer Susceptibility Genes</i> , pp. 5696-5699.	
Zhang, Yuji	Georgetown Univ.
Xuan, Jianhua	The Catholic Univ. of America
de los Reyes, Benildo	Univ. of Maine
Clarke, Robert	Lombardi Comprehensive Cancer Center, Georgetown Univ.
Ressom, Habtom	Georgetown Univ.
09:45-10:00	SuAT11.4
<i>Integration of Gene Expression and Gene Copy Number Variations with Independent Component Analysis</i> , pp. 5700-5703.	
Wang, Yu-Ping	Univ. of Missouri-Kansas City
10:00-10:15	SuAT11.5
<i>Toward a Measure of Classification Complexity in Gene Expression Signatures</i> , pp. 5704-5707.	
Kamath, Vidya	Univ. of South Florida
Yeatman, Timothy	H. Lee Moffitt Cancer Center & Res. Inst.
Eschrich, Steven	H. Lee Moffitt Cancer Center and Res. Inst.
10:15-10:30	SuAT11.6
<i>Adaptive Threshold to Detect Biologically Meaningful Changes in Microarray Data</i> , pp. 5708-5711.	
Fukuoka, Yutaka	Tokyo Medical and Dental Univ.
Inaoka, Hidenori	Kitasato Univ.
Noshiro, Makoto	Kitasato Univ.



<b>SuBT1</b>	Ballroom A
<b>Time Frequency Analysis (Oral Session)</b>	
11:00-11:15	SuBT1.1
<i>Analysis of Spontaneous MEG Activity in Alzheimer's Disease Using Time-Frequency Parameters</i> , pp. 5712-5715.	
Poza, Jesús	Univ. of Valladolid
Hornero, Roberto	Univ. of Valladolid
Escudero, Javier	Univ. of Valladolid - CIF Q4718001C
Fernandez, Alberto	Univ. Complutense de Madrid
Gomez, Carlos	Univ. of Valladolid
11:15-11:30	SuBT1.2
<i>Effects of Mental Fatigue on 8-13Hz Brain Activity in People with Spinal Cord Injury</i> , pp. 5716-5719.	
Wijesuriya, Nirupama Samanmalie	Univ. of Tech. Sydney (UTS)
Tran, Yvonne	Univ. of Tech. Sydney
Thuraisingham, Ranjit Arulnayagam	Univ. of Tech. Sydney
Nguyen, Hung T.	Univ. of Tech. Sydney
Craig, Ashley	Univ. of Tech. Sydney
11:30-11:45	SuBT1.3
<i>A Watermarking Algorithm for Polysomnography Data</i> , pp. 5720-5723.	
Jamasebi, Reza	CWRU
Johnson, Nathan	CWRU
Kaffashi, Farhad	CWRU
Redline, Susan	Rainbow Babies and Childrens Hospital
Loparo, Kenneth	Case Western Res. Univ.
11:45-12:00	SuBT1.4
<i>Identifying Rhythms of Subthalamic Neural Oscillations in Time-Frequency Domain</i> , pp. 5724-5728.	
Wang, Shouyan	Univ. of Southampton
Green, Alexander L	Univ. of Oxford
Stein, John F	Univ. of Oxford
Aziz, Tipu Z	Univ. of Oxford
Liu, Xuguang	Imperial Coll. London
12:00-12:15	SuBT1.5
<i>Harmonic Golay Coded Excitation Based on Harmonic Quadrature Demodulation Method</i> , pp. 5729-5732.	
Kim, Sang-Min	Sogang Univ.
Song, Jae-Hee	Sogang Univ.
Song, Tai-Kyong	Sogang Univ.
12:15-12:30	SuBT1.6
<i>Spectral Validation Improves Frequency Tracking Obtained by Time-Frequency Analysis During Atrial Fibrillation</i> , pp. 5733-5736.	
Corino, Valentina	Pol. di Milano
Mainardi, Luca	Pol. di Milano
Stridh, Martin	Lund Univ.
Sornmo, Leif	Lund Univ.
<b>SuBT2</b>	Ballroom B
<b>Biological and Biochemical Sensors (Oral Session)</b>	
11:00-11:15	SuBT2.1
<i>An Impulse Based Sensor for Medical Sensing Applications</i> , pp. 5737-5740.	
Dinh, Anh	Univ. of Saskatchewan
11:15-11:30	SuBT2.2
<i>Wearable Technology for Bio-Chemical Analysis of Body Fluids During Exercise</i> , pp. 5741-5744.	
Morris, Deirdre	Dublin City Univ.
Schazmann, Ben	Dublin City Univ.
Wu, Yanzhe	Dublin City Univ.
Coyle, Shirley	DCU
Brady, Sarah	Dublin City Univ.
Fay, Cormac	Dublin City Univ.
Hayes, Jer	Dublin City Univ.
Lau, King Tong	Dublin City Univ.
Wallace, Gordon	Univ. of Wollongong
Diamond, Dermot	Dublin City Univ.

11:30-11:45	SuBT2.3
<i>Feedback Control of a DNA Molecule Tethered in a Nanopore to Repeatedly Probe DNA-Binding Enzymes</i> , pp. 5745-5748.	
Wilson, Noah A.	Univ. of California, Santa Cruz
Abu-Shumays, Robin	Univ. of California, Santa Cruz
Lieberman, Kate	Univ. of California
Akeson, Mark	Univ. of California, Santa Cruz
Dunbar, William B.	Univ. of California, Santa Cruz
11:45-12:00	SuBT2.4
<i>Flexible Glucose Sensor Utilizing Multilayer PDMS Process</i> , pp. 5749-5752.	
Patel, Jasbir N.	Simon Fraser Univ.
Gray, Bonnie L.	Simon Fraser Univ.
Kaminska, Bozena	Simon Fraser Univ.
Gates, Byron	Simon Fraser Univ.
12:00-12:15	SuBT2.5
<i>Simultaneous Measurement of Nonlinearity and Electrochemical Impedance for Protein Sensing Using Two-Tone Excitation</i> , pp. 5753-5756.	
Daniels, Jonathan S.	Stanford Univ.
Anderson, Erik	Stanford Univ.
Lee, Thomas H.	Stanford Univ.
Pourmand, Nader	Univ. of California, Santa Cruz
12:15-12:30	SuBT2.6
<i>Surface Plasmon Resonance Biochip Based on ZnO Thin Film for Nitric Oxide Sensing</i> , pp. 5757-5760.	
Feng, Wei-Yi	National Taiwan Univ.
Lin, Chii-Wann	National Taiwan Univ.
Lu, Hui-Hsin	National Taiwan Univ.
Chiu, Nan-Fu	National Taiwan Univ.
<b>SuBT3</b>	Ballroom C
<b>Design and Evaluation of Imaging Experiments (Oral Session)</b>	
11:00-11:15	SuBT3.1
<i>High Resolution Reduced-FOV Diffusion Tensor Imaging of the Human Pons with Multi-Shot Variable Density Spiral at 3T</i> , pp. 5761-5764.	
Karampinos, Dimitrios	Univ. of Illinois at Urbana-Champaign
Van, Anh	Univ. of Illinois at Urbana-Champaign
Olivero, William	Univ. of Illinois UC
Georgiadis, John	Univ. of Illinois at Urbana-Champaign
Sutton, Brad	Univ. of Illinois at Urbana-Champaign
11:15-11:30	SuBT3.2
<i>Evaluation Tests for Eye Tracking Systems</i> , pp. 5765-5768.	
Figueira, Márcio V	Pontifical Catholic Univ. of Rio Grande do Sul
Azevedo, Dario F.G. de	Pontificia Univ. Católica PUCRS
Russomano, Thais	Pontificia Univ. Católica do Rio Grande do Sul
Finger Lilienthal, Ramón	Pontificia Univ. Católica do Rio Grande do Sul
11:30-11:45	SuBT3.3
<i>Magnetic Resonance Described in the Excitation Dependent Rotating Frame of Reference</i> , pp. 5769-5773.	
Tahayori, Bahman	Univ. of Melbourne
Johnston, Leigh A.	Univ. of Melbourne
Mareels, Iven	Melbourne Univ. Australia
Farrell, Peter Mark	The Univ. of Melbourne
11:45-12:00	SuBT3.4
<i>Minimal-SAR RF Pulse Optimization for Parallel Transmission in MRI</i> , pp. 5774-5777.	
Liu, Yinan	Texas A&M Univ.
Ji, Jim Xiuquan	Texas A&M Univ.
12:00-12:15	SuBT3.5
<i>Is Undiagnosed Synaesthesia a Confounding Factor in the Interpretation of MRI Images?</i> , pp. 5778-5781.	
Zayed, Nourhan	Univ. of Calgary
Goodyear, Brad	Univ. of Calgary
Smith, Micheal	Univ. of Calgary
12:15-12:30	SuBT3.6
<i>Multi-Divergent-Beam Stationary Cardiac SPECT</i> , pp. 5782-5785.	
Zeng, Gengsheng Lawrence	Univ. of Utah

**SuBT4** Room 11 & 12  
**Implantable Micro-Nano Systems (Oral Session)**

11:00-11:15 SuBT4.1  
*Electrical Endogenous Heating of Insect Muscles for Flight Control*, pp. 5786-5789.

Bozkurt, Alper Cornell Univ.  
Lal, Amit Cornell Univ.  
Gilmour, Robert Cornell Univ.

11:15-11:30 SuBT4.2  
*Intraocular Epiretinal Prosthesis to Restore Vision in Blind Humans*, pp. 5790-5793.

Mokwa, Wilfried RWTH Aachen Univ.  
Goertz, Michael Fraunhofer Inst. of Microelectronic Systems and Circuits

Koch, Christian RWTH Univ.  
Krisch, Ingo Fraunhofer Inst. of Microelectronic Circuits and Systems

Trieu, Hoc-Khiem Fraunhofer Inst. of Microelectronic Circuits and Systems

Walter, Peter Univ. Clinics Rwth Aachen Univ.

11:30-11:45 SuBT4.3  
*Cortical Recording with Polypyrrole Microwire Electrodes*, pp. 5794-5797.

Bae, Woong Massachusetts Inst. of Tech.  
Ruddy, Bryan Massachusetts Inst. of Tech.  
Richardson, Andrew Harvard Medical School and MIT  
Hunter, Ian Massachusetts Inst. of Tech.  
Bizzi, Emilio Massachusetts Inst. of Tech.

11:45-12:00 SuBT4.4  
*A 3D Slim-Base Probe Array for in Vivo Recorded Neuron Activity*, pp. 5798-5801.

Aarts, Arno Catholic Univ. of Leuven, Inter University Microelectronics Cen IMEC  
Neves, Herc Hungarian Acad. of Sciences  
Ulbert, István Hungarian Acad. of Sciences  
Wittner, Lucia Hungarian Acad. of Sciences  
Grand, László Hungarian Acad. of Sciences  
Fontes, Marcelo Catholic Univ. of Leuven  
Herwik, Stanislav Univ. of Freiburg  
Kisban, Sebastian Aron Univ. of Freiburg  
Paul, Oliver Univ. of Freiburg  
Ruther, Patrick Univ. of Freiburg  
Puers, Robert Catholic Univ. of Leuven  
Van Hoof, Chris IMEC

12:00-12:15 SuBT4.5  
*A Photosensitive Polyimide Based Method for an Easy Fabrication of Multichannel Neural Electrodes*, pp. 5802-5805.

Kato, Yasuhiro, X Nippon Telegraph and Telephone Corp.  
Maki, Katuhiro Nippon Telegraph and Telephone Corp.  
Furukawa, Shigeto Nippon Telegraph and Telephone Corp.  
Kashino, Makio Nippon Telegraph and Telephone Corp.

12:15-12:30 SuBT4.6  
*A Compact Architecture for Three-Dimensional Neural Microelectrode Arrays*, pp. 5806-5809.

Perlin, Gayatri, E. Univ. of Michigan  
Wise, Kensall Univ. of Michigan, Ann Arbor

**SuBT5** Room 1  
**Closed-Loop Control in Anesthesia (Invited Session)**

Organizer: Nunes, Catarina S King's Coll. London

11:00-11:15 SuBT5.1  
*Hypnotic Administration for Anesthesia Using Sliding-Mode Control (I)*, pp. 5810-5813.

Castro, Ana Hospital Geral de Santo Antonio  
Nunes, Catarina S King's Coll. London  
Amorim, Pedro Hospital Geral de Santo António  
Gomes de Almeida, Fernando Faculdade de Engenharia da Univ. do Porto

11:15-11:30 SuBT5.2  
*A Neuro-Fuzzy Approach for Predicting Hemodynamic Responses During Anesthesia (I)*, pp. 5814-5817.

Nunes, Catarina S King's Coll. London  
Amorim, Pedro Hospital Geral de Santo António

11:30-11:45 SuBT5.3  
*Target Controlled Infusion for Kids: Trials and Simulations*, pp. 5818-5821.

Mehta, Disha Univ. of British Columbia  
McCormack, Jon The Univ. of British Columbia  
Fung, Parry Univ. of British Columbia  
Dumont, Guy Univ. of British Columbia  
Ansermino, J. Mark British Columbia's Children's Hospital

11:45-12:00 SuBT5.4  
*Model Predictive Control of Depth of Anaesthesia: Guidelines for Controller Configuration*, pp. 5822-5825.

Cardoso, Nicolas INESC-ID  
Lemos, João M. INESC-ID

12:00-12:15 SuBT5.5  
*Personalized Neuromuscular Blockade through Control: Clinical and Technical Evaluation (I)*, pp. 5826-5829.

Silva, Margarida M. Faculdade de Ciências - Univ. do Porto  
Mendonça, Teresa Faculdade de Ciências - Univ. do Porto  
Esteves, Simão Hospital Geral de Santo António

**SuBT6** Room 2 & 3  
**Electrical Impedance Imaging (Oral Session)**

11:00-11:15 SuBT6.1  
*Electrical Conductivity Imaging of Lower Extremities Using MREIT: Postmortem Swine and in Vivo Human Experiments*, pp. 5830-5833.

Woo, Eung Je Kyung Hee Univ.  
Kim, Hyung Joong Kyung Hee Univ.  
Minhas, Atul S. Kyung Hee Univ.  
Kim, Young Tae Kyung Hee Univ.  
Jeong, Woo Chul Kyung Hee Univ.

11:15-11:30 SuBT6.2  
*Acoustic Vector Tomography and Its Application to Magnetoacoustic Tomography with Magnetic Induction (MAT-MI)*, pp. 5834-5836.

Li, Xu Univ. of Minnesota  
Xia, Rongmin Methodist hospital  
He, Bin Univ. of Minnesota

11:30-11:45 SuBT6.3  
*Robust Approach to Skin Location Estimation for Radar-Based Breast Imaging Systems*, pp. 5837-5841.

Williams, Trevor Univ. of Calgary  
Sill, Jeff Univ. of Calgary  
Fear, Elise C. Univ. of Calgary

11:45-12:00 SuBT6.4  
*Blur Normalization of a Spatially-Variant Image Reconstruction Problem: A Study of Electrical Impedance Tomography Using a Hemiaray Electrode Configuration\**.

Oh, Sungho Univ. of Florida  
Tang, Te Univ. of Florida  
Tucker, Aaron Univ. of Florida  
Sadleir, Rosalind Univ. of Florida

12:00-12:15 SuBT6.5  
*Measurement of Current Density Vectors in a Live Pig for the Study of Human Electro-Muscular Incapacitation Devices*, pp. 5842-5845.

DeMonte, Tim P. Field Metrics Inc.  
Gao, Jia-Hong Univ. of Chicago  
Wang, Dinghui Univ. of Toronto  
Ma, Angela W. Univ. of Toronto  
Joy, Michael L. Univ. of Toronto

SuBT7	Room 8 & 15
<b>Telehealth (Oral Session)</b>	
11:00-11:15	SuBT7.1
<i>Nuadu Concept for Personal Management of Lifestyle Related Health Risks</i> , pp. 5846-5850.	
Mattila, Elina	VTT
Korhonen, Ilkka	VTT
Lappalainen, Raimo	Univ. of Jyväskylä
Ahtinen, Aino	Nokia Res. Center
Hopsu, Leila	Finnish Inst. of Occupational Health
Leino, Timo	Finnish Inst. of Occupational Health
11:15-11:30	SuBT7.2
<i>Design Evaluation of a Home-Based Telecare System for Chronic Heart Failure Patients</i> , pp. 5851-5854.	
Gund, Anna	Chalmers Univ. of Tech.
Ekman, Inger	The Sahlgrenska Acad. at Gothenburg Univ.
Lindecrantz, Kaj	Univ. Coll. of Borås
Sjöqvist, Bengt Arne	Chalmers Univ. of Tech.
Staafl, Eva Lina	Chalmers Univ. of Tech.
Thornesköld, Niklas	Chalmers Univ. of Tech.
11:30-11:45	SuBT7.3
<i>OURSES : A Telemedicine Project for Rural Areas in France. Telemonitoring of Elderly People</i> , pp. 5855-5858.	
Prieto Guerrero, Alfonso	Univ. Autonoma Metropolitana
Mailhes, Corinne	Univ. of Toulouse
Castanie, Francis	TESA
11:45-12:00	SuBT7.4
<i>Experiences with Fetal Phonocardiographic Telemonitoring and Future Possibilities</i> , pp. 5859-5862.	
Kosa, Andre	Peter Pazmany Catholic Univ.
Horvath, Csaba	Budapest Univ. of Tech. & Ec.
Kersner, Noemi	Peter Pazmany Catholic Univ.
Kadar, Krisztina	Gottsegen Gy. National Inst. of Cardiology
Kovacs, Ferenc	Pazmany Peter Catholic Univ.
Torok, Miklos	OGYIK State Medical Centre
Hosszu, Gabor	Budapest Univ. of Tech. and Ec.
12:00-12:15	SuBT7.5
<i>Early Experiences of the Use of Remote Patient Monitoring for the Long Term Management of Chronic Disease</i> , pp. 5863-5866.	
Clarke, Malcolm	Brunel Univ.
Jones, Russell	Brunel Univ.
Furse, Joanna	Brunel Univ.
<b>SuBT8</b>	<b>Room 19 &amp; 20</b>
<b>Towards Truly Wearable Electroencephalography (Invited Session)</b>	
Organizer: Rodriguez-Villegas, Esther	Imperial Coll. London
11:00-11:15	SuBT8.1
<i>Wearable EEG: What Is It, Why Is It Needed and What Does It Entail? (I)</i> , pp. 5867-5870.	
Casson, Alexander James	Imperial Coll. London
Smith, Shelagh	National Hospital for Neurology and Neurosurgery
Duncan, John S	National Hospital for Neurology and Neurosurgery
Rodriguez-Villegas, Esther	Imperial Coll. London
11:15-11:30	SuBT8.2
<i>Real Time Workload Classification from an Ambulatory Wireless EEG System Using Hybrid EEG Electrodes (I)</i> , pp. 5871-5875.	
Matthews, Robert	Quantum Applied Sci & Res. Inc
Turner, Peter	Quantum Applied Science & Res. Inc.
McDonald, Neil	Quantum Applied Science & Res. Inc.
Ermolaev, Konstantine	Quantum Applied Science and Res.
McManus, Tobin	Quantum Applied Science and Res.
Shelby, Richard	Quantum Applied Science and Res.
Steindorf, Marty	Quantum Applied Science & Res. Inc.
11:30-11:45	SuBT8.3
<i>Generic vs Custom; Analogue vs Digital: On the Implementation of an Online EEG Signal Processing Algorithm (I)</i> , pp. 5876-5880.	
Casson, Alexander James	Imperial Coll. London
Rodriguez-Villegas, Esther	Imperial Coll. London

11:45-12:00	SuBT8.4
<i>A 1.2V 1.5 Microwatts 4kS/s 10b Pipelined ADC for Electroencephalogram Application (I)</i> , pp. 5881-5884.	
Garcia Gonzalez, Jose Manuel	Micronas GmbH
Muñoz Chavero, Fernando	Univ. de Sevilla
Carvajal, Ramon G.	Univ. of Sevilla
Lopez-Morillo, Enrique	Univ. of Sevilla
Aguilar-Pelaez, Eduardo	Imperial Coll. London
12:00-12:15	SuBT8.5
<i>On Data Reduction in EEG Monitoring: Comparison between Ambulatory and Non-Ambulatory Recordings (I)</i> , pp. 5885-5888.	
Casson, Alexander James	Imperial Coll. London
Rodriguez-Villegas, Esther	Imperial Coll. London
12:15-12:30	SuBT8.6
<i>Wearable &amp; Wireless Brain-Computer Interface and Its Applications (I)*.</i>	
Lin, Chin-Teng	National Chiao-Tung Univ.
Ko, Li-Wei	National Chiao-Tung Univ.
Chiou, Jin-Chern	National Chiao-Tung Univ.
Huang, Ruey-Song	Univ. of California
Duann, Jeng-Ren	Univ. of California San Diego
Jung, Tzyy-Ping	Univ. of California San Diego

SuBT9	Room 10
<b>Multi-Modal Medical Image Analysis and Visualization (Invited Session)</b>	
Organizer: Basu, Anup	Univ. of Alberta
11:00-11:15	SuBT9.1
<i>Measuring and Evaluating Ground Truth for Boundary Detection in Medical Images (I)</i> , pp. 5889-5892.	
Cheng, Irene	Univ. of Alberta
Flores-Mir, Carlos	Univ. of Alberta
Major, Paul	Univ. of Alberta
Basu, Anup	Univ. of Alberta
11:15-11:30	SuBT9.2
<i>4D Alignment of Bidirectional Dynamic MRI Sequences (I)</i> , pp. 5893-5896.	
Singh, Meghna	Univ. of Alberta
Cheng, Irene	Univ. of Alberta
Mandal, Mrinal	Univ. of Alberta
11:30-11:45	SuBT9.3
<i>Effects of Texture and Color on the Perception of Medical Images (I)</i> , pp. 5897-5900.	
Cheng, Irene	Univ. of Alberta
Badalov, Alexy	Univ. of Alberta
Silva, Claudio T	Univ. of Utah
Basu, Anup	Univ. of Alberta
11:45-12:00	SuBT9.4
<i>Effects of Vibratory Actuation on Endoscopic Capsule Vision (I)</i> , pp. 5901-5904.	
Zabulis, Xenophon	Foundation for Res. and Tech. - Hellas (FORTH)
Sfakiotakis, Michael	Foundation for Res. & Tech. - Hellas
Tsakiris, Dimitris	Foundation for Res. and Tech. - Hellas (FORTH)

SuBT10	Room 18
<b>Intellectual Property for Biomedical Engineers (Minisymposium)</b>	
Organizer: Mak, Benjamin	Ridout & Maybee LLP
11:00-12:30	SuBT10.1
<i>Intellectual Property for Biomedical Engineers (I)</i> , pp. 5905-5905.	
Mak, Benjamin	Ridout & Maybee LLP
Klee, Maurice	IEEE Engineering in Medicine & Biology Magazine
Tullett, Rodney	Christensen O'Connor Johnson Kindness

SuBT11	Room 16
<b>Models and Simulations of the Cardiovascular System (Oral Session)</b>	
11:00-11:15	SuBT11.1
<i>Assessment of the Effects of Increasing Levels of Physiological Realism in the Computational Fluid Dynamics Analyses of Implanted Coronary Stents</i> , pp. 5906-5909.	
Murphy, Jonathan	Dublin Inst. of Tech.
Boyle, Fergal	Dublin Inst. of Tech.

11:15-11:30 SuBT11.2  
*Efficient Solutions of Cardiac Membrane Models Using Novel Unsupervised Clustering Algorithm*, pp. 5910-5913.  
Hussan, Jagir R. Univ. of Auckland  
Trew, Mark L. Univ. of Auckland  
Hunter, Peter Univ. of Auckland

11:30-11:45 SuBT11.3  
*Models for Mechanistic Investigations of Pacing Arrhythmogenesis and Cardiac Tissue Structure*, pp. 5914-5917.  
Engelman, Zoar J. Univ. of Auckland  
Trew, Mark L. Univ. of Auckland  
Smaill, Bruce Univ. of Auckland

11:45-12:00 SuBT11.4  
*A Non-Invasive Assessment for Endothelial Function of Small Animals*, pp. 5918-5921.  
Wu, Hsien-Tsai National Dong Hwa Univ.  
Yang, Chun-Cheng National Dong Hwa Univ.  
Liu, An-Bang Buddhist Tzu Chi General Hospital  
Wang, Chien-Hsing Buddhist Tzu-Chi General Hospital

12:00-12:15 SuBT11.5  
*An Efficient Computational Method for Simulation of the Two-Dimensional Electrophysiological Waves*, pp. 5922-5925.  
Belhamadia, Youssef Univ. of Alberta

12:15-12:30 SuBT11.6  
*Reduced Conduction Reserve of the Propagating Cardiac Impulse in the Diabetic Rat Heart: A Model Study*, pp. 5926-5929.  
Ghaly, Haisam Univ. of Calgary  
Boyle, Patrick M. Univ. of Calgary  
Vigmond, Edward Univ. of Calgary  
Nygren, Anders Univ. of Calgary