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	<i>Boschmann, Alexander* (University of Paderborn); Dosen, Strahinja (University Medical Center, UMG, Goettingen); Werner, Andreas (University of Paderborn); Raies, Ali (Paderborn University); Farina, Dario (Bernstein Center for Computational Neuroscience, University Medic)</i>	
17:45-18:00		WeCT2.5
	Quantitative Comparison of Muscle Thickness between Young Male and Female Subjects using Ultrasonography	284-287
	<i>Zhou, Yongjin (Shenzhen University); Wei, Qian-Yue (The Shenzhen University); Yang, Xiaojuan (Shenzhen University, Shenzhen); Xiang, Jianghuai (Shenzhen University); Xian, Zhi-En (The Shenzhen University); Li, Yue (The Shenzhen University); Yang, Wanzhang (The Sixth People's Hospital of Shenzhen City); Dan, Guo (Shenzhen University, Shenzhen); Xiang, Yun* (The Sixth People's Hospital of Shenzhen City)</i>	
18:00-18:15		WeCT2.6
	Automatic Erp Classification in Eeg Recordings from Task-Related Independent Components	288-291
	<i>Zakeri, Zohreh* (University of Birmingham); Haji Samadi, Mohammad Reza (University of Birmingham); Cooke, Neil (University of Birmingham); Jancovic, Peter (Birmingham University)</i>	

Thursday, 25 February 2016

10:30-10:45		ThAT1.1
	Biclustering for ssDNA Aptamer Motif Prototypes	292-295
	<i>Moore, Erin J.* (West Virginia University); Bourlai, Thirimachos (West Virginia University)</i>	
10:45-11:00		ThAT1.2
	Comparison of Some Machine Learning and Statistical Algorithms for Classification and Prediction of Human Cancer Type	296-299
	<i>Shamsaei, Behrouz* (The University of Tennessee, Chattanooga); Gao, Cuilan Lani (Department of Mathematics, the University of Tennessee at Chatta)</i>	
11:00-11:15		ThAT1.3
	Splice Sites Prediction of Human Genome using AdaBoost	300-303
	<i>Pashaei, Elham (Yildiz Technical University); Ozen, Mustafa (Biruni University); Aydin, Nizamettin* (Yildiz Technical University)</i>	

11:15-11:30 ThAT1.4
GPU Acceleration for Bayesian Control of Markovian Genetic Regulatory Networks 304-307
*Zhou, He** (Texas A&M Univ.); *Hu, Jiang* (Texas A&M Univ.); *Khatri, Sunil* (Texas A&M Univ.); *Liu, Frank* (IBM Research); *Sze, Cliff Chin Ngai* (IBM); *Rezaei Yousefi, Mohammadmahdi* (The Ohio State Univ.)

11:30-11:45 ThAT1.5
Gene Selection and Classification Approach for Microarray Data based on Random Forest Ranking and BBHA 308-311
Pashaei, Elnaz (Yildiz Technical University); *Ozen, Mustafa* (Biruni University); *Aydin, Nizamettin** (Yildiz Technical University)

11:45-12:00 ThAT1.6
Integrating Information on Genomics, Transcriptomics, Proteomics, and Metabolomics into Biosimulations for Individualized Personalized Medicine 312-315
*Phelix, Clyde** (The University of Texas at San Antonio; AL Phahelix Biometrics.); *Dugan, Jason* (The University of Texas at San Antonio)

ThAT2: 10:30-12:00 Mesquite 3
Thu1.2 Health Informatics-1 (Regular Session)

10:30-10:45 ThAT2.1
A Meta-Modeling Technique for Analyzing, Designing and Adapting Healthcare Processes: A Process-Deliverable Perspective 316-319
*Blijleven, Vincent** (Nyenrode Business Universiteit); *Jaspers, Monique* (Academisch Medisch Centrum); *Wetzels, Marijntje* (Academisch Medisch Centrum); *Koelemeijer, Kitty* (Nyenrode Business Universiteit); *Mehrsai, Afshin* (Lean Institute, Nyenrode Business Universiteit)

10:45-11:00 ThAT2.2
From Data to Processes – Use of Modeling and Simulation in Healthcare 320-323
*Gehlot, Vijay** (Villanova University); *Mathew, Liji* (Villanova University); *Sloane, Elliot B.* (Center for Healthcare Information Research & Policy (CHIRP))

11:00-11:15 ThAT2.3
Mining Disease Sequential Risk Patterns from Nationwide Clinical Databases for Early Assessment of Chronic Obstructive Pulmonary Disease 324-327
Cheng, Yi-Ting (Institute of Medical Informatics, National Cheng Kung University); *Lin, Yu-Feng* (Department of Computer Science and Information Engineering, Nat); *Chiang, Kuo-Hwa* (Division of Chest Medicine, Department of Internal Medicine, Chi); *Tseng, Vincent S.** (Department of Computer Science, National Chao Tung University, H)

11:15-11:30 ThAT2.4
Predicting Demand for Hospital Capacity Planning 328-331
*Boyle, Justin** (CSIRO); *Ireland, Derek* (CSIRO ICT Centre); *Webster, Fiona* (Austin Health); *O'Sullivan, Kim* (Austin Health)

11:30-11:45 ThAT2.5
Personalized Mortality Prediction for the Critically Ill using a Patient Similarity Metric and Bagging 332-335
*Lee, Joon** (University of Waterloo)

11:45-12:00 ThAT2.6
In-Hospital Mortality and the "Weekend Effect": Can We Find the Underlying Causes? 336-339
*Good, Norm** (CSIRO Australian e-Health Research Centre); *Khanna, Sankalp* (CSIRO Australian e-Health Research Centre); *Boyle, Justin* (CSIRO)

ThAT3: 10:30-12:00 Mesquite 4
Intelligent Algorithms for Personalised CVD Management (Special Session) 4q2my

10:30-10:45 ThAT3.1
Strategies for Prediction of Cardio-Vascular Status without Explicit Modeling 340-343
Rocha, Teresa (Inst Superior de Eng de Coimbra); *Paredes, Simao* (Instituto Politécnico de Coimbra); *de Carvalho, Paulo* (University of Coimbra - NIF); *Henriques, Jorge** (University of Coimbra - NIF)

10:45-11:00	ThAT3.2
Strategies for Personalized Risk Assessment for CVD Management	344-347
<i>Paredes, Simao (Instituto Politécnico de Coimbra); Mendes, Diana (Universidade de Coimbra); Rocha, Teresa (Inst Superior de Eng de Coimbra); de Carvalho, Paulo (University of Coimbra - NIF); Henriques, Jorge* (University of Coimbra - NIF); Morais, João (Hospital de Santo André, Leiria)</i>	
11:00-11:15	ThAT3.3
Interactive Pattern Recognition in Cardiovascular Diseases Management. A Process Mining Approach	348-351
<i>Fernandez-Llatas, Carlos* (Universidad Politecnica de Valencia); Bayo, Jose Luis (ITACA Association); Martínez-Romero, Álvaro (Instituto ITACA); Benedí, Jose Miguel (ITI - Universidad Politecnica de Valencia); Traver, Vicente (Institute ITACA)</i>	
11:15-11:30	ThAT3.4
Identification of CVD Risk Parameters during Sleep	352-355
<i>Bianchi, Anna Maria* (Politecnico di Milano); Henriques, Jorge (University of Coimbra - NIF); Italiano Monteiro, Clara (Cardiopulmonary Physiotherapy Laboratory, Federal University of); Borghi Silva, Audrey (Universidade Federal de Sao Carlos); de Carvalho, Paulo (University of Coimbra - NIF); Migliorini, Matteo (Politecnico di Milano); Rocha, Teresa (Inst Superior de Eng de Coimbra); Paredes, Simao (Instituto Politécnico de Coimbra); Trimer, Vítor (Cardiopulmonary Physiotherapy Laboratory, Federal University of); Cabiddu, Ramona (Cardiopulmonary Physiotherapy Laboratory, Federal University of)</i>	
11:30-11:45	ThAT3.5
Challenges in Personalized Systems for Personal Health Care	356-359
<i>Fernandez-Llatas, Carlos* (Universidad Politecnica de Valencia); Martínez-Romero, Álvaro (Instituto ITACA); Bianchi, Anna Maria (Politecnico di Milano); Henriques, Jorge (University of Coimbra - NIF); de Carvalho, Paulo (University of Coimbra - NIF); Traver, Vicente (Institute ITACA)</i>	

ThB1T1: 13:30-14:15	Mesquite 2
Thu2.1 Bioinformatics-2 (Regular Session)	

13:30-13:45	ThB1T1.1
Gene-Based Pathway Enrichment Analysis of Oral Squamous Cell Carcinoma Patients	360-363
<i>Kourou, Konstantina (Unit of Biological Applications and Technology, University of Io); Papaloukas, Costas (University of Ioannina); Fotiadis, Dimitrios I.* (University of Ioannina)</i>	
13:45-14:00	ThB1T1.2
When Discriminative K-Means Meets Grassmann Manifold: Disease Gene Identification via a General Multi-View Clustering Method	364-367
<i>Li, Danping (Houston Methodist Research Institute); Wang, Lei* (Houston Methodist Research Institute); Xue, Zhong (Houston Methodist Research Institute, Department of Systems Medi); Wong, Stephen T.C. (The Methodist Hospital Research Institute, Weill Cornell Medical)</i>	
14:00-14:15	ThB1T1.3
DrugMoaMiner: A Computational Tool for Mechanism of Action Discovery and Personalized Drug Sensitivity Prediction	368-371
<i>Li, Fuhai (Weill Cornell University - The Methodist Hospital Research Insti); Wang, Lin (Houston Methodist Research Institute); Ren, Kong (Houston Methodist Research Institute); Sheng, Jianting (Houston Methodist Research Institute); Cao, Huojun (Houston Methodist Research Institute); Mancuso, James (Houston Methodist Research Institute, Weill Cornell Medical College); Xia, Xiaofeng (Houston Methodist Research Institute); Stephan, Clifford (Texas A&M Institute of Biosciences and Technology); Wong, Stephen* (Houston Methodist Hospital and Houston Methodist Research Instit)</i>	

14:15-14:30		ThB2T2.1
	A Smartphone App Framework for Segmented Cancer Care Coordination	372-375
	<i>He, Tiancheng* (Methodist Hospital Research Institute, Weill Cornell Medical College); Ogunti, Richard (Houston Methodist Research Institute, Weill Cornell Medical College); Puppala, Mamta (Houston Methodist Research Institute, Weill Cornell Medical College); Chen, Shenyi (Houston Methodist Research Institute, Weill Cornell Medical College); Yu, Xiaohui (Houston Methodist Research Institute, Weill Cornell Medical College); Mancuso, James (Houston Methodist Research Institute, Weill Cornell Medical College); Wong, Stephen T.C. (The Methodist Hospital Research Institute, Weill Cornell Medical)</i>	
14:30-14:45		ThB2T2.2
	Model Checking Cancer Automata	376-379
	<i>Bowles, Juliana* (University of St Andrews); Silvina, Agastya (University of St Andrews)</i>	
14:45-15:00		ThB2T2.3
	Assessing Variability in Brain Tumor Segmentation to Improve Volumetric Accuracy and Characterization of Change	380-383
	<i>Rios Piedra, Edgar A.* (University of California, Los Angeles); Taira, Ricky (University of California, Los Angeles); El-Saden, Suzie (UCLA); Ellingson, Benjamin (Marquette University); Bui, Alex (University of California, Los Angeles); Hsu, William (University of California, Los Angeles)</i>	

15:00-15:15		ThCT1.1
	Auditory Fatigue Models for Prediction of Gradually Developed Noise Induced Hearing Loss	384-387
	<i>Pengfei, Sun (Southern Illinois University Carbondale); Qin, Jun* (Southern Illinois University Carbondale)</i>	
15:15-15:30		ThCT1.2
	Detecting Food Intake Acoustic Events in Noisy Recordings using Template Matching	388-391
	<i>Olubanjo, Temiloluwa* (Georgia Institute of Technology); Moore, Elliot (Georgia Institute of Technology); Ghovanloo, Maysam (Georgia Institute of Technology)</i>	
15:30-15:45		ThCT1.3
	Bone Length Calibration Can Significantly Improve the Measurement Accuracy of Knee Flexion Angle when using a Marker-Less System to Capture the Motion of Countermovement Jump	392-397
	<i>Giblin, Susan (Kitman Labs); Meldrum, Dara (Royal College of Surgeons, Stephen's Green, Dublin 2); McGroarty, Mark (Kitman Labs Ltd., Dublin); O'Brien, Stuart (Kitman Labs Ltd., Dublin); Rand, Simon (Kitman Labs Ltd., Dublin); Smith, Stephen (Kitman Labs Ltd., Dublin); Grogan, Karl (Kitman Labs Ltd., Dublin); Wetterling, Friedrich* (Kitman Labs Ltd., Dublin)</i>	
15:45-16:00		ThCT1.4
	Excitation Patterns of Two Auditory Models Applied for Noise Induced Hearing Loss Assessment	398-401
	<i>Pengfei, Sun (Southern Illinois University Carbondale); Qin, Jun* (Southern Illinois University Carbondale)</i>	
16:00-16:15		ThCT1.5
	Medical Images Compression with Clinical Diagnostic Quality using Logarithmic DWT	402-405
	<i>Ibraheem, Mohammed Shaaban* (Sorbonne Universités - UPMC); Ahmed, Syed Zahid (Lip6); Hachicha, Khalil (UPMC); Hochberg, Sylvain (CIRA); Garda, Patrick (Université Pierre et Marie Curie - Paris 6)</i>	
16:15-16:30		ThCT1.6
	Development of User-Friendly and Interactive Data Collection System for Cerebral Palsy	406-409
	<i>Raharjo, Inez (Georgia Institute of Technology); Burns, Thomas G. (Childrens Health Care of Atlanta); Venugopalan, Janani (Georgia Institute of Technology); Wang, May D.* (Georgia Tech and Emory University)</i>	

15:00-15:15		ThCT2.1
	A Method for Measuring Parkinson's Disease Related Temporal Irregularity in Spiral Drawings	410-413
	<i>Memedi, Mevludin* (Dalarna University); Aghanavesi, Somayeh (Dalarna University); Westin, Jerker (Dalarna University)</i>	
15:15-15:30		ThCT2.2
	The Measurement and Analysis of Parkinsonian Hand Tremor	414-417
	<i>Zhou, Yue (University of Western Ontario); Jenkins, Mary (University of Western Ontario); Naish, Michael D. (The University of Western Ontario, Lawson Health Research Institute); Trejos, Ana Luisa* (The University of Western Ontario)</i>	
15:30-15:45		ThCT2.3
	Quantitative Assessment of Lower Limb and Cane Movement with Wearable Inertial Sensors	418-421
	<i>Sprint, Gina* (Washington State University); Cook, Diane J. (Washington State University); Weeks, Douglas L. (St. Luke's Rehabilitation Institute)</i>	
15:45-16:00		ThCT2.4
	Automated Patient Handling Activity Recognition for At-Risk Caregivers using an Unobtrusive Wearable Sensor	422-425
	<i>Lin, Feng* (University at Buffalo); Xu, Xiaowei (Huazhong University of Science and Technology); Wang, Aosen (University at Buffalo); Cavuoto, Lora (University at Buffalo); Xu, Wenyao (SUNT at Buffalo)</i>	
16:00-16:15		ThCT2.5
	Smartwatch-Based Activity Recognition: A Machine Learning Approach	426-429
	<i>Weiss, Gary* (Fordham University); Timko, Jessica (Fordham University); Gallagher, Catherine (Fordham University); Yoneda, Kenichi (Fordham University); Schreiber, Andrew (Fordham University)</i>	
16:15-16:30		ThCT2.6
	Simple Ambulatory Gait Monitoring System using a Single IMU for Various Daily-Life Gait Activities	430-433
	<i>Song, Minsu (DGIST, 333, Techno jungang-daero, Hyeonpung-myeon, Dalseong-gun); Kim, Jonghyun* (Daegu Gyeongbuk Institute of Science and Technology (DGIST))</i>	

15:00-15:15		ThCT3.1
	Evaluation of a PPG-Based Algorithm for Prediction of Neurally Mediated Syncope	434-436
	<i>Couceiro, Ricardo (University of Coimbra); de Carvalho, Paulo* (University of Coimbra - NIF); Paiva, Rui Pedro (University of Coimbra); Muehlsteff, Jens (Philips); Henriques, Jorge (University of Coimbra - NIF); Willems, S. (University Heart Centre of the University Hospital Hamburg-Eppen); Peiker, Christiane (Universitätsklinikum Hamburg-Eppendorf); Meyer, Christian (Heinrich-Heine-University Hospital)</i>	
15:15-15:30		ThCT3.2
	Multiparametric Data Analysis for Diagnostic Decision Support in Balance Disorders	437-440
	<i>Exarchos, Themis P. (Unit of Medical Tech & Intelligent Info); Rigas, Georgios (University of Ioannina); Bibas, Thanos (University of Athens); Kikidis, Dimitris (National and Kapodistrian University of Athens); Nikitas, Christos (National and Kapodistrian University of Athens); Wuyts, Floris (University of Antwerp); Ihtijarevic, Berina (University of Antwerp); Maes, Leen (University of Ghent); Cenciarini, Massimo (Yale University); Maurer, Christoph (University of Freiburg); Macdonald, Nora (University College London); Bamiou, Doris (University College London); Luxon, Linda (University College London); Prasinou, Marios (City University); Spanoudakis, George (City University London); Koutsouris, Dimitrios (Biomedical Engineering Laboratory, School of Electrical and Comp); Fotiadis, Dimitrios I.* (University of Ioannina)</i>	
15:30-15:45		ThCT3.3
	Feature Analysis and Extraction of Tumor Vascular Structure on Microscopic Images	441-444
	<i>Lin, Wen-Chen (Chung Yuan Christian University); Lin, Wen-Chi (Chung Yuan Christian University); Huang, Sheng-Cheng (Chung Yuan Christian University); Tsai, Cheng-Lun (Chung Yuan Christian University); Lin, Kang Ping* (Chung Yuan Christian University)</i>	

16:00-16:15 ThCT3.5
Nano Scale Compositional Analysis of Medicinal Plant using Fiber Optical Spectroscopy Techniques N/A
*Gadyam, Uthayakumar** (St.Joseph's College of Engineering); *N, Venkatesh* (St.Joseph's College of Engineering); *K, Sinduja* (St.Joseph's College of Engineering)

ThDT2: 16:45-18:15 Mesquite 3
Thu4.2 Health Informatics-4 (Regular Session)

16:45-17:00 ThDT2.1
Toward Patient-Tailored Summarization of Lung Cancer Literature 449-452
*Garcia-Gathright, Jean** (University of California, Los Angeles); *Matiasz, Nicholas* (University of California, Los Angeles); *Garon, Edward* (University of California, Los Angeles); *Aberle, Denise* (University of California, Los Angeles); *Taira, Ricky* (University of California, Los Angeles); *Bui, Alex* (University of California, Los Angeles)

17:00-17:15 ThDT2.2
A Novel Approach using WAAVES Coder for the EEG Signal Compression 453-456
*Dhif, Imen** (UPMC-LIP6); *Ibraheem, Mohammed Shaaban* (Sorbonne Universités - UPMC); *Lambert, Laurent* (LIP6); *Hachicha, Khalil* (UPMC); *Pinna, Andrea* (LIP6 UMR 7606, Université Pierre et Marie Curie, CNRS, Paris); *Hochberg, Sylvain* (CIRA); *Mhedhbi, Imen* (UPMC); *Garda, Patrick* (Université Pierre et Marie Curie - Paris 6)

17:15-17:30 ThDT2.3
Development of Musculoskeletal Model for the Hyoid Bone During Swallowing 457-460
*Hashimoto, Takuya** (The University of Electro-Communications); *Murakoshi, Atsuko* (The University of Electro-Communications); *Kikuchi, Takahiro* (Musashino Red Cross Hospital); *Michiwaki, Yukihiko* (Musashino Red Cross Hospital); *Koike, Takuji* (The University of Electro-Communications)

17:30-17:45 ThDT2.4
Development of a Software Process Framework to Assist Organizations Developing Mobile Medical Apps 461-464
*Trektere, Kitija** (DkIT); *McCaffery, Fergal* (DkIT); *Lepmets, Marion* (DkIT)

17:45-18:00 ThDT2.5
Agile Model Driven Development of Electronic Health Record-Based Specialty Population Registries 465-468
Kannan, Vaishnavi (University of Texas Southwestern Medical Center); *Fish, Jason* (University of Texas Southwestern Medical Center); *Willett, DuWayne** (University of Texas Southwestern Medical Center)

ThDT3: 16:45-18:15 Mesquite 4
Advanced Solutions for Supporting Coordinated Care of Multimorbid Patients with COPD (Special Session) gy89p

16:45-17:00 ThDT3.1
Biodata Analytics for COPD 469-472
*de Carvalho, Paulo** (University of Coimbra - NIF); *Henriques, Jorge* (University of Coimbra - NIF); *Teixeira, César* (University of Coimbra); *Couceiro, Ricardo* (University of Coimbra); *Rocha, Teresa* (Inst Superior de Eng de Coimbra); *Mendes, Luis* (University of Coimbra); *Nunes, Diogo* (University of Coimbra); *Chouvarda, Ioanna* (Aristotle University); *Maglaveras, Nikolaos* (Aristotle University of Thessaloniki); *Paiva, Rui Pedro* (University of Coimbra)

17:00-17:15 ThDT3.2
User Profiling for Coordinated and Integrated Care 473-476
*Kayyali, Reem** (Kingston University London); *Nabhani-Gebara, Shereen* (Faculty of Science, Engineering and Computing, Kingston University); *Hesso, Iman* (Kingston University London); *Siva, Roshan* (Croydon University Hospital); *Kaimakamis, Evangelos* (Aristotle University of Thessaloniki); *Vaes, Anouk* (CIRO+); *Spruit, Martijn* (CIRO- Centre of expertise for chronic organ failure); *Chang, John* (Croydon University Hospital); *Costello, Richard* (Royal College of Surgeons in Ireland (RCSI)); *Philip, Nada* (Kingston University); *Pierscionek, Barbara* (Kingston University London); *Maglaveras, Nikolaos* (Aristotle University of Thessaloniki)

17:15-17:30 ThDT3.3
Clinical Flows and Decision Support Systems for Co-Ordinated and Integrated Care in COPD 477-480
Chouvarda, Ioanna (Aristotle University); Kilintzis, Vassilis (Aristotle University of Thessaloniki); Beredimas, Nikolaos (Aristotle University of Thessaloniki); Natsiavas, Pantelis (Aristotle University of Thessaloniki); Perantoni, Eleni (G.H. G.Papanikolaou, Thessaloniki Greece); Vogiatzis, Ioannis (General Hospital of Imathia - Health Unit of Naoussa); Kaimakamis, Evangelos (Aristotle University of Thessaloniki); Maglaveras, Nikolaos (Aristotle University of Thessaloniki)*

17:30-17:45 ThDT3.4
New Biosensors and Wearables for Cardiorespiratory Telemonitoring 481-484
Chételat, Olivier (CSEM); Wacker, Josias (CSEM); Rapin, Michael (Swiss Center for Electronics and Microtechnology, CSEM); Porchet, Jacques-André (CSEM SA); Meier, Christophe (CSEM SA); Falhi, Abdessamad (CSEM); Haenni, Etienne (CSEM); Caldani, Laura (Smartex srl); Mancuso, Carlo (Smartex s.r.l.); Paradiso, Rita (Smartex srl); Arneth, Lutz (Kristronics GmbH)*

Friday, 26 February 2016

FrAT1: 10:30-12:00 Mesquite 2
Fri1.1 Sensor Informatics-1 (Regular Session)

10:30-10:45 FrAT1.1
Development of Flexible and Wide-Range Polymer-Based Temperature Sensor for Human Bodies 485-488
Nakamura, Tatsuya (University of Tokyo); Yokota, Tomoyuki (The University of Tokyo); Terakawa, Yuki (University of Tokyo); Reeder, Jonathan (The University of Texas at Dallas); Voit, Walter (University of Texas Dallas); Someya, Takao (the University of Tokyo); Sekino, Masaki (The University of Tokyo)*

10:45-11:00 FrAT1.2
A 41 uW Real-Time Adaptive Neural Spike Classifier 489-492
Zjajo, Amir (Delft University of Technology); van Leuken, Rene (Delft University of Technology)*

11:00-11:15 FrAT1.3
Real-Time Detection of Intradialytic Hypotension using a Novel Polyvinylidene Fluoride based Sensor 493-496
Ansari, Sardar (University of Michigan); Farzaneh, Negar (University of Michigan); Heung, Michael (University of Michigan); Oldham, Kenn (University of Michigan); Derksen, Harm (University of Michigan, Ann Arbor); Ward, Kevin (University of Michigan); Najarian, Kayvan (University of Michigan - Ann Arbor)*

11:15-11:30 FrAT1.4
Frequency-Domain Electrodermal Activity Index of Sympathetic Function 497-500
Posada-Quintero, Hugo Fernando (Worcester Polytechnic Institute); Chon, Ki (University of Connecticut)*

11:30-11:45 FrAT1.5
Development of an EMG-Driven Control System for a Wearable Mechatronic Elbow Brace 501-504
Desplenter, Tyler (University of Western Ontario); Kyrylova, Anastasiia (University of Western Ontario); Trejos, Ana Luisa (The University of Western Ontario)*

11:45-12:00 FrAT1.6
A 2.1 uW/channel Current-Mode Integrated Neural Recording Interface 505-508
Zjajo, Amir (Delft University of Technology); van Leuken, Rene (Delft University of Technology)*

FrAT2: 10:30-12:00 Mesquite 3
Fri1.2 Health Informatics-5 (Regular Session)

10:30-10:45 FrAT2.1
Supporting Novice Clinician's Cognitive Strategies: System Design Perspective 509-512
Islam, Roosan (Baylor College of Medicine); Mayer, Jeanmarie (University of Utah School of Medicine); Clutter, Justin (Aleda E. Lutz VA Medical Center)*

10:45-11:00 FrAT2.2
Informatics-Based Challenges of Building Collaborative Healthcare Research and Analysis Networks from Rural Community Health Centers 513-516
*Harris, Daniel** (University of Kentucky, Center for Clinical and Translational Sc); *Harper, Tamela* (University of Kentucky, Center for Clinical and Translational Sc); *Henderson, Darren* (University of Kentucky, Center for Clinical and Translational Sc); *Henry, Keith* (University of Kentucky, Center for Clinical and Translational Sc); *Talbert, Jeffrey* (University of Kentucky, Center for Clinical and Translational Sc)

11:00-11:15 FrAT2.3
High-Performance Computing Framework for Predictive Simulation of Healthcare Delivery Innovation 517-520
Park, Byung Hoon (Oak Ridge National Laboratory); *Ozmen, Ozgur* (Oak Ridge National Laboratory); *Shankar, Mallikarjun** (Oak Ridge National Laboratory)

11:15-11:30 FrAT2.4
Metrics to Monitor Performance of Patients with Mild Cognitive Impairment using Computer based Games 521-524
*Joshi, Vilas** (Carleton University); *Wallace, Raymond Bruce* (Carleton University); *Shaddy, Anissa* (Carleton University); *Knoefel, Frank-Dietrich* (Bruyere Continuing Care, University of Ottawa, Carleton Universi); *Lord, Courtney* (Bruyere Research Institute); *Goubran, Rafik A.* (Carleton University)

11:30-11:45 FrAT2.5
A Semantic Web-Based Approach to Plausible Reasoning for Improving Clinical Knowledge Engineering 525-528
Mohammadhassanzadeh, Hossein (Dalhousie University); *Van Woensel, William* (Dalhousie University); *Abidi, Samina Raza* (Dalhousie University); *Abidi, Syed Sibte Raza** (Dalhousie University)

11:45-12:00 FrAT2.6
A De-Identification Tool for Users in Medical Operations and Public Health 529-532
Salloway, Mark Kevin (National University of Singapore); *Deng, Xiaodong* (National University of Singapore); *Ning, Yilin* (National University of Singapore); *Kao, Shih Ling* (National University Hospital); *Chen, Ying* (National University of Singapore); *Schaefer, G. Owen* (National University of Singapore); *Chin, Jacqueline Joon-Lin* (National University of Singapore); *Tai, E Shyong* (Division of Endocrinology, National University Health System); *Tan, Chuen Seng** (National University of Singapore)

FrAT3: 10:30-12:00	Mesquite 4
Bioinformatics for Precision Medicine (I) (Special Session) hk81r	

10:30-10:45 FrAT3.1
Analysis and Control of Genetic Regulatory Systems with Switched Drug Inputs 533-536
*Oduola, Wasiu** (Prairie View A&M University); *Li, Xiangfang* (Prairie View A&M University); *Duan, Chang* (Prairie View A&M University); *Qian, Lijun* (Prairie View A&M University); *Wu, Fen* (North Carolina State University.); *Dougherty, Edward* (Texas A&M University)

10:45-11:00 FrAT3.2
On the Limits of Data-Driven Cancer Prognosis Prediction 537-540
*Rezaei Yousefi, Mohammadmahdi** (The Ohio State University); *Dalton, Lori A.* (The Ohio State University)

11:00-11:15 FrAT3.3
Integration of 3D Gene Expression Patterns and Gene Regulatory Networks for Clinical Applications in Epithelial Ovarian Cancer 541-544
*Tchagang, Alain Beaudelaire** (National Research Council); *Fauteux, Francois* (National Research Council Canada); *Pan, Youlian* (National Research Council of Canada)

FrB1T1: 13:30-14:15	Mesquite 2
Fri2.1 Sensor Informatics-2 (Regular Session)	

13:30-13:45 FrB1T1.1
Algorithm to Calculate Human Calorie Expenditure based on a Predicted Heat Strain Model 545-548
Yang, Sheng (International Technological Univ.); *Yeh, Yen-Chun* (International Technological Univ.); *Ladasky, John* (International Technological Univ.); *Schmidt, Dominik** (International Technological Univ.)

13:45-14:00 FrB1T1.2
Estimating Systolic Time Intervals during Walking using Wearable Ballistocardiography 549-552
Javaid, Abdul Qadir (Georgia Institute of Technology); Ashouri, Hazar (Georgia Institute of Technology); Inan, Omer (Georgia Institute of Technology)*

14:00-14:15 FrB1T1.3
Improving the Accuracy of Proximal Timing Detection from Ballistocardiogram Signals using a High Bandwidth Force Plate 553-556
Ashouri, Hazar (Georgia Institute of Technology); Inan, Omer (Georgia Institute of Technology)*

FrB2T2: 14:15-15:00 Mesquite 3
Fri2.2 Public Health Informatics (Regular Session)

14:15-14:30 FrB2T2.1
Investigating the Association between Sociodemographic Factors and Lung Cancer Risk using Cyber Informatics 557-560
Yoon, Hong-Jun (Oak Ridge National Laboratory); Tourassi, Georgia (Oak Ridge National Laboratory)*

14:30-14:45 FrB2T2.2
Poverty and the Emergence of Tuberculosis: An Agent-Based Modelling Approach 561-564
Badmus, Oluyemi Funlola (University of Winnipeg); Camorlinga, Sergio (University of Winnipeg); Simpson, Orlando Kareem (University of Winnipeg)*

14:45-15:00 FrB2T2.3
Predicting Lung Cancer Incidence from Air Pollution Exposures using Shapelet-Based Time Series Analysis 565-568
Yoon, Hong-Jun (Oak Ridge National Laboratory); Xu, Songhua (New Jersey Institute of Technology); Tourassi, Georgia (Oak Ridge National Laboratory)*

FrB1T3: 13:30-15:00 Mesquite 4
Bioinformatics for Precision Medicine (II) (Special Session) hk81r

13:30-13:45 FrB1T3.1
Early Disease Correlated Protein Detection using Early Response Index (ERI) 569-572
Salekin, Sirajul (University of Texas at San Antonio); Bari, Mehrab Ghanat (University of Texas at San Antonio, Electrical and Computer Engi); Itay, Raphael (University of Texas at San Antonio, Department of Biology); Forsthuber, Thomas G. (University of Texas at San Antonio, Department of Biology); Zhang, Jianqiu (Michelle) (University of Texas at San Antonio, Electrical and Computer Engi)*

13:45-14:00 FrB1T3.2
A Reliable Alternative of OptKnock for Desirable Mutant Microbial Strains 573-576
Apaydin, Meltem (Texas A&M University); Zeng, Bo (University of Pittsburgh); Qian, Xiaoning (Texas A&M)*

14:00-14:15 FrB1T3.3
Integration of Multi-Modal Biomedical Data to Predict Cancer Grade and Patient Survival 577-580
Phan, John H. (Georgia Institute of Technology); Hoffman, Ryan (Georgia Institute of Technology); Kothari, Sonal (Georgia Institute of Technology); Wu, Po-Yen (Georgia Institute of Technology); Wang, May D. (Georgia Tech and Emory University)*

14:15-14:30 FrB1T3.4
Optimal Dynamics Uncertainty Reduction in Gene Networks in the Presence of Experimental Error 581-582
Mohsenizadeh, Daniel N. (Texas A&M University); Dehghannasiri, Roozbeh (Texas A&M University); Dougherty, Edward (Texas A&M University)*

FrCT1: 15:00-16:30	Mesquite 2
Fri3.1 Sensor Informatics-3 (Regular Session)	

15:00-15:15		FrCT1.1	
	Alignment-Free, Self-Calibrating Elbow Angles Measurement using Inertial Sensors		583-586
	<i>Müller, Philipp* (Technische Universität Berlin); Begin, Marc-Andre (Sherbrooke University); Schauer, Thomas (University of Berlin); Seel, Thomas (Technische Universität Berlin)</i>		

15:15-15:30		FrCT1.2	
	HeartBEAT: Heart Beat Estimation through Adaptive Tracking		587-590
	<i>Pan, Huijie (Georgia Institute of Technology); Temel, Dogancan (Georgia Institute of Technology); AlRegib, Ghassan* (Georgia Institute of Technology)</i>		

15:30-15:45		FrCT1.3	
	Motion and Noise Artifact-Resilient Atrial Fibrillation Detection Algorithm for a Smartphone		591-594
	<i>Chong, Jo Woon* (Texas Tech University); Cho, Chae Ho (University of Connecticut); Esa, Nada (University of Massachusetts Medical Center); McManus, David (University of Massachusetts Medical Center); Chon, Ki (University of Connecticut)</i>		

15:45-16:00		FrCT1.4	
	Nonlinear Dimension Reduction for EEG-Based Epileptic Seizure Detection		595-598
	<i>Birjandtalab, Javad (University of Texas at Dallas); Baran Pouyan, Mazyar (University of Texas at Dallas); Nourani, Mehrdad* (University of Texas at Dallas)</i>		

16:00-16:15		FrCT1.5	
	Analysing Wireless EEG based Functional Connectivity Measures with Respect to Change in Environmental Factors		599-602
	<i>Biswas, Dwaipayan* (University of Southampton); Bono, Valentina (University of Southampton); Scott-South, Michael (University of Southampton); Chatterjee, Shre Kumar (University of Southampton); Soska, Anna (University of Southampton); Snow, Steve (University of Southampton); Noakes, Catherine (University of Leeds); Barlow, Janet F. (University of Reading); Maharatna, Koushik (University of Southampton); Scharefel, MC (University of Southampton)</i>		

16:15-16:30		FrCT1.6	
	Vog-Enhanced Ica for Removing Blink and Eye-Movement Artefacts from EEG		603-606
	<i>Haji Samadi, Mohammad Reza* (University of Birmingham); Zakeri, Zohreh (University of Birmingham); Cooke, Neil (University of Birmingham)</i>		

FrDT1: 16:45-18:15	Mesquite 2
Progress in Health Informatics: Research and Applications (Special Session) 84r3x	

17:15-17:30		FrDT1.3	
	Using Integrated Clinical Environment Data for Health Technology Management		607-609
	<i>Rausch, Tracy L.* (DocBox Inc); Judd, Tom (Int'l Consultant, WHO Consultant)</i>		

17:30-17:45		FrDT1.4	
	Cloud-Based Diabetes Coaching Platform for Diabetes Management		610-611
	<i>Sloane, Elliot B.* (Center for Healthcare Information Research & Policy (CHIRP)); Wickramasinghe, Nilmini (Illinois Institute of Technology); Goldberg, Steve (Inet International)</i>		

FrDT2: 16:45-18:15	Mesquite 3
Smart and Connected Health (Special Session) qysps	

16:45-17:00		FrDT2.1	
	A Fully Implantable NFC Enabled Continuous Interstitial Glucose Monitor		612-615
	<i>Anabtawi, Nijad* (Intel Corporation, Arizona State University); Freeman, Sabrina (Arizona State University); Ferzli, Rony (Arizona State University)</i>		

17:00-17:15		FrDT2.2
An Auditory Nerve Stimulation Chip with Integrated AFE Sound Processing and Power Management for Fully Implantable Cochlear Implants		616-619
<i>Anabtawi, Nijad* (Intel Corporation, Arizona State University); Freeman, Sabrina (Arizona State University); Ferzli, Rony (Arizona State University)</i>		
17:15-17:30		FrDT2.3
Haptic Feedback and Human Performance in a Wearable Sensor System		620-624
<i>Janidarmian, Majid (McGill University); Roshan Fekr, Atena* (McGill University); Katarzyna, Radecka (McGill University); Zeljko, Zilic (McGill University)</i>		
17:30-17:45		FrDT2.4
Experimental Sleep Phases Monitoring		625-628
<i>Velicu, Oana Ramona (University of Applied Sciences Constance); Martinez Madrid, Natividad (Reutlingen University); Seepold, Ralf* (HTWG Konstanz)</i>		
17:45-18:00		FrDT2.5
An Integrated Agent-Based Approach for Modeling Disease Spread in Large Populations to Support Health Informatics		629-632
<i>Bisset, Keith (Biocomplexity Institute of Virginia Tech); Cadena, Jose (Virginia Tech); Khan, Maleq (Biocomplexity Institute of Virginia Tech); Kuhlman, Chris* (Biocomplexity Institute of Virginia Tech); Lewis, Bryan (Biocomplexity Institute of Virginia Tech); Telionis, Pyrros (Biocomplexity Institute of Virginia Tech)</i>		