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**Tehran, Iran
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Program

Wednesday, December 14

O1: Opening

Brain Internal State Predicts Perception and Behavioral Decision by: Professor Hossein Esteky

R1: Refreshment

SP1: Signal Processing (Fuzzy and GA)

Feature Level Fusion of a Single Channel EEG Signal for Person Authentication

Mohamad Shahab Shahvazian (University of Yazd, Iran); Vahid Abootalebi (Yazd University, Iran); Mohammad T Sadeghi (YAZD University, Iran)
pp. N/A

Concealed Face Recognition Analysis Based on Recurrence Plots

Amir Mehrnam (Shahed University, Iran); Ali Motie Nasrabadi (Shahed University, Iran); Amin Mohammadian (Amirkabir University of Technology, Iran); Shahla Torabi (Amirkabir university of Technology, Iran)
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A Fuzzy Classification System based on Memetic Algorithm for Cancer Disease Diagnosis

Abbas Zibakhsh Shabgahi (Tarbiat Modares University, Iran); Mohammad Saniee Abadeh (University of tarbiat modares, Iran)
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Fuzzy Reconstruction of Cluster-Based Missing Features Method for Robust Speech Recognition

Sadegh Masjoodi (Shahed, Iran); Mansour Vali (Shahed university, Iran)
pp. 11-14

A Data Mining Approach to Fistula Surgery Failure Analysis in Hemodialysis Patients

Mehdi Sepehri (Tarbiat Modares University, Iran); Morteza Khavaninzadeh (Hasheminejad Kidney Center, Iran); Mohammad Rezapour (Tarbiat Modares, Iran); Babak Teimourpour (Tarbiat Modares University, Iran)
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BME1: Biomechanics

Determination of the Optimum Objective Function for Evaluating Optimal Body and Barbell Trajectories of Snatch Weightlifting via Genetic Algorithm Optimization

Sayyid Mohammad Ali Rahmati (Iran University of Science & Technology, Iran); Mohammad Reza Mallakzadeh (IUST, Iran)
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بررسی اثر شکل دندان در تحلیل تنش و خستگی در اثر بارگذاری دینامیکی در ایمپلنت های دندانی به روش اجزا محدود سه بعدی

Milad Farzadi (Iran University of Science and Technology, Iran);
Mohammadreza Mallakzadeh (Iran University of Science and Technology, Iran)
pp. N/A

Effect of Tooth Layers' Segmentation on Pattern of Stress Distribution in Bracket- Adhesive- Tooth System

Maryam Hajizadeh (Sahand University of Technology, Iran); Behnam Mirzakouchaki (Tabriz University of Medical Sciences, Iran); Farzan Ghalichi (Sahand University of Technology, Iran)
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An Experimental Study of Blood Flow in a Model of Coronary Artery with Single and Double Stenoses

Saeed Tiari (Biomedical Engineering Department, Amirkabir University of Technology, Iran); Mahyar Ahmadpour-B (Amirkabir University of Technology & Cardiovascular Laboratory, Iran); Mohammad Tafazzoli-Shadpour (Amirkabir University of Technology, Iran); Mahmoud Reza Sadeghi (University of Isfahan, Iran)
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مطالعه آزمایشگاهی عوامل موثر بر حرکت دودی شکل میزنای در یک مجرای بیولوژیکی

Behzad Seyfi (Iran University of Science and Technology, Iran); Nasser Fotouraee (Amirkabir University of Technology, Iran)
pp. N/A

IMP1: Image Processing and Diagnosis

An Enhanced Hybrid Multiresolution Method for MRI and PET Image Fusion

Atiyeh Moghimi (Amirkabir University of Technology, Iran); Abbas Nasiraei moghaddam (Amirkabir University of Technology, Iran); Sabalan Daneshvar (Supervisor, Iran)
pp. N/A

SVM-based Diagnosis of the Alzheimer's Disease Using 18F-FDG PET with Fisher Discriminant Rate

Hossein Dehghan (Shahrood University of Technology, Iran); Ali Pouyan (Shahrood University of Technology, Iran); Hamid Hassanpour (Shahrood University of Technology, Iran)
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Diagnosis of Pigmented Skin Lesions Through Classifier Combination

Maryam Faal (Tarbiat Modares University, Iran); Mohammad Hossein Miran Baygi (Tarbiat Modares University, Iran); Ehsanollah Kabir (Tarbiat modares university, Iran)
pp. N/A

Analysis of Complexity Features of Dermatological Images, Effective Tool for Automated Diagnosis of Melanoma

Nazanin Karami (Shahid Beheshti University (Medical Campus), Iran); Ali Esteki (Shahid Beheshti University, Iran)
pp. 43-47

Selecting the Best Polarization Angle for Imaging of Pigmented Skin Lesions Toward Automatic Melanoma Diagnosis

Arezoo Zakeri (Tarbiat Modars University, Iran); Mohammad Hossein Miran Baygi (Tarbiat Modares University, Iran); Ehsanollah Kabir (Tarbiat modares university, Iran)
pp. N/A

MOD1: Modelling

Sit-to-Stand or Stand-to-Sit: Which Movement Can Classify Better Parkinsonian Patients From Healthy Elderly Subjects?

Younes Rakhshani Fatmehsari (University of Tehran, Iran); Fariba Bahrami (University of Tehran & ISBME, Iran)
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modeling of Red blood cell deformation in a micro-channel using lattice Boltzmann method

Marzie Rezazadeh (Iran University of Science and Technology, Iran); Mehdi Navidbakhsh (Iran University of Science and Technology, Iran)
pp. N/A

Modeling and Vibration Response Analysis of a Human Skull System with a Viscoelastic Nature

Mohammad Shariyat (Department of Mechanical Engineering, K. N. Toosi University, Tehran, Iran); Hamed Band Band (Department of Mechanical Engineering, K. N. Toosi University of Technology, Tehran & K. N. Toosi University of Technolog, Iran); Hosein Ashrafi (Department of Mechanical Engineering, K. N. Toosi University of Technology, Tehran & K. N. Toosi University of Technolog, Iran)
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Controlling Atrial Fibrillation Using Cohen's Model

Sara Aghajari (Sharif University of Technology, Iran); Fariba Bahrami (University of Tehran & ISBME, Iran)
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Virotherapy modeling using game theory

Reza Rezaei (Shahed University, Iran); Ali Motie Nasrabadi (Shahed University, Iran)
pp. N/A

PP: Poster

Preparation and determination of characteristics of chitosan-N-isopropylacrylamide and Gelatin -N-isopropylacrylamide

Shaghaiegh Baghaie (University of Islamic Azad University, Iran); Mohammad taghi Khorasani (Iran Polymer and Petrochemical Institute, Iran)
pp. N/A

Contribution of BK channels in the firing activity of Purkinje cells

Samira Abbasi (Isfhan University, Iran); Amin Mahnam (University of Isfahan, Iran); Mehdi Edrisi (University of Isfahan, Iran); Mahyar Janahmadi (Shahid Beheshti University, Iran)
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Numerical Simulation of Transitional Blood Flow in Large Arteries

Reza Tabe (Sahand, Iran); Farzan Ghalichi (Sahand University of Technology, Iran); Siamak Hossainpour (Mechanical Engineering Faculty, Iran); Kamran Ghasemzadeh (Chemical Engineering Faculty, Iran)
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P&D 1: Break

SP2: Signal Processing (ExG)

Early Diagnosis of Myocardial Ischemia Using HRV and ST-T Segment and Probabilistic Neural Network

Majid Vafaezadeh (Iran University of Science & Technology, Iran); Abbas Erfanian (Iran University of Science and Technology, Iran); Abbas Forotan (Shahid Beheshti University of Medical Sciences, Germany)
pp. N/A

Spectral Characteristics Assessment in Recognition of Drivers' Drowsiness Using Statistical Tests

Seyedeh Naghme Miri Ashtiani (Shahed University, Iran); Zahra Mardi (Shahed University, Iran); Mohammad Mikaili (University of Shahed, Iran)
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اعتبار سنجی سیگنال الکتروکاردیوگرام در کاربرد مراقبت خانگی

Mahdi Moradi (Islamic Azad University of Mashhad, Iran); Mohammad Ali Khalilzadeh (Azad Islamic of Mashhad, Iran); Ali Reza Heidari (Mashhad University, Iran); Fatemeh Moradi (Shahed of Tehran, Iran); Reza Yaghooby (Azad Islamic of Mashhad, Iran)
pp. N/A

The Application of Empirical Mode Decomposition in Elimination of ECG contamination from EMG signals

Mohsen Naji (Dezful Branch, Islamic Azad University, Iran); S. Mohammad P. Firoozabadi (Tarbiat Modares University, Iran); Sedighe Kahrizi (Tarbiat Modares University, Iran)
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Evaluation of Cepstral Analysis of EHG Signals to Prediction of Preterm Labor

Seyyed Mohammad-sina Baghamoradi (Dezful Branch, Islamic Azad University, Iran); Mohsen Najji (Dezful Branch, Islamic Azad University, Iran); Hesam Aryadoost (Shahid Chamran University, Iran)
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BME2: Biomechanics

Multi-layered nature of the wall of the carotid-artery bifurcation on hemodynamic and mechanical stress and strain

Ali Nikparto (Sharif University of Technology, Iran); Bahar Dehghan Firoozabadi (Sharif University of Technology, Iran)
pp. 84-89

To design and make a mechanical system for clinical studying on rotational deformities of tibia affecting the tibiofemoral contact pressure under standing position loading for human cadavers

Sara Farshidfar (IUST, Iran); Mohammadreza Mallakzadeh (Iran University of Science and Technology, Iran); Hamidreza Yazdi (TUMS, Iran)
pp. N/A

بررسی عددی اثر نفوذ پذیری دیواره دو لایه ای انعطاف پذیر بر پارامترهای همودینامیکی در جریان ضربانی خون از یک شریان کاروتید گرفته شده

Saeed Nahidi (University of Sistan and Baluchestan, Iran); Nasser Fotouraee (Amirkabir University of Technology, Iran); Alireza Hossein Nezhad (University of Sistan and Baluchestan, Iran); Zahra Heidari (Zahedan University of Medical Sciences and Health Services, Iran)
pp. N/A

Analytical study on the turbulent shear-induced hemolysis and platelet activation downstream of mechanical heart valves

Amir Omidvar (Shiraz University of Technology, Iran); Elham Amini (Shahid Beheshti University, Iran)
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Blood Flow Pattern in A Coronary Bypass With Moderate Stenosis

Borhan Alhoseini Hamedani (Iran University of Science and Technology, Iran); Mehdi Navidbakhsh (Iran University of Science and Technology, Iran)
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IMP2: Ultrasound and EIT

A Novel Breast Mass Diagnosis System Based on Zernike Moments as Shape and Density Descriptors

Amir Tahmasbi (The University of Texas at Dallas, USA); Fatemeh Saki (Iran University of Science and Technology, Iran); Hamed Aghapanah (Tarbiat Modares University, Iran); Shahriar Baradaran Shokouhi (IUST & UOW, Iran)
pp. 100-104

Medical Ultrasound Image Compression Based on Error Image Transmission in Region of Interested

Mohammad Bagher Barekatin (Iran University of Science and Technology, Iran); Ahmad Ayatollahi (IUST, Iran)
pp. N/A

The Effect of Ultrasound on the Acceleration of Injured Peripheral Nerve According to Functional Index and Compound Muscle Action Potential Wave

Fateme Zareayan Jahromy (Iran University Of Science And Technology, Iran); Hamid Behnam (Iran University of Science and Technology, Iran); Koorosh Mansoori (Tehran University Of Medical Science, Iran); Jalal Izadi Mobarakeh (Pasteur Institute Of Iran, Iran)
pp. N/A

Imaging of Parameter of Nonlinearity (B/A) in Ultrasound Propagation to Monitor and Control HIFU

Fatemeh Bagheri (Iran University of Science & Technology, Iran); Hamid Behnam (Iran University of Science and Technology, Iran); Jahan Tavakkoli (Ryerson University, Canada)
pp. N/A

Use of Mesh Free Galerkin Method Based on Wavelet Like Basis Functions in Forward Problem Solution of 2D Electrical Impedance Tomography

Nasim Abdollahi (University of Khaje Nasir Toosi, Iran); Reza Jafari (Khajeh Nasir University of Technology, Iran); Mohammad Najafi (Khajeh Nasir University of Technology, Iran)
pp. N/A

BMA1: Biomaterial

Grafting Copolymerization of N-isopropyl Acryl Amide on to Polydimethyl Siloxan Surface and Investigation of Effective Parameters

Khadijeh Zeinali (Islamic Azad University, Science and Research Branch, Iran); Mohammad taghi Khorasani (Iran Polymer and Petrochemical Institute, Iran); Aliasghar Behnamghader (MERC, Iran)
pp. N/A

Antibacterial Ag/SiO₂ Thin Film on Glazed Ceramic Tiles Prepared by Sol-gel Method

Nafiseh Baheiraei (University of Amirkabir, Iran); Fathollah Moztarzadeh (Amirkabir University of Technology, Iran); Mehdi Hedayati (University of Shahid Beheshti, Iran)
pp. 105-108

bioactive hydroxyapatite coatings on the NiTi implants

Vida Khalili (Research Center for Advanced Materials, Sahand University of Technology, Tabriz, Iran); Jafar Khilil allafi (Sahand University of Technology, Iran); Hosein Maleki galeh (Sahand University of Technology, Iran); Hajar Hasani Ardakani (Sahand University of Technology, Iran); Mehdi Javidi (Shiraz University, Iran)
pp. N/A

Chitosan-surface Modified Poly(lactide-co-glycolide) Nanoparticles as an Effective Drug Delivery System

Newsha Jalali (Amirkabir University of Technology, Iran); Fathollah Moztarzadeh (Amirkabir University of Technology, Iran); Masoud Mozafari (Oklahoma State University & Helmerich Advanced Technology Research Center, USA); Shadnaz Asgari (University of California, USA); Siamak Shokri (Sharif University of Technology, Iran); Sanaz Naghavi (Amirkabir University of Technology, Iran)

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Novel hydroxyapatite reinforced by sol-gel derived bioglass composite - Synthesis and in vitro bioactivity

Mohammad Hasan Barounian (Materials and Energy Research Center, Iran); Saeed Hesaraki (MATERIALS AND ENERGY RESEARCH CENTER, Iran); Shokoufe Borhan (MATERIALS AND ENERGY RESEARCH CENTER, Iran); Masoud Aminzare (Iran University of Science and Technology, Iran); Mina Khorami (MATERIALS AND ENERGY RESEARCH CENTER, Iran); Seyed Saeed Mirzaee (MATERIALS AND ENERGY RESEARCH CENTER, Iran)

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R2: Refreshment

SP3: Neural Network

Using Neural Networks to Estimate the Absorption Coefficients of Cesium 137 in Dicentrarchus Labrax

Effat Yahaghi (Imam University, Iran); Amir Movafeghi (Staff member, Iran); Gila Karimi Diba (Specialist, Technology Center, Conservation and Nuclear Safety, Iran); Mohammad Amin Askari (Imam University, Iran)

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A New Method Based on EMD and LZ Complexity Algorithms for Discrimination of Mental Tasks

Somayeh Noshadi (Yazd University, Iran); Vahid Abootalebi (Yazd University, Iran); Mohammad T Sadeghi (YAZD University, Iran)

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MLP طبقه بندی صداهای قلبی با استفاده از تبدیل ویولت و شبکه عصبی

Zainab Mousavi (Azad University of Mashhad, Iran); Saeed Rahati (Azad University of Mashhad, Iran)

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An Extended Recurrent Log-linearized Probabilistic Neural Network and Its Applications to Medical Diagnosis

Ehsan Salehifar (Azad, Iran); Abbas Erfanian (Iran University of Science and Technology, Iran)

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Complex-Valued Artificial Neural Networks for Diagnostic Applications: Introducing Novel Activation Functions

Aboozar Ghorbani nejad (Tarbiat Modares University, Iran); Baback Beig Mohammadi (Tarbiat Modares University, Iran); Ahmad R. Sharafat (Tarbiat Modares University, Iran)

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BME3: Biomechanics

Analytical Studies on Volume Determination of Leg Ulcer Using Laser Triangulation and Structured Light Data Acquisition Techniques

Kian Kiong Chong (Universiti Teknologi PETRONAS, Malaysia); Ahmad Majdi Abdul-Rani (Universiti Teknologi PETRONAS, Malaysia); Ahmad Fadzil (Universiti Teknologi Petronas, Malaysia)

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Numerical Simulation of the 3 Dimensional Heated Necrosis Element Under HIFU Transducer

Meysam Hosseinzadeh (Ferdowsi University of Mashhad, Iran); Mohammad Bagher Ayani (Ferdowsi University of Mashhad & Faculty of Engineering, Iran); Amir Ebrahimi Fakhari (Ferdowsi University of Mashhad, Iran)

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استخراج خصوصیات رفتار مکانیکی بافت مغز از طریق مدلسازی دویعدی با فرض نواحی ناهمگن

Naghmeh Dahi (IUST, Iran); Mohammad Haghpanahi (Iran University of Science and Technology, Iran); Hamed Ajabi Naeeni (Khomeinishahr Branch, Islamic Azad University, Iran)

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A New Custom Designed Cleft Lip and Palate Implant Based on MARP

Arsalan Marghoub (Sahand University of Technology, Iran); Farzan Ghalichi (Sahand University of Technology, Iran); Behnam Mirzakouchaki (Tabriz University of Medical Sciences, Iran); Haniyeh Niroomand Oskuei (SUT, Iran)

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ارائه یک مدل پیش تنشی برای مدلسازی حرکت خزشی سلول

Mehrnush Mehrayin (Iran University of Science and Technology, Iran); Farhad Farmanzad (Amirkabir university of Technology, Iran)

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CR1: Clinical Treatment and Diagnosis

A Finite Element Simulation of LITT in Liver Using Diode and Nd:YAG Lasers

Mohammad Ehsan Salavati (Tarbiat Modares University, Iran); Mohammad Hossein Miran Baygi (Tarbiat Modares University, Iran)

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Quantitative Evaluation of Spasticity At the Elbow of Stroke Patients

Nima Soleymanzadeh Ardabili (Azad University - Science and Research Branch, Iran); Iraj Abdollahi (University of Social Welfare and Rehabilitation

Sciences, Iran); Siamak Khorramymehr (Islamic Azad University-Science and Research Branch, Iran); Hadi Shirzad (Headquarter of Police Force Medicine, Iran); Hossein Bahadorany (Headquarter of Police Force Medicine, Iran)
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Lempel-Ziv Complexity Criteria for Nonlinear Analysis of Gait in Patients with Parkinson's Disease

Younes Rakhshani Fatmehsari (University of Tehran, Iran); Fariba Bahrami (University of Tehran & ISBME, Iran)
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Sara Golbad (IUST, Iran); Mohammad Haghpanahi (Iran University of Science and Technology, Iran)
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Voxel Based Treatment Prediction Using Diffusion Anisotropy Indices and Spatial Information in Glioblastoma Multiform Tumor

Hadi Sabahi (University of Tehran, Iran); Hamid Soltanian-Zadeh (University of Tehran, Iran); Lisa Scarpace (Henry Ford Health System, USA); Tom Mikkelsen (Henry Ford Health System, USA)
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BMA2: Tissue Engineering

Syntheses, Characterization and Comparative Study of Bone Regeneration on Nano Hydroxyapatite and hydroxyapatite/chitosan Nanocomposite in Rat

Mohammad Reza Nikpour (University of Babol, Iran); Shima Tavakol (University of Tehran, Iran); Mahmood Rabiee (University of Babol, Iran); Mohsen Jahanshahi (University of Babol, Iran); Amir Amani (University of Tehran, Iran)
pp. 146-151

fabrication of chitosan and gelatin interpenetrating networks using N-isopropylacrylamide

Shaghaiegh Baghaie (University of Islamic Azad University, Iran); Mohammad taghi Khorasani (Iran Polymer and Petrochemical Institute, Iran)
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Thursday, December 15

ISBME: Annual Meeting of ISBME

Bio-sensor by Dr. z. Bathai

R3: Refreshment

SP4: Signal Processing (EEG and BCI)

Onset Foot Movement Detection Using 1-channel EEG in self-paced Brain Computer Interface

Raheleh Mohammadi (Tarbiat Modares University, Iran); Ali Mahloojifar (Tarbiat Modares University, Iran)

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The New Post Processing Method for Self-Paced BCI System

Mana Manoochehri (Amir Kabir University, Iran); Mh Moradi (Amir kabir University of Tech, Iran)

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An online BCI system for controlling hand movement: Improved Performance by using mutual information based feature selection

Seyedeh Fatemeh Khatami Firoozabadi (IUST, Iran); Abbas Erfanian (Iran University of Science and Technology, Iran)

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An Improved Online P300-Based Brain-Computer Interface: Feature Selection By Mutual Information

Yalda Shahriari (Iran University of Science and Technology, Iran); Abbas Erfanian (Iran University of Science and Technology, Iran)

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Information evaluation and classification of scaling exponents of EEG signals corresponding to visual perception, mental imagery & mental rest for artists and non-artists

Nasrin Shourie (Science and Research Branch, Islamic Azad University, Iran); S. Mohammad P. Firoozabadi (Tarbiat Modares University, Iran); Kambiz Badie (Iran Telecom Research Center, Iran)

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BME4: Biomechanics

طراحی عملگر ریاتیکی ابزار لاپاروسکوپی با قابلیت اندازه گیری نیرو

Seyyed Mohsen Khadem (Sharif University of Technology, Iran); Saeed Behzadipour (Sharif University of Technology, Iran); Farzam Farahmand (Sharif University of Technology, Iran); Alireza Mirbagheri (Sharif University of Technology, Iran)

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Computational investigation of sulphate diffusion into the dog disc

Samira Motaghinasab (Sharif University of Technology, Iran); Aboulfazl Shirazi-Adl (Ecole Polytechnique, Canada); Jill Urban (University of Oxford, United Kingdom); Mohamad Parnianpour (Hanyang University, Ansan, South Korea, Iran); Maryam Hoviattalab (Sharif University of Technology, Iran)

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The effect of heat large vessel on curing cancer, using high intensity focused ultrasound waves in three dimensions

Hamed Chatrsefid (Sabzevar Tarbiat Moallem University, Iran); Meysam Hosseinzadeh (Ferdowsi University of Mashhad, Iran); Mohammad Bagher Ayani (Ferdowsi University of Mashhad & Faculty of Engineering, Iran); Ali Golnezhad (Sabzevar Tarbiat Moallem University, Iran)

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از بین بردن بافتهای سرطانی به وسیله امواج فراصوت کانونی با شدت بالا (HIFU)

Roya Samanipour (Tarbiat Modares University, Iran); Mehdi Maerefat (Tarbiat Modares University, Iran); Manijhe Mokhtari-dizaji (University of Tarbiat Modarres, Iran); Alireza Zolfaghari (Birjand University, Iran)

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Biphasic (Poroviscoelastic) Investigation Of Lumbar Disc By Axisymmetric Finite Element Model

Mohammad Haghpanahi (Iran University of Science and Technology, Iran); Sareh Hoseini Marashi (Islamic Azad University, Iran)

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CR2: FES and Electrophysiology

Adaptive Fuzzy-Sliding mode Control of Rat Knee-Joint with Intramuscular Functional Electrical Stimulation

Abed Khorassani (IUST, Iran); Abbas Erfanian (Iran University of Science and Technology, Iran)

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A computational study to evaluate the mechanism of selectivity in interferential current therapy

Farrokh Manzouri (University of Isfahan, Iran); Amin Mahnam (University of Isfahan, Iran); Mehran Emadi Andani (University of Isfahan, Iran)

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Simulation of Nerve Conduction Block by High-Frequency Sinusoidal Electrical Current Based on the CRRSS Model

Alireza Arianfar (University of Isfahan, Iran); Amin Mahnam (University of Isfahan, Iran)

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Developing a Stimulator and an Interface for FES-Cycling Rehabilitation System

Sanaz Khosravani (Amirkabir University of Technology, Iran); Nasim Lahimgarzadeh (Amirkabir University of Technology, Iran); Ali Maleki (Semnan University & Electrical and Computer Engineering Faculty, Iran)

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IMP3: Ultrasound and Image Processing

Tracking of Multiple Number of Deformable Cells Using Toboggan Edge Preserving Smoothing and correlation coefficient and Rao-Blackwellized Particle Filter with adaptive template update

Hamed Danandeh (Khaje nasir University of Technology, Iran); Hamid Abrishami Moghaddam (K. N. Toosi University of Technology, Iran); Maryam Amirmazlaghani (Amirkabir university of Technology, Iran)
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Retinal Vessel Tortuosity Evaluation via Circular Hough Transform

Farnoosh Ghadiri (Ferdowsi University of Mashhad Mashhad & Machine Vision Lab. Computer Eng. Dept, Iran); Hamid Reza Pourreza (Ferdowsi University of Mashhad, Iran); Touka Banaee (Medical Sciences University of Mashhad, Iran); Morteza Delgir (Robotics lab, USA)
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Detection and Separation of Chirp Echoes in Coded Excitation Ultrasound Imaging Using Fractional Fourier Transform

Amir Akhavan (Tarbiat Modares University, Iran); Ali Mahloojifar (Tarbiat Modares University, Iran); seyedHadi Hashemi-Berenjabad (Tarbiat Modares University, Iran)
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Threshold Based Lossy Compression of Medical Ultrasound Images Using Contourlet Transform

seyyedHadi Hashemi-Berenjabad (Tarbiat Modares University, Iran); Ali Mahloojifar (Tarbiat Modares University, Iran); Amir Akhavan (Tarbiat Modares University, Iran)
pp. 191-194

Ultrasound Elastography Using EMD Analysis

Sajad Sadeghi (Science and Technology University, Iran); Hamid Behnam (Iran University of Science and Technology, Iran); Pooya Sobhebidary (Ryerson University, Canada); Jahan Tavakkoli (Ryerson University, Canada)
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P&D 2: Break

SP5: Signal Processing (Speech)

Segmentation of Speech Into Syllable Units Using Fuzzy Smoothed Short Term Energy Contour

Ghazaal Sheikhi (Amirkabir University of Technology, Iran); Farshad Almasganj (Amirkabir University of Technology, Iran)
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Acoustic Analysis of Persian Vowels and Comparison Results Between Adults and Children

Shahla Azizi (Amirkabir University, Iran); Farzad Towhidkhah (Amirkabir University of Technology, Iran); Farshad Almasganj (Amirkabir University of Technology, Iran); Farhad Torabinezhad (Tehran University, Iran)
pp. 100-104

Automatic Detection of Voice Disorders, Using Dynamic Information of Features

Vida Mehdizadehfar (Amirkabir University Of Technology, Iran); Farshad Almasganj (Amirkabir University of Technology, Iran)
pp. 105-109

TELEPHONY ROBUST SPEECH RECOGNITION USING VECTOR TAYLOR SERIES APPROACH

Mohsen Ghadyani (University of Shahed, Iran); Mansour Vali (Shahed university, Iran); Sara Pour mohammadi (Shahed University, Iran)
pp. 110-114

Log of Filter Bank Energy-Based Bandwidth Extension of Narrowband Speech

Sara Pour mohammadi (Shahed University, Iran); Mansour Vali (Shahed university, Iran); Mohsen Ghadyani (University of Shahed, Iran); Jahanshah Kabudian (Razi University, Iran)
pp. 115-119

BME5: Biomechanics

A Mixture of Modular Structures to Describe Human Motor Planning Level: A New Perspective Based on Motor Decomposition

Mohsen Sadeghi (Isfahan University of Technology, Iran); Mehran Emadi Andani (University of Isfahan, Iran); Abbas Fattah (University of Delaware, Iran); Mohamad Parnianpour (Hanyang University, Ansan, South Korea, Iran)
pp. 199-204

Validation of a musculoskeletal lifting model and using this model to analysis the effect of standing stance on human muscular response in different lifting techniques

Mojtaba Mirakhorlo (Sahand, Iran); Mahmood reza Azghani (Sahand University Of Technology, Iran); Sedighe Kahrizi (Tarbiat Modares University, Iran)
pp. 100-104

The Biomechanical Investigation of Cervical Spine Injury in Case of Vehicle Crash Using Finite-Element Approach

Amir Azimi (Buali sina, Iran); Amir Rouhollahi (Associator, Iran); Mohsen Sadeghimehr (Associator, Iran)
pp. 205-208

Deriving a Closed Form of Equations of Motion of Musculoskeletal System of Human Body: Using Lagrangian Dynamics

Mohammad Gudarzi (Amirkabir University of Technology, Iran); Hossein Ehsani (Amirkabir University of Technology, Iran); Mostafa Rostami (Faculty of Biomedical Engineering, Amirkabir University of Technology, Iran)
pp. 209-214

Musculoskeletal analysis of sit-to-stand maneuver in order to compare the various standing up strategies

Soheil Bajelan (Sahand University Of Technology, Iran); Mahmood reza Azghani (Sahand University Of Technology, Iran)
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A Finite Element Model of Trunk with Muscles by Both Active and Passive Contractions

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