2012 IEEE Symposium on Industrial Electronics and Applications

(ISIEA 2012)

Bandung, Indonesia
23 – 26 September 2012
TECHNICAL PROGRAM

Sunday, September 23

T1: Tutorial 1 - Recent Trends in Electrochemical Energy Storage Systems: Lithium Batteries     N/A
Room: R4: Ballroom I

T2: Tutorial 2 - Structure Prediction of Helical Membrane Protein     N/A
Room: R5: Ballroom II

T3: Tutorial 3 - Private Dispute Resolution in Engineering Projects     N/A
Room: R6: Ballroom III

Monday, September 24

B21: Information & Communications Technology
Room: R2: Galunggung
Chairs: Yau Hee Kho (Swinburne University of Technology, Malaysia), Mohd Najib Mohd Salleh (University Tun Hussein Onn Malaysia, Malaysia)

8:40 A Single Photon Quantum User Bi-directional Authentication Scheme Over Noiseless Channel
Abudhahir Buhari (University Putra Malaysia, Malaysia); Zuriati Zukarnain (Universiti Putra Malaysia, Malaysia); Shamala Subramaniam (Universiti Putra Malaysia, Malaysia); Hishamuddin Zainuddin (University Putra Malaysia, Malaysia); Suhairi Saharudin (MIMOS, Malaysia)

9:00 Sensor Node Placement Based on Minimax for Effective Surveillance
Husna Zainol Abidin (Universiti Teknologi MARA, Malaysia); Norashidah Din (Universiti Tenaga Nasional, Malaysia)

9:20 Design of an Autonomous Remote Cellular Network Service Tester
Sharvin Vijayakumar (Kolej Damansara Utama & Quantum Engineering Solutions Sdn. Bhd., Malaysia); Quan Zee Teng (Quantum Engineering Solutions Sdn. Bhd., Malaysia); Suhanya Jayaparakasam (Kolej Damansara Utama University College, Malaysia); Sivajothi Paramasivam (KDU University College, Malaysia)

9:40 A Fuzzy Modelling of Decision Support System for Crop Selection
Mohd Najib Mohd Salleh (University Tun Hussein Onn Malaysia, Malaysia)

10:00 Autonomic and Cloud Computing Management Services for Healthcare
Nadir K Salih (Harbin Institute of Technology, P.R. China); T Zang (Harbin Institute of Technology, P.R. China)

10:20 Wavelet-based OFDM Analysis: BER Performance and PAPR Profile for Various Wavelets
Jamaluddin Zakaria (Universiti Sains Malaysia, Malaysia); Mohd Fadzli Mohd Salleh (Universiti Sains Malaysia, Malaysia)

10:40 Tea/Cofee Break

11:00 Hybrid Subcarrier Multiplexing Wavelength Division Multiplexing Using Laser and LED Spectral Slicing Architecture
Junita Mohd Nordin (Universiti Malaysia Perlis, Malaysia); Syed Alwede Aljunid (Universiti Malaysia Perlis, Malaysia); Anuar Mat Safar (Universiti Malaysia Perlis (UniMAP), Malaysia); Amir Razif Arief Jamil Abdullah (Universiti Malaysia Perlis, Malaysia); Rosemizi Rahim (Universiti Malaysia Perlis, Malaysia); Badlishah R Ahmad (Universiti Malaysia Perlis, Malaysia); Mohamad Naufal Mohamad Saad (Universiti Teknologi Petronas, Malaysia)

11:20 Design and Development of the FMCW Radar Scene Generator
Dini Handayani (International Islamic University of Malaysia, Malaysia); Wahju Sediono (International Islamic University of Malaysia, Malaysia); Asadullah Shah (International Islamic University of Malaysia, Malaysia)
11:40 Design of an Indoor Wireless Optical Transceiver System with Source and Channel Coding 45
Yau Hee Kho (Swinburne University of Technology, Malaysia); Lisa Yong (Swinburne University of Technology, Malaysia); Kevin Lau (Swinburne University of Technology, Malaysia); Jacky Kiu (Swinburne University of Technology, Malaysia)

12:00 Stemming Algorithm for Different Tenses to Improve Persian Dictionary 50
Arash Ghazvini (Universiti Kebangsaan Malaysia, Malaysia); Mohd Juzaidin Ab Aziz (Universiti Kebangsaan Malaysia, Malaysia)

C21: Electronic Design & Applications

Room: R3: Malabar
Chairs: Cheng-Ta Chiang (National Chia Yi University, Taiwan), Azilah Saparon (Universiti Teknologi MARA, Malaysia)

8:40 A CMOS Auto-Calibrated Light-to-Frequency Converter 54
Cheng-Ta Chiang (National Chia Yi University, Taiwan)

9:00 A CMOS Hybrid Random Number Generator for Cryptographic Systems 58
Cheng-Ta Chiang (National Chia Yi University, Taiwan)

9:20 A Low-Cost CMOS Intelligent Light-Sensing Chip for Environment Light-Sensing Applications 62
Cheng-Ta Chiang (National Chia Yi University, Taiwan)

9:40 A Miniaturization Using Surface Mount Technology of Potentiometric Indicator System for Measuring Human Stress 67
MohdFirdaus Abdullah (Universiti Selangor, Malaysia); Nina Madzhi (Universiti Teknologi MARA, Shah Alam, Malaysia); Nurazreen Zulkeply (Universiti Selangor, Malaysia); Mohd Halim Mohd Noor (Universiti Teknologi MARA, Malaysia); Khairul Azman Ahmad (Universiti Teknologi Mara, Malaysia)

10:00 Telemedicine System: Development of Wireless Healthcare Units with GSM and Bluetooth Link 72
Zainudin Kornain (Universiti Kuala Lumpur British Malaysian Institute, Malaysia); Muhammad Rosli Abdullah (Universiti Kuala Lumpur, Malaysia); Mohd Azlan Abu (Universiti Kuala Lumpur British Malaysian Institute, Malaysia)

10:20 FPGA Implementation of High Speed Serial Peripheral Interface for Motion Controller 78
Nur Qamarina Mohd Noor (Universiti Teknologi MARA, Malaysia); Azilah Saparon (Universiti Teknologi MARA, Malaysia)

10:40 Tea/Coffee Break

11:00 An Efficient Modeling and Simulation of Quantum Key Distribution Protocols Using OptiSystem™ 84
Abudhahir Buhari (University Putra Malaysia, Malaysia); Zuriati Zukarmain (Universiti Putra Malaysia, Malaysia); Shamala Subramaniam (Universiti Putra Malaysia, Malaysia); Hishamuddin Zainuddin (University Putra Malaysia, Malaysia); Suhairi Saharudin (MIMOS, Malaysia)

11:20 Electrical Properties of Neutron-irradiated Silicon and GaAs Commercial Diodes 90
Nurul Fadzlin Hasbullah (International Islamic University Malaysia, Malaysia); Nuurul Iffah Che Omar (International Islamic University Malaysia, Malaysia)

11:40 An Investigation of Ambient Radio Frequency as a Candidate for Energy Harvesting Source 95
Rosemizi Rahim (Universiti Malaysia Perlis, Malaysia)

12:20 Realization of Electronically Tunable First-Order Allpass Filter Using Single-Ended OTAs 100
Montree Kumngern (King Mongkut's Institute of Technology Ladkrabang, Thailand)

12:40 Electronically Tunable Capacitor-Grounded Voltage-Mode Universal Filter with Four-Input-One-Output Using Single-Ended OTAs 104
Montree Kumngern (King Mongkut's Institute of Technology Ladkrabang, Thailand)
Tuesday, September 25

C31: Power Engineering Applications

Room: R3: Malabar
Chairs: Puteri Nor Ashikin Megat Yunus (Universiti Teknologi Mara, Malaysia), Nor Zaihar Yahaya (Universiti Teknologi Petronas, Malaysia)

8:40 Performance Evaluation of SRBC Circuit Using MPPT Controller 108
Nor Zaihar Yahaya (Universiti Teknologi Petronas, Malaysia); Ahmad Alfii Afzan Abu Zamir (Universiti Teknologi Petronas, Malaysia)

9:00 Analysis and Simulation of Phase-Shift Control for Three-Phase AC/DC Full-Bridge Current Injection Series Resonant Converter 114
Mohamad Fauzi Omar (UiTM, Malaysia); Mohammad Nawawi Seroji (Universiti Teknologi MARA, Malaysia); Mustafar Kamal Hamzah (Universiti Teknologi MARA, Malaysia)

9:20 A Study on Performance Enhancement of Electromagnetic Generator Via Finite Element Analysis 118
Zuraini Dahari (Universiti Sains Malaysia (Engineering Campus), Malaysia); ChinChye Wong (Universiti Sains Malaysia, Malaysia); Othman Sidek (Universiti Sains Malaysia, Engineering Campus, Malaysia); Muhamad Azman Bin Miskam (Universiti Sains Malaysia, Malaysia)

9:40 Effect of Shunt Capacitance on Ferroresonance Model for Distribution Voltage Transformer 124
Zulkurnain Abdul-Malek (UTM, Malaysia); Seyed Javad Mirazimi (University Technologi Malaysia, Malaysia); Kamyar Mehranzamir (UTM, Malaysia); Behnam Salimi (UTM, Malaysia)

10:00 Multiple-Input Single-Output Converter for Renewable Energy Sources 130
Mohammad Taufik (Universitas Padjadjaran, Indonesia); Taufik Taufik (California Polytechnic State University, San Luis Obispo, USA); Taffy Wong (Cal Poly State University, USA)

10:20 Ground Fault Currents in Unit Generator-Transformer at Various NGR and Transformer Configurations 136
Ahmad Rizal Sultan (Universiti Teknologi Malaysia, Malaysia)

10:40 Tea/Coffee Break

11:00 Fault Analysis Using PSCAD/EMTDC for 150 kV South Sulawesi Transmission System 141
Makmur Saini (Universiti Teknologi Malaysia, Malaysia)

11:20 Transmission Loss Allocation Based on Harmonic Factor Distortion in Deregulated Electricity Supply Industry 147
Syfainuddin Nojeng (Universiti Teknologi Malaysia & Universitas Muslim Indonesia, Malaysia); Mohammad Yusri Hassan (University of Technology Malaysia(UTM), Malaysia)

11:40 Modeling and Simulation of Torque Hysteresis Controller for Brushless DC Motor Drives 152
Norhazilina Bahari (Universiti Teknikal Malaysia Melaka, Malaysia); Auzani Jidin (Universiti Teknikal Malaysia Melaka, Malaysia); Abdul Rahim Abdullah (Universiti Teknikal Malaysia Melaka, Malaysia); Md Nazri Othman (Universiti Teknikal Malaysia Melaka, Malaysia); Mustafa Manap (Universiti Teknikal Malaysia Melaka, Malaysia)

12:00 An Approach for Fast Power Restoration Plan in a Distribution System Using ANFIS 156
Rasti A Ghani (Universiti Teknologi Malaysia & Malaysia-Japan International Institute of Technology, Malaysia); Mohd Fauzi Othman (Faculty of Electrical Engineering, Universiti Teknologi Malaysia, Malaysia); Abd Manaf Hasyim (MJIT, Universiti Teknikal Malaysia, Malaysia)

12:20 FastICA Techniques for Load Profiles Estimation 161
Mashitah Mohd Hussain (Universiti Teknologi MARA, Malaysia); Zuhaina Zakaria (Universiti Teknologi MARA, Malaysia); Md Salleh Serwan (APS, Malaysia)

12:40 Performance Evaluation of R-UPQC and L-UPQC Based on a Novel Voltage Detection Algorithm 167
Bahr Eldin Suliman Mohammed Osman (University Technology PETRONAS, Malaysia); Rosdiazli Ibrahim (Universiti Teknologi PETRONAS, Malaysia); K S Rama Rao (Universiti Teknologi Petronas, Malaysia); Perumal Nallagownden (Universiti Teknologi Petronas, Malaysia)
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00</td>
<td>Smart Electronic System for Pond Management in Fresh Water Aquaculture</td>
<td>Satya Nagabhushana Rao Kamisetti (JNTUK, India); Arvind Dattatreya Shaligram (Pune University, Pune, India); Shashikant Suresh Sadistap (CEERI Pilani &amp; Head, Scientist_EII, India)</td>
</tr>
<tr>
<td>2:20</td>
<td>Optical Sensor System for Quality Performance of Motorcycle Engine Due to Mileage Factor</td>
<td>Maizatul Zolkapli (Universiti Teknologi MARA, Malaysia); Hadzli Hashim (Universiti Teknologi MARA, Malaysia); Mohd Faizul Idros (Universiti Kebangsaan Malaysia, Malaysia); Fairul Nazmie Osman (Universiti Teknologi MARA, Malaysia); Mohd Zamri Adam (Universiti Teknologi MARA, Malaysia)</td>
</tr>
<tr>
<td>2:40</td>
<td>Robotic Liquid Tension Identification with Particle Swarm Optimized Neural Network</td>
<td>Hong Qian (GenieView, USA); Jian Wu (Jiangsu University, P.R. China); Yuhui Shi (Xi'an Jiaotong-Liverpool University, P.R. China); Jun Steed Huang (Jiangsu University &amp; University of Ottawa, Canada)</td>
</tr>
<tr>
<td>3:00</td>
<td>Robot Localization and Mapping Problem with Bounded Noise Uncertainties</td>
<td>Hamzah Ahmad (University Malaysia Pahang, Malaysia); Toru Namerikawa (Keio University, Japan)</td>
</tr>
<tr>
<td>3:20</td>
<td>Designing an Optimal Fuzzy-PID Controller for Speed Tracking of Stepper Motor</td>
<td>Salinda Buyamin (Universiti Teknologi Malaysia, Malaysia); Herlina Abdul Rahim (Universiti Teknologi Malaysia, Malaysia); Mohamad Fadzli Haniff (Universiti Teknologi Malaysia, Malaysia)</td>
</tr>
<tr>
<td>3:40</td>
<td>Tea/Cofee Break</td>
<td></td>
</tr>
<tr>
<td>4:00</td>
<td>Design and Fabrication of an Electromagnetic Pump for Microfluidic Applications</td>
<td>Chia-Yen Lee (National Pingtung University of Science and Technology, Taiwan); Lung-Ming Fu (National Pingtung University of Science and Technology, Taiwan)</td>
</tr>
<tr>
<td>4:20</td>
<td>Heat Transfer Modelling Through Building Insulation That Is Based on New Measurement Strategy</td>
<td>Anna Antonyova (University of Prešov in Prešov, Slovakia); Peter Antony (Apmikro, Slovakia)</td>
</tr>
<tr>
<td>4:40</td>
<td>An Alternative Method to Improve Efficiency of Plug in Hybrid Electric Vehicles</td>
<td>Krishna Buddhi (National Institute of Technology Karnataka, India); Ullhas Hebbar (National Institute of Technology Karnataka, Surathkal, India)</td>
</tr>
<tr>
<td>5:00</td>
<td>Prototyping of a microProcessor Based on a Modular Graphic Description</td>
<td>Eduardo E Zurek (Universidad del Norte, Colombia); Isaac Varela (Universidad del Norte, Colombia); Ricardo Peña (Universidad del Norte, Colombia)</td>
</tr>
<tr>
<td>5:20</td>
<td>Effect of Swarm Size Parameter on Binary Particle Swarm Optimization-based NARX Structure Selection</td>
<td>Ihsan M. Yassin (Universiti Teknologi Mara, Malaysia); Ramli Adnan (UiTM, Malaysia); Mohd Nasir Taib (Universiti Teknologi MARA, Malaysia); Mohd Khairul Mohd Salleh (Universiti Teknologi MARA &amp; Microwave Technology Centre, Malaysia); Mustafar Kamal Hamzah (Universiti Teknologi MARA, Malaysia)</td>
</tr>
</tbody>
</table>
### B41: Automation & Industrial Electronics (2)

**Room:** R2: Galunggung  
**Chairs:** Varghese Mathew Vaidyan (National Institute Of Technology Calicut, India), Ihsan M. Yassin (Universiti Teknologi Mara, Malaysia)

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:40</td>
<td><strong>Ralos Car: Solar Powered Car with a Hybrid Backup System</strong></td>
<td>Dounya Barrit (Al Akhawayn University, Morocco); Yassine Salih-Alj (Al Akhawayn University, Morocco)</td>
</tr>
<tr>
<td>9:00</td>
<td><strong>Distributed Model Predictive Control of Satellite Attitude Using Hybrid Reaction Wheels and Magnetic Actuators</strong></td>
<td>Yitong Xing (Nanyang Technological University, Singapore); Kay Soon Low (Nanyang Technological University, Singapore); Duc Pham (Nanyang Technological University, Singapore)</td>
</tr>
<tr>
<td>9:20</td>
<td><strong>A Star Pattern Recognition Algorithm for Satellite Attitude Determination</strong></td>
<td>Duc Pham (Nanyang Technological University, Singapore); Kay Soon Low (Nanyang Technological University, Singapore); Chen Shoushun (Nanyang Technological University, Singapore); Yitong Xing (Nanyang Technological University, Singapore)</td>
</tr>
<tr>
<td>9:40</td>
<td><strong>IEC Standards and Distributed Control Systems Modelling</strong></td>
<td>Tomas Bezak (Slovak University of Technology, Slovakia)</td>
</tr>
<tr>
<td>10:00</td>
<td><strong>Automated Car Braking System Using Labview</strong></td>
<td>Mohd Azlan Abu (Universiti Kuala Lumpur British Malaysian Institute, Malaysia); Zainudin Kornain (Universiti Kuala Lumpur British Malaysian Institute, Malaysia); Muhamad Hariz Rosli (Universiti Kuala Lumpur British Malaysian Institute, Malaysia); Izzuddin Muhammad Iqbal (Universiti Kuala Lumpur British Malaysian Institute, Malaysia)</td>
</tr>
<tr>
<td>10:20</td>
<td><strong>Condition Monitoring System for Process Industries A Business Approach</strong></td>
<td>Hafiz Wasif (7th Floor Mercentile house, University of Portsmouth, United Kingdom); David J Brown (University of Portsmouth, United Kingdom); Luke Axel-Berg (Srork Food &amp; Dairy Systems, United Kingdom)</td>
</tr>
<tr>
<td>10:40</td>
<td>Tea/Coffee Break</td>
<td></td>
</tr>
<tr>
<td>11:00</td>
<td><strong>Implementation and Management of an Advanced Online Condition Monitoring System</strong></td>
<td>Azadeh Aboutalebi (Portsmouth University, United Kingdom); Ashraf Labib (University of Portsmouth, The Netherlands); David J Brown (University of Portsmouth, United Kingdom); Hafiz Wasif (7th Floor Mercentile house, University of Portsmouth, United Kingdom); Luke Axel-Berg (Srork Food &amp; Dairy Systems, United Kingdom)</td>
</tr>
<tr>
<td>11:20</td>
<td><strong>MySQL Database Lookup Table for Binary Particle Swarm Optimization-Based System Identification</strong></td>
<td>Ihsan M. Yassin (Universiti Teknologi Mara, Malaysia); Mohd Nasir Taib (Universiti Teknologi MARA, Malaysia); Ramli Adnan (UiTM, Malaysia); Mohd Khairul Mohd Salleh (Universiti Teknologi MARA &amp; Microwave Technology Centre, Malaysia); Mustafar Kamal Hamzah (Universiti Teknologi MARA, Malaysia)</td>
</tr>
<tr>
<td>11:40</td>
<td><strong>Novel FPGA Based Controller Design Platform for DC-DC Buck Converter Using HDL Co-Simulator and Xilinx System Generator</strong></td>
<td>Ananthan Thangavelu (National Institute Of Technology Calicut, India); Varghese Mathew Vaidyan (National Institute Of Technology Calicut, India); Mathew Varghese Vaidyan (National Institute of Technology Calicut, India)</td>
</tr>
<tr>
<td>12:00</td>
<td><strong>AC-DC Single Phase Matrix Converter with a Constant Power Load (CPL)</strong></td>
<td>Puteri Nor Ashikin Megat Yunus (Universiti Teknologi Mara, Malaysia); Awang Jusoh (Universiti Teknologi Malaysia, Malaysia); Mustafar Kamal Hamzah (Universiti Teknologi MARA, Malaysia)</td>
</tr>
</tbody>
</table>
8:40 Image Watermarking Using Slantlet Transform  
Rasha Thabit Mohammed (University Sains Malaysia & School of Electrical and Electronic Engineering, Malaysia); Bee Ee Khoo (University Sains Malaysia, Malaysia)

9:00 Methods and Approaches on Emotions Recognition in Neurodegenerative Disorders: A Review  
Yuvaraj R (Universiti Malaysia Perlis, Malaysia); M Murugappan (Universiti Malaysia Perlis (UniMAP), Malaysia); Kenneth Sundaraj (University Malaysia Perlis, Malaysia)

9:20 Human Emotional Stress Assessment Through Heart Rate Detection in a Customized Protocol Experiment  
Bong Siao Zheng (Universiti Malaysia Perlis & Universiti Malaysia Perlis, Malaysia); M Murugappan (Universiti Malaysia Perlis (UniMAP), Malaysia); Sazali Yaacob (Universiti Malaysia Perlis, Malaysia)

9:40 GPSO Versus Neural Network in Facial Emotion Detection  
Bashir M Ghandi (Universiti Malaysia Perlis, Malaysia); R. Nagarajan (Universiti Malaysia Perlis, Malaysia); Sazali Yaacob (Universiti Malaysia Perlis, Malaysia); Hazry Desa (Universiti Malaysia Perlis, Malaysia)

10:00 Facial Skin Segmentation with Varying Illumination Correction for Evaluation of Facial Surgery Systems  
Mohamad Amin Bakhshali (Sahand University of Technology, Iran); Mousa Shamsi (Sahand University of Technology, Iran); Amir Golzarfar (Sahand University of Technology, Iran)

10:20 Application of SOM Network to Study Facial Skin Segmentation After Facial Surgery  
Mohamad Amin Bakhshali (Sahand University of Technology, Iran); Mousa Shamsi (Sahand University of Technology, Iran); Amir Golzarfar (Sahand University of Technology, Iran)

10:40 Tea/Coffe Break

11:00 A Pattern Recognition Procedure for the Identification of Digital Numbers in Electrical Meters Using Neural Networks  
Daladier Jabba (Universidad del Norte, Colombia); Miguel Rodriguez (Universidad del Norte, Colombia); Geovanni Berdugo (Universidad del Norte, Colombia); Maria Calle (Universidad del Norte, Colombia); Miguel Jimeno (Universidad del Norte & IEEE, Colombia); Eduardo E Zurek (Universidad del Norte, Colombia)

11:20 Spectrum Analysis of Acoustic Signals for Cavitation Detection  
Salem Ali Alhashmi (Sebha University Libya, Libya)

11:40 Identification of Working Memory Impairments in Normal Children Using Wavelet Approach  
Rubita Sudirman (Universiti Teknologi Malaysia, Malaysia); Siti Zubaidah Mohd Tumari (Universiti Teknologi Malaysia, Malaysia); Abdul Hamid Ahmad (Universiti Teknologi Malaysia, Malaysia)

12:00 Implementation of Fuzzy C-Means Clustering for Psoriasis Assessment on Lesion Erythema  
Ahmad Fadzil (Universiti Teknologi Petronas, Malaysia); Esa Prakasa (Universiti Teknologi PETRONAS, Malaysia); Hermawan Nugroho (Universiti Teknologi PETRONAS, Malaysia); Vijanth Sagayan Asirvadam (Intelligent Signal and Imaging Research Cluster & University Teknologi PETRONAS, Malaysia)

12:20 Wavelet Analysis for Shadow Detection in Fringe Projection Profilometry  
Ahmad Fadzil (Universiti Teknologi Petronas, Malaysia); Anwan A Khoiruddin (Universiti Teknologi PETRONAS & Universitas Islam Indonesia, Malaysia); Nicolas Walter (Universiti Teknologi PETRONAS & Centre for Intelligent Signal and Imaging Research (CISIR), Malaysia); Ibrahima Faye (UTP, Malaysia)
Comparison of Different Algorithms for ECG Signal Compression Based on Transfer Coding

Hamidreza Saberkari (Sahand University of Technology, Iran); Mousa Shamsi (Sahand University of Technology, Iran)

The Contribution of Prosody to the Identification of Persian Regional Accents

Ali Gholipour (Sahand University of Technology, Iran); Mohammad H. Sedaaghi (Sahand University of Technology, Iran); Mousa Shamsi (Sahand University of Technology, Iran)

Facial Color Image Enhancement for Aesthetic Surgery Blepharoplasty

Mohamad Amin Bakhshali (Sahand University of Technology, Iran); Mousa Shamsi (Sahand University of Technology, Iran); Amir Golzarfar (Sahand University of Technology, Iran)

Prediction of Protein Coding Regions in DNA Sequences Using Signal Processing Methods

Hamidreza Saberkari (Sahand University of Technology, Iran); Mousa Shamsi (Sahand University of Technology, Iran); Mohammad H. Sedaaghi (Sahand University of Technology, Iran); Faegheh Golabi (Sahand University of Technology, Iran)

Embedded System Design with Filter Bank and Fuzzy Classification Approach to Critical Cardiac Abnormalities Detection

Uvais Qidwai (Qatar University, Qatar); Mohamed Shakir (Qatar University, Qatar)

Fast and Accurate Interest Points Detection Algorithm on 3D Meshes Using Extension of Harris Operator Combined with Hilbert Scanning Distance

Tibyani Tibyani (Waseda University, Japan); Sei-ichiro Kamata (Waseda University, Japan)

Adaptive Short Time Fourier Transform (STFT) Analysis of Seismic Electric Signal (SES): A Comparison of Hamming and Rectangular Window

Winda Astuti (IIUM, Malaysia)

Anomalous Gait Detection Using Naive Bayes Classifier

Nooritawati Md Tahir (Universiti Teknologi MARA, Malaysia); Hany Hazfiza Manap (Universiti Teknologi MARA, Malaysia)

Determination of Reflectance Spectra Model of Skin Phototypes

Hermawan Nugroho (Universiti Teknologi PETRONAS, Malaysia); Ahmad Fadzil (Universiti Teknologi Petronas, Malaysia)

Analysis of the AE Signals Parameter at the Critical Area on the Concrete Beam

Shahiron Shahidah (University Science Malaysia, Malaysia); Norazura Muhamad Bunnori (Universiti Sains Malaysia & USM, Malaysia); Noorsuhada Md Nor (Universiti Teknologi MARA, Malaysia); Shukri Shukri Mohd (Agensi Nuklear Malaysia, Malaysia)