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 ˙˙B#5
Room: R4: Ballroom I

T2: Tutorial 2 - Structure Prediction of Helical Membrane Protein˙˙˙˙B#5
Room: R5: Ballroom II

T3: Tutorial 3 - Private Dispute Resolution in Engineering Projects˙˙˙˙B#5
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 Jayaprakasam (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 Alwee 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 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* ¨¨¨( )
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* ¨¨¨) $
Arash Ghazvini (Universiti Kenabgsaan 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* ¨¨¨) (
Cheng-Ta Chiang (National Chia Yi University, Taiwan)

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

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

9:40 *A Miniaturization Using Surface Mount Technology of Potentiometric Indicator System for* ¨¨¨* +
Measuring Human Stress
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* ¨¨¨+&
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* ¨¨¨+,
Nur Qamarina Mohd Noor (Universiti Teknologi MARA, Malaysia); Azilah Saparon (Universiti Teknologi MARA, Malaysia)

10:40 Tea/Cofee Break

11:00 *An Efficient Modeling and Simulation of Quantum Key Distribution Protocols Using OptiSystem™* ¨¨¨, (
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)

11:20 *Electrical Properties of Neutron-irradiated Silicon and GaAs Commercial Diodes* ¨¨¨- $
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* ¨¨¨-)
Rosemizi Rahim (Universiti Malaysia Perlis, Malaysia)

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

12:40 *Electronically Tunable Capacitor-GroundedVoltage-Mode Universal Filter with Four-InputOne-* ¨¨¨%$(
Output Using Single-Ended OTAs
Montree Kumngern (King Mongkut's Institute of Technology Ladkrabang, Thailand)

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* ¨¨˙‰$,
Nor Zaihar Yahaya (Universiti Teknologi Petronas, Malaysia); Ahmad Afifi 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*
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* ¨¨˙‰‰‚
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* ¨¨˙‰‰(
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* ¨¨˙‰ $
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*
Ahmad Rizal Sultan (Universiti Teknologi Malaysia, Malaysia)

10:40 Tea/Cofee Break

11:00 *Fault Analysis Using PSCAD/EMTDC for 150 kV South Sulawesi Transmission System* ¨¨˙‰(%
Makmur Saini (Universitas Teknology Malaysia, Malaysia)

11:20 *Transmission Loss Allocation Based on Harmonic Factor Distortion in Deregulated Electricity* ¨¨˙‰(+ *Supply Industry*
Syarifuddin 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* ¨¨˙˙‰(&
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* ¨¨˙‰) *
Rasli A Ghani (Universiti Teknologi Malaysia & Malaysia-Japan International Institute of Technolgy, Malaysia); Mohd Fauzi Othman (Faculty of Electrical Engineering, Universiti Teknologi Malaysia, Malaysia); Abd Manaf Hasyim (MJIIT, Universiti Teknologi Malaysia, Malaysia)

12:20 *FastICA Techniques for Load Profiles Estimation* ¨¨˙‰‰ %
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* ¨¨˙˙‰ +
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)

C32: Automation & Industrial Electronics (1)

Room: R3: Malabar
Chairs: Hamzah Ahmad (University Malaysia Pahang, Malaysia), Eduardo E Zurek (Universidad del Norte, Colombia)

2:00 *Smart Electronic System for Pond Management in Fresh Water Aquaculture*
Satya Nagabhushana Rao Kamisetti (JNTUK, India); Arvind Dattatreye Shaligram (Pune University, Pune, India); Shashikant Suresh Sadistap (CEERI Pilni & Head, Scientist_EII, India)

2:20 *Optical Sensor System for Quality Performance of Motorcycle Engine Due to Mileage Factor*
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)

2:40 *Robotic Liquid Tension Identification with Particle Swarm Optimized Neural Network*
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 & University of Ottawa, Canada)

3:00 *Robot Localization and Mapping Problem with Bounded Noise Uncertainties*
Hamzah Ahmad (University Malaysia Pahang, Malaysia); Toru Namerikawa (Keio Unversity, Japan)

3:20 *Designing an Optimal Fuzzy-PID Controller for Speed Tracking of Stepper Motor*
Salinda Buyamin (Universiti Teknologi Malaysia, Malaysia); Herlina Abdul Rahim (Universiti Teknologi Malaysia, Malaysia); Mohamad Fadzli Haniff (Universiti Teknologi Malaysia, Malaysia)

3:40 Tea/Cofee Break

4:00 *Design and Fabrication of an Electromagnetic Pump for Microfluidic Applications*
Chia-Yen Lee (National Pingtung University of Science and Technology, Taiwan); Lung-Ming Fu (National Pingtung University of Science and Technology, Taiwan)

4:20 *Heat Transfer Modelling Through Building Insulation That is Based on New Measurement Strategy*
Anna Antonyová (University of Prešov in Prešov, Slovakia); Peter Antony (Apmikro, Slovakia)

4:40 *An Alternative Method to Improve Efficiency of Plug in Hybrid Electric Vehicles*
Krishna Buddhi (National Institute of Technology Karnataka, India); Ullhas Hebbar (National Institute of Technology Karnataka, Surathkal, India)

5:00 *Prototyping of a microProcessor Based on a Modular Graphic Description*
Eduardo E Zurek (Universidad del Norte, Colombia); Isaac Varela (Universidad del Norte, Colombia); Ricardo Peña (Universidad del Norte, Colombia)

5:20 *Effect of Swarm Size Parameter on Binary Particle Swarm Optimization-based NARX Structure Selection*
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 & Microwave Technology Centre, Malaysia); Mustafar Kamal Hamzah (Universiti Teknologi MARA, Malaysia)

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)

8:40 *Ralos Car: Solar Powered Car with a Hybrid Backup System¨¨¨&&(*
Dounya Barrit (Al Akhawayn University, Morocco); Yassine Salih-Alj (Al Akhawayn University, Morocco)

9:00 *Distributed Model Predictive Control of Satellite Attitude Using Hybrid Reaction Wheels and¨¨¨&' $ Magnetic Actuators*
Yitong Xing (Nanyang Technological University, Singapore); Kay Soon Low (Nanyang Technological University, Singapore); Duc Pham (Nanyang Technological University, Singapore)

9:20 *A Star Pattern Recognition Algorithm for Satellite Attitude Determination¨¨¨&' **
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)

9:40 *IEC Standards and Distributed Control Systems Modelling ¨¨¨&(&*
Tomas Bezak (Slovak University of Technology, Slovakia)

10:00 *Automated Car Braking System Using Labview¨¨¨&(**
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)

10:20 *Condition Monitoring System for Process Industries A Business Approach ¨¨¨&) %*
Hafiz Wasif (7th Floor Mercentile house, University of Portsmouth, United Kingdom); David J Brown (University of Portsmouth, United Kingdom); Azadeh Aboutalebi (Portsmouth University, United Kingdom); Luke Axel-Berg (Srork Food & Dairy Systems, United Kingdom)

10:40 Tea/Cofee Break

11:00 *Implementation and Management of an Advanced Online Condition Monitoring System¨¨¨¨&) +*
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 & Dairy Systems, United Kingdom)

11:20 *MySQL Database Lookup Table for Binary Particle Swarm Optimization-Based System¨¨¨&* ' Identification*
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 & Microwave Technology Centre, Malaysia); Mustafar Kamal Hamzah (Universiti Teknologi MARA, Malaysia)

11:40 *Novel FPGA Based Controller Design Platform for DC-DC Buck Converter Using HDL Co-Simulator¨¨¨&+$ and Xilinx System Generator*
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)

12:00 *AC-DC Single Phase Matrix Converter with a Constant Power Load (CPL)¨¨¨¨&+)*
Puteri Nor Ashikin Megat Yunus (Universiti Teknologi Mara, Malaysia); Awang Jusoh (Universiti Teknologi Malaysia, Malaysia); Mustafar Kamal Hamzah (Universiti Teknologi MARA, Malaysia)

C41: Biomedical & Signal Processing (1)

Room: R3: Malabar
Chairs: Bee Ee Khoo (Universiti Sains Malaysia, Malaysia), M Murugappan (Universiti Malaysia Perlis (UniMAP), Malaysia)

8:40 *Image Watermarking Using Slantlet Transform* ¨¨¨&, %
Rasha Thabit Mohammed (University Sains Malaysia & School of Electrical and Electronic Engineering, Malaysia); Bee Ee Khoo (Universiti 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/Cofee 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); Arwan 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)

C42: Biomedical & Signal Processing (2)

Room: R3: Malabar
Chairs: Nooritawati Md Tahir (Universiti Teknologi MARA, Malaysia), Mousa Shamsi (Sahand University of Technology, Iran)

2:00 *Comparison of Different Algorithms for ECG Signal Compression Based on Transfer Coding* ¨¨¨¨' **(%**
Hamidreza Saberkari (Sahand University of Technology, Iran); <u>Mousa Shamsi</u> (Sahand University of Technology, Iran)

2:20 *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); <u>Mousa Shamsi</u> (Sahand University of Technology, Iran)

2:40 *Facial Color Image Enhancement for Aesthetic Surgery Blepharoplasty* ¨¨¨¨' **) %**
Mohamad Amin Bakhshali (Sahand University of Technology, Iran); <u>Mousa Shamsi</u> (Sahand University of Technology, Iran); Amir Golzarfar (Sahand University of Technology, Iran)

3:00 *Prediction of Protein Coding Regions in DNA Sequences Using Signal Processing Methods* ¨¨¨' **))**
Hamidreza Saberkari (Sahand University of Technology, Iran); <u>Mousa Shamsi</u> (Sahand University of Technology, Iran); Mohammad H. Sedaaghi (Sahand University of Technology, Iran); Faegheh Golabi (Sahand University of Technology, Iran)

3:20 *Embedded System Design with Filter Bank and Fuzzy Classification Approach to Critical Cardiac* ¨¨¨' *** %**
Abnormalities Detection
Uvais Qidwai (Qatar University, Qatar); <u>Mohamed Shakir</u> (Qatar University, Qatar)

3:40 Tea/Cofee Break

4:00 *Fast and Accurate Interest Points Detection Algorithm on 3D Meshes Using Extension of Harris* ¨¨¨' *** +**
Operator Combined with Hilbert Scanning Distance
<u>Tibyani Tibyani</u> (Waseda University, Japan); Sei-ichiro Kamata (Waseda University, Japan)

4:20 *Adaptive Short Time Fourier Transform (STFT) Analysis of Seismic Electric Signal (SES): A* ¨¨¨' **+&**
Comparison of Hamming and Rectangular Window
<u>Winda Astuti</u> (IIUM, Malaysia)

4:40 *Anomalous Gait Detection Using Naive Bayes Classifier* ¨¨¨¨' **+,**
<u>Nooritawati Md Tahir</u> (Universiti Teknologi MARA, Malaysia); Hany Hazfiza Manap (Universiti Teknologi MARA, Malaysia)

5:00 *Determination of Reflectance Spectra Model of Skin Phototypes V* ¨¨¨¨' **, &**
Hermawan Nugroho (Universiti Teknologi PETRONAS, Malaysia); Ahmad Fadzil (Universiti Teknologi Petronas, Malaysia)

5:20 *Analysis of the AE Signals Parameter at the Critical Area on the Concrete Beam* ¨¨¨' **, ***
Shahiron Shahidan (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)