

# 2014 International Conference on Computer and Communication Engineering Program

Time	Ballroom	Meeting Room 1	Meeting Room 2
<b>Tuesday, May 20</b>			
08:30 AM	C1: <i>Communication 1</i>	CO1: <i>Computer 1</i>	CO3: <i>Computer 3</i>
10:30 AM	R1: <i>Tea Break</i>		
11:00 AM	KEY1: <i>Keynote Speaker 1</i>		
02:00 PM	C2: <i>Communication 2</i>	CO2: <i>Computer 2</i>	CO4: <i>Computer 4</i>
<b>Wednesday, May 21</b>			
08:30 AM	C3: <i>Communication 3</i>	CO5: <i>Computer 5</i>	CO7: <i>Computer 7</i>
10:30 AM	R2: <i>Tea Break</i>		
11:00 AM	KEY2: <i>Keynote Speaker 2</i>		
02:00 PM	C4: <i>Communication 4</i>	CO6: <i>Computer 6</i>	CO8: <i>Computer 8</i>

**Tuesday, May 20**

**8:30 AM - 10:30 AM**

**C1: Communication 1**

Room: Ballroom

Chairs: Liza A. Latiff (University Technology Malaysia, Malaysia), Rudy Yuwono (University of Brawijaya, Indonesia)

**8:30 *Comparing Genetic Algorithms and Simulated Annealing***

Arturo Rodriguez (Santiago of Chile University, Chile); Fideromo Saavedra (Universidad de Santiago de Chile, Chile); Leonardo Ramirez (Universidad Militar de Nueva Granada, Colombia); Antonio Gutierrez (Universidad de Santiago de Chile, Chile)

**8:45 *Route Optimization in Proxy Mobile IPv6 Test-Bed Via RSSI APPs***

Liza A. Latiff (University Technology Malaysia, Malaysia); Nur haliza Abdul Wahab (Universiti Teknologi Malaysia, Malaysia)

**9:00 *Polytetrafluoroethylene Glass Microfiber Reinforced Slotted Patch Antenna for Satellite Band Applications***

Md. Samsuzzaman (Universiti Kebangsaan Malaysia, Malaysia); Mohammad Tariqul Islam (Institute of Space Science (ANGKASA) & Universiti Kebangsaan Malaysia, Malaysia); Mohammad Rashed Iqbal Faruque (Senior Lecturer, Malaysia)

**9:15 *2.4 GHz Circularly Polarized Microstrip Antenna for RFID Application***

Rudy Yuwono (University of Brawijaya, Indonesia); Ronanobelta Syakura (University of Brawijaya, Indonesia); Endah Purnomowati (University of Brawijaya Malang, Indonesia); Aisah Aisah (State Politechnic of Malang, Indonesia)

**9:30 *On Understanding Centrality in Directed Citation Graph***

Ismael Ahmad Jannoud (AlZaytoonah University of Jordan & Damascus University, Jordan); Mohammad Masoud (Al-Zaytoonah University of Jordan, P.R. China)

**9:45 *U-Slot Rectangular Patch Antenna for Dual Band Application***

Md Rafiqul Islam (International Islamic University Malaysia, Malaysia); Khaizuran Abdullah (International Islamic University Malaysia, Malaysia); Mohammad Shawkat Habib (International Islamic University Malaysia, Malaysia)

**10:00 *Analysis of Synthetic Storm Technique Based on Ku-Band Satellite Beacon Measurements in Malaysia***

Md Rafiqul Islam (International Islamic University Malaysia, Malaysia); Ali Kadhim Lwas (IIUM, Malaysia); Mohamed Hadi Habaebi (Co-supervisor, Malaysia); Ahmad Fadzil Ismail (International Islamic University Malaysia, Malaysia); Mandeep Singh (Universiti Kebangsaan Malaysia, Malaysia); Jalel Chebil

(International Islamic University Malaysia, Malaysia); Hassan Dao (Universiti Kuala Lumpur, Malaysia);  
Alhareth Zyoud (International Islamic University, Malaysia)

**10:15 *The Evolution of Double Weight Codes Family in Spectral Amplitude Coding OCDMA***

Phaklen Ehkan (University Malaysia Perlis, Malaysia); Nui Din Keraf (Universiti Malaysia Perlis, Malaysia)

## **CO1: Computer 1**

Room: Meeting Room 1

Chairs: Hazleen Aris (Universiti Tenaga Nasional, Malaysia), Muhammad Zuhair (Universiti Sains Islam Malaysia, Malaysia)

### **8:30 Systematic Analysis on Mobile Botnet Detection Techniques Using Genetic Algorithm**

Muhammad Zuhair (Universiti Sains Islam Malaysia, Malaysia); Madihah Mohd Saudi (Universiti Sains Islam Malaysia, Malaysia)

### **8:45 An Empirical Study of the Evolution of PHP Model View Controller (MVC) Framework**

Rashidah Funke Olanrewaju (International Islamic University Malaysia, Malaysia); Thouhedul Islam (International Islamic University Malaysia, Malaysia)

### **9:00 Evolutionary Approach of General System Theory Applied on Web Applications Analysis**

Aneta Bartuskova (University of Hradec Kralove, Czech Republic); Ondrej Krejcar (University of Hradec Kralove & FIM, Czech Republic); Kamil Kuca (University Hospital Hradec Kralove, Czech Republic)

### **9:15 A Novel Distributed Image Steganography Method Based on Block-DCT**

Rosemary Koikara (Don Bosco College of Engineering and Technology, India); Dipjyoti Deka (Don Bosco College of Engineering and Technology, India); Mitali Gogoi (Don Bosco College of Engineering and Technology, India); Rig Das (National Institute of Technology, Rourkela, India)

### **9:30 An Improved History-Based Test Prioritization Technique Using Code Coverage**

Avinash Gupta (MNNIT Allahabad, India); Nayneesh Mishra (MNNIT Allahabad, India); Aprna Tripathi (MNNIT ALLAHABAD, India); Manu Vardhan (National Institute of Technology Raipur, India); Dharmender Kushwaha (MNNIT Allahabad, India)

### **9:45 Local Pricewatch Information Solicitation and Sharing Model Using Mobile Crowdsourcing**

Hazleen Aris (Universiti Tenaga Nasional, Malaysia)

### **10:00 Hardware Implementation of MFCC-Based Feature Extraction for Speaker Recognition**

Phaklen Ehkan (University Malaysia Perlis, Malaysia)

### **10:15 Parallel ASIP-Based Design of Turbo Decoder**

Fazrul Faiz Zakaria (Universiti Malaysia Perlis (UniMAP), Malaysia); Phaklen Ehkan (University Malaysia Perlis, Malaysia); Mohd Nazri Mohd Warip (UNIMAP, Malaysia); Mohamed Elshaikh (UniMAP, Malaysia)

### **CO3: Computer 3**

Room: Meeting Room 2

Chairs: Nik Shahidah Afifi Md Taujuddin (Universiti Tun Hussien Onn Malaysia, Malaysia), Norhidayah Muhammad (Universiti Malaysia Pahang, Malaysia)

#### **8:30 Enhancement of RSA Key Generation Using Identity**

Norhidayah Muhammad (Universiti Malaysia Pahang, Malaysia); Jasni Mohamad Zain (Universiti Malaysia Pahang, Malaysia); Md Yazid Mohamad Saman (Universiti Malaysia Terengganu, Malaysia); Mohd Fadhil Ramle (Electrical, Malaysia)

#### **8:45 Rules Mining Based on Clustering of Inbound Tourists in Thailand**

Wirot Yotsawat (Kasetsart University, Thailand); Anongnart Srivihok (Kasetsart University, Thailand)

#### **9:00 Designing A New Model for Worm Response Using Security Metrics**

Madihah Mohd Saudi (Universiti Sains Islam Malaysia, Malaysia)

#### **9:15 Neural Network Training Algorithms for Carbon Dioxide Emissions Forecast: A Performance Comparison**

Lazim Abdullah (Universiti Malaysia Terengganu, Malaysia)

#### **9:30 Theorem Prover Based Static Analyzer: Comparison Analysis Between ESC/Java2 and KeY**

Aneesa Saeed (University of Malaya, Malaysia); Siti Hafizah Ab Hamid (University of Malaya, Malaysia)

#### **9:45 Designing A New Model for Trojan Horse Detection Using Sequential Minimal Optimization**

Madihah Mohd Saudi (Universiti Sains Islam Malaysia (USIM), Malaysia); Zul Hilmi Abdullah (Universiti Sains Islam Malaysia (USIM), Malaysia); Areej Mustafa Abuzaid (Universiti Sains Islam Malaysia (USIM), Malaysia); Bachok M Taib (Universiti Sains Islam Malaysia (USIM), Malaysia)

#### **10:00 Medical Image Compression by Using Threshold Predicting Wavelet-Based Algorithm**

Nik Shahidah Afifi Md Taujuddin (Universiti Tun Hussien Onn Malaysia, Malaysia); Rosziati Ibrahim (Tun Hussein On University, Malaysia)

#### **10:15 An Efficient Beam Scanning Algorithm for Hidden Node Collision Avoidance in Wireless Sensor Networks**

Moorthi Sujatha (Annauniversity, India)

**10:30 AM - 11:00 AM**

**R1: Tea Break**

Rooms: Ballroom, Meeting Room 1, Meeting Room 2

**11:00 AM - 12:00 PM**

**KEY1: Keynote Speaker 1**

Room: Ballroom

To be Added

**2:00 PM - 5:00 PM**

**C2: Communication 2**

Room: Ballroom

Chairs: Nur Khalida Abdul Khalid (UTHM, Malaysia), Wan Noor Najwa Wan Marzudi (Universiti Tun Hussein Onn Malaysia, Malaysia)

***2:00 Performance Evaluation of LTE Scheduling Techniques for Heterogeneous Traffic and Different Mobility Scenarios***

Mohamed Hadi Habaebi (International Islamic University Malaysia (IIUM) & Faculty of Engineering, Malaysia); Lukman Sukeran (IIUM, Malaysia); Alhareth Zyoud (International Islamic University, Malaysia); Musse Mohamud Ahmed, Dr (International Islamic University & Faculty of Engineering, Malaysia); Shihab A. Hameed (IIUM University, Malaysia); Amelia Wong (IIUM, Malaysia)

***2:15 Design for Energy-Aware IP Over WDM Networks with Hibernation Mode and Group-Node Techniques***

Mohd Nazri Mohd Warip (UNIMAP, Malaysia); Phaklen Ehkan (University Malaysia Perlis, Malaysia); Ivan Andonovic (University of Strathclyde, United Kingdom); Ivan Glesk (University of Strathclyde, United Kingdom); Badlishah R Ahmad (Universiti Malaysia Perlis, Malaysia); Mohamed Elshaikh (UniMAP, Malaysia); Fazrul Faiz Zakaria (Universiti Malaysia Perlis (UniMAP), Malaysia); Shamsul Jamel Elias (University Technology MARA, Malaysia)

***2:30 Content Based Image Retrieval Using Color Layout Descriptor and Generic Fourier Descriptor***

Muhammad Imran (University Tun Hussein Onn Malaysia, Malaysia); Rathiah Binti Hashim (University Tun Hussein Onn Malaysia, Malaysia); Noor Elaiza Abd Khalid (UiTM, Malaysia)

***2:45 Two Elements Crescent Shaped Printed Antenna for Wireless Applications***

Wan Noor Najwa Wan Marzudi (Universiti Tun Hussein Onn Malaysia, Malaysia); Zuhairiah Zainal Abidin (Universiti Tun Hussein Onn Malaysia, Malaysia); Yue Ma (National Astronomical Observatories, Chinese Academy of Sciences, P.R. China)

***3:00 Pilot Based Pre FFT Signal to Noise Estimation for OFDM Systems in Rayleigh-Fading Channel***

Abid Khan (University Technology Petronas, Malaysia); Varun Jeoti (University Teknologi PETRONAS, Malaysia)

***3:15 The Use of Convolutional Code for Narrowband Interference Suppression in OFDM-DVBT System***

Aizura Abdullah (International Islamic University, Malaysia); Muhammad Sobrun Jamil Jamal (International Islamic University of Malaysia (IIUM), Malaysia); Khaizuran Abdullah (International Islamic University Malaysia, Malaysia); Ahmad Fadzil Ismail (International Islamic University Malaysia, Malaysia); Aniliza Asnawi (International Islamic University Malaysia, Malaysia)

**3:30 Ultra Wideband Circularly Polarized Printed Monopole Antenna for C-Band**

Touhidul Alam (Universiti Kebangsaan Malaysia & Lecturer, International Islamic University Chittagong, Malaysia); Mohammad Rashed Iqbal Faruque (Centre for Space Science (ANGKASA), UKM, Malaysia); Mohammad Tariqul Islam (Institute of Space Science (ANGKASA) & Universiti Kebangsaan Malaysia, Malaysia)

**3:45 A Novel Anti-collision Protocol for Optimization of Remote Sensing in Dense Reader Environments**

Faiza Nawaz (University Teknologi PETRONAS, Malaysia); Varun Jeoti (University Teknologi PETRONAS, Malaysia)

**4:00 Double Square Loop Frequency Selective Surface (FSS) for GSM Shielding**

Nur Khalida Abdul Khalid (UTHM, Malaysia); Fauziahanim Che Seman (Universiti Tun Hussein Onn Malaysia, Malaysia)

**4:15 Analysis of the Active Region of Archimedean Spiral Antenna**

Abdirahman Mohamud Shire (UTHM, Malaysia); Fauziahanim Che Seman (Universiti Tun Hussein Onn Malaysia, Malaysia)

**4:30 Optimization of BER Performance in the MIMO-OFDMA System for Mobile WiMAX System Using Different Equalization Algorithm**

Norhayati Abdullah (Universiti Teknologi Mara & Faculty of Electrical eEgineering, Malaysia)

**4:45 Performance Analysis of Polling Delay in Transparent & Non-Transparent Multi-hop Relay WiMAX Network**

Mohd Daud Alang Hassan (Universiti Teknologi MARA, Malaysia)



## **CO2: Computer 2**

Room: Meeting Room 1

Chairs: Noraidah Blar (Universiti Teknikal Malaysia Melaka, Malaysia), Norzilah Musa (Universiti Teknologi MARA, Malaysia)

### **2:00 Enhancing the Efficiency of Software Reliability by Detection and Elimination of Software Failures Through Univariate Outlier Mining**

Poonkuzhali Sugumaran (Rajalakshmi Engineering College & Anna University, India); Kishore Ravi (Anna University, India); Kumar R (Rajalakshmi Engineering College, India)

### **2:15 Law Reckoner for Indian Judiciary: An Android Application for Retrieving Law Information Using Data Mining Methods**

Poonkuzhali Sugumaran (Rajalakshmi Engineering College & Anna University, India); Kishore Ravi (Anna University, India); Ciddarth Viswanathan (Anna University, India)

### **2:30 A Comparative Study of Web Application Testing and Mobile Application Testing**

Maryam Ahmed (University Tun Hussein Onn Malaysia, Malaysia); Rosziati Ibrahim (Tun Hussein Onn University, Malaysia)

### **2:45 Semantic Search Engine Using Natural Language Processing**

Sudhakar Pandiarajan (Kamaraj College of Engineering and Technology & Anna University, India); Yazhmozhi Y (Mepco Schlenk Engineering College, India); Praveenkumar Premkamal (Kamaraj College of Engineering and Technology, India)

### **3:00 A Novel Method for Distributed Image Steganography**

Bismita Choudhury (Assam Don Bosco University, India); Rig Das (National Institute of Technology, Rourkela, India); Themrichon Tuithung (NERIST, India)

### **3:15 A Survey on Application of Robotic Teacher in Malaysia**

Noraidah Blar (Universiti Teknikal Malaysia Melaka, Malaysia); Fairul Azni Jafar (Utsunomiya University, Japan)

### **3:30 A Framework for Sharing Communication Media in Supporting Creative Task in Collaborative Workspace**

Norzilah Musa (Universiti Teknologi MARA, Malaysia); Siti Z. Z. Abidin (Universiti Teknologi MARA, Malaysia); Nasiroh Omar (Universiti Teknologi MARA, Malaysia)

### **3:45 Experimental Analysis on Available Bandwidth Estimation Tools for Wireless Mesh Network**

Imran Edzereiq Kamarudin (Universiti Malaysia Pahang, Malaysia); Mohamed Ariff Ameen (Universiti Malaysia Pahang, Malaysia); Zafri Rizal M Azmi (Universiti Malaysia Pahang, Malaysia)

#### **4:00 Multi-Objective Functions in Grid Scheduling**

Zafril Rizal M Azmi (Universiti Malaysia Pahang, Malaysia); Mohamed Ariff Ameen (Universiti Malaysia Pahang, Malaysia); Imran Edzereiq Kamarudin (Universiti Malaysia Pahang, Malaysia)

#### **4:15 A Survey of Petri Nets**

Weng Jie Thong (University Malaysia Pahang, Malaysia); Mohamed Ariff Ameen (Universiti Malaysia Pahang, Malaysia)

#### **4:30 Integration of Mobile Based Learning Application Through Augmented Reality Book by Incorporating Students Attention Elements**

Zarwina Yusoff (Universiti Teknologi Malaysia, Malaysia)

#### **4:45 An Access Control Framework in an Ad Hoc Network Infrastructure**

Tanya Koohpayeh Araghi (Universiti Teknologi Malaysia (UTM), Malaysia); Mazdak Zamani (Universiti Teknologi Malaysia (UTM), Malaysia); Azizah Abdul Manaf (Universiti Teknologi Malaysia, Malaysia); Sagheb Kohpayeh Araghi (Multimedia University Malaysia 63100 Cyberjaya Selangor MALAYSIA, Malaysia)

## **CO4: Computer 4**

Room: Meeting Room 2

Chairs: Fitri Maya Puspita (Universiti Sains Islam Malaysia, Malaysia), Nurnadiah Zamri (University Malaysia Terengganu, Malaysia)

### **2:00 *Detection and Revocation of Misbehaving Vehicles From VANET***

Atanu Mondal (Camelia Institute of Technology, India); Sulata Mitra (Bengal Engineering and Science University, India)

### **2:15 *A Novel Steganalysis Method Based on Histogram Analysis***

Bismita Choudhury (Assam Don Bosco University, India); Rig Das (National Institute of Technology, Rourkela, India); Arup Baruah (Assam Don Bosco University, India)

### **2:30 *Classification of Pattern Recognition Techniques: A Survey***

Mohd Shahidan Abdullah (Universiti Teknologi Malaysia, Malaysia); Sasan Karamizadeh (Advanced Informatics School (AIS), Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia)

### **2:45 *Environmental Noise Analysis for Robust Automatic Speech Recognition***

Machavarapu Venkatarao (vignan university, India)

### **3:00 *Performance Comparison of Selected Classification Algorithms Based on Fuzzy Soft Set for Medical Data***

Saima Anwar Lashari (Universiti Tun Hussein Onn Malaysia, Malaysia); Rosziati Ibrahim (Tun Hussein Onn University, Malaysia)

### **3:15 *A Hybrid Selection Method Based on HCELFs and SVM for the Diagnosis of Oral Cancer Staging***

Fatihah Mohd (University Malaysia Terengganu, Malaysia); Zainab Abu Bakar (Universiti Teknologi MARA & Faculty of Computer & Mathematical Sciences, Malaysia); Noor Maizura Mohamad Noor (Universiti Malaysia Terengganu, Malaysia)

### **3:30 *A Linear Assignment Method of Simple Additive Weighting System in Linear Programming Approach Under Interval Type-2 Fuzzy Set Concepts***

Nurnadiah Zamri (University Malaysia Terengganu, Malaysia)

### **3:45 *Hybridization Denoising Method for Digital Image in Low-Light Condition***

Suhaila Sari (Universiti Tun Hussein Onn Malaysia, Malaysia); Hazli Roslan (Universiti Tun Hussein Onn Malaysia, Malaysia); Zarina Tukiran (UTM, Malaysia)

### **4:00 *The Improved Models of Internet Pricing Scheme of Multi Service Multi Link Networks with Various Capacity Links***

Fitri Maya Puspita (Universiti Sains Islam Malaysia, Malaysia)

**4:15 *Improving the Models of Internet Charging in Single Link Multiple Class QoS Networks***

Fitri Maya Puspita (Universiti Sains Islam Malaysia, Malaysia); Irmeilyana Saidi Ahmad (Universitas Sriwijaya, Indonesia)

**4:30 *An Extension of the ELECTRE I Method for an Interval Type-2 Fuzzy TOPSIS Approach***

Nurnadiyah Zamri (University Malaysia Terengganu, Malaysia)

**4:45 *The Role of Green IT and IT for Green Within Green Supply Chain Management: A Preliminary Finding From ISO14001 Companies in Malaysia***

Savita K Sugathan (Universiti Teknologi PETRONAS, Malaysia)

**Wednesday, May 21**

**8:30 AM - 10:30 AM**

### **C3: Communication 3**

Room: Ballroom

Chairs: Sarah Abdulqader (University Malaysia Perlis, Malaysia), Kin Honn Chiam (University Sains Malaysia, Malaysia)

#### **8:30 *Blind Source Computer Device Identification From Recorded Calls***

Mehdi Jahanirad (University of Malaya, Malaysia); Ainuddin Wahid Bin Abdul Wahab (University of Malaya, Malaysia); Nor Badrul Anuar (University of Malaya, Malaysia)

#### **8:45 *Visibility for Network Security Enhancement in Internet Protocol Over Ethernet Networks***

Waleed Hussein (University Tun Abdul Razak, Malaysia); Longzheng Cai (International University, UNITAR, Malaysia); Shaymaa Alyawer (Baghdad College, Malaysia)

#### **9:00 *Comparative Analysis of Different Single Cell Metamaterial***

Pankaj Rameshchandra Katiyar (University of Malaya, Malaysia); Wan Nor Liza Wan Mahadi (University of Malaya, Malaysia)

#### **9:15 *Distributed Video Coding with Frame Estimation At Decoder***

Kin Honn Chiam (University Sains Malaysia, Malaysia); Mohd Fadzli Mohd Salleh (Universiti Sains Malaysia, Malaysia)

#### **9:30 *Performance Analysis of an OCDMA System Based on SPD Detection Utilizing Different Types of Optical Filters for Access Networks***

Sarah Abdulqader (University Malaysia Perlis, Malaysia); Hilal A. Fadhil (University Malaysia Perlis, Malaysia); Syed Alwee Aljunid (Universiti Malaysia Perlis, Malaysia)

#### **9:45 *Partially Compensated Power Control Technique for LTE-A Macro-Femto Networks***

Sawsan Saad (Universiti Kebangsaan Malaysia, Malaysia); Mahamod Ismail (Universiti Kebangsaan Malaysia, Malaysia); Rosdiadee Nordin (Universiti Kebangsaan Malaysia, Malaysia)

#### **10:00 *Design and Development of the Visible Light Communication System***

Anuar Musa (Telekom Research and Development, Malaysia); Noor Aisyah Mohd Akib (TM Research & Development, Malaysia); Nazaruddin Omar (Telekom Research & Development Sdn Bhd, Malaysia); Mazlaini Yahya (TM Research & Development, Malaysia); Kamarulzamin Salleh (TMRnD, Malaysia)

#### **10:15 *Bowtie Shaped Substrate Integrated Waveguide Bandpass Filter***

Muhammad Zaka Ur Rehman (Universiti Teknologi PETRONAS, Malaysia); Zuhairi Baharudin (Universiti Teknologi PETRONAS, Malaysia); Mohd Haris Md Khir (Universiti Teknologi PETRONAS, Malaysia); M Azman Zakariya (Universiti Teknologi PETRONAS, Malaysia); Talha Khan (Universiti Teknologi Petronas, Malaysia); Adz Jamros Jamali (Universiti Teknologi Petronas, Malaysia)

## **CO5: Computer 5**

Room: Meeting Room 1

Chairs: Ibrahim Alseadoon (Queensland University of Technology, Australia), R Kanesaraj Ramasamy (Multimedia University, Malaysia)

### ***8:30 Integrating E-Learning with Radio Frequency Identification (RFID) for Learning Disabilities: A Preliminary Study***

Wan Fatin Fatimah Yahya (University Malaysia Terengganu, Malaysia)

### ***8:45 Palmprint Identification Using Invariant Moments Algorithm Based on Wavelet Transform***

Inass Hussein (UKM, Malaysia); Md Jan Nordin (Universiti Kebangsaan Malaysia & Centre for Artificial Intelligence Technology, UKM, Malaysia)

### ***9:00 Auto Mobile Ad Hoc Mechanism in Delay Tolerant Network***

Sharifah Hafizah Syed Ariffin (Universiti Teknologi Malaysia, Malaysia); Muhammad Affandy Azman (Universiti Teknologi Malaysia, Malaysia); Norsheila Fisal (Universiti Teknologi Malaysia & Faculty of Electrical Engineering, Malaysia); Mazlan Abbas (MIMOS Berhad, Malaysia); Mohd Husaini Mohd Fauzi (Universiti Teknologi Malaysia, Malaysia); Sharifah K. Syed-Yusof (Universiti Teknologi Malaysia, Malaysia)

### ***9:15 An Exploratory Study on Blind Users' Mental Model in Computer Accessibility***

Manoranjitham Muniandy (Universiti Teknologi Petronas, Malaysia); Suziah Sulaiman (Universiti Teknologi PETRONAS, Malaysia)

### ***9:30 Case-Based Reasoning and Profiling System for Learning Mathematics (CBR-PROMATH)***

Nur Azlina Mohamed Mokmin (Universiti Sains Malaysia, Malaysia)

### ***9:45 What is the Influence of Users' Characteristics on Their Ability to Detect Phishing Emails?***

Ibrahim Alseadoon (Queensland University of Technology, Australia)

### ***10:00 Adaptive and Dynamic Service Composition for Cloud-Based Mobile Application***

R Kanesaraj Ramasamy (Multimedia University, Malaysia); Fang-Fang Chua (Multimedia University, Malaysia); Su-Cheng Haw (MMU, Malaysia)

### ***10:15 Web Service Composition Using Windows Workflow for Cloud-Based Mobile Application***

R Kanesaraj Ramasamy (Multimedia University, Malaysia); Fang-Fang Chua (Multimedia University, Malaysia); Su-Cheng Haw (MMU, Malaysia)

## **CO7: Computer 7**

Room: Meeting Room 2

Chairs: Lay Khoon Lee (Universiti Malaysia Pahang, Malaysia), Vitaliy Mezhuyev (University Malaysia Pahang, Malaysia)

### ***8:30 An Effective Image Retrieval Method Based on Fractal Dimension Using Kernel Density Estimation***

Qin Zhang (College of Automation Engineering, Nanjing University of Aeronautics and Astronautics, P.R. China); Liu Wenbo (Nanjing University of Aeronautics and Astronautics, P.R. China); Xiaoqing Huang (Nanjing University of Aeronautics and Astronautics, P.R. China)

### ***8:45 Bio Terapi Solat - 3D Integration of Solat Technique for Therapeutic Means***

Arifah Fasha Rosmani (Universiti Teknologi MARA, Malaysia); Noor Azura Zainuddin (Universiti Teknologi MARA, Malaysia); Siti Zulaiha Ahmad (Universiti Teknologi Mara Perlis, Malaysia); Siti Zubaida Ramli (Universiti Teknologi MARA, Malaysia)

### ***9:00 Enhanced Interactive Mathematical Learning Courseware Using Mental Arithmetic for Preschool Children***

Siti Zulaiha Ahmad (Universiti Teknologi Mara Perlis, Malaysia); Noor Asmaliyana Ahmad (UiTM, Malaysia); Arifah Fasha Rosmani (Universiti Teknologi MARA, Malaysia); Umi Hanim Mazlan (University Technology Mara, Malaysia); Mohammad Hafiz bin Ismail (Universiti Teknologi MARA, Malaysia)

### ***9:15 Comparative Evaluation of Ensemble Learning and Supervised Learning in Android Malwares Using Network-based Analysis***

Ali Feizollah (University of Malaya, Malaysia); Nor Badrul Anuar (University of Malaya, Malaysia); Rosli Salleh (University of Malaya, Malaysia); Fairuz Amalina (University of Malaya, Malaysia)

### ***9:30 Metamodelling Architecture for Modelling Domains with Different Mathematical Structure***

Vitaliy Mezhuyev (University Malaysia Pahang, Malaysia)

### ***9:45 A Review of Image Segmentation Methodologies in Medical Image***

Lay Khoon Lee (Universiti Malaysia Pahang, Malaysia); Siau-Chuin Liew (Universiti Malaysia Pahang, Malaysia); Weng Jie Thong (University Malaysia Pahang, Malaysia)

### ***10:00 Tailored MFCCs for Sound Environment Classification in Hearing Aids***

Roberto Gil-Pita (University of Alcalá, Spain); Beatriz López-Garrido (Servicio de Salud de Castilla la Mancha (SESCAM), Spain); Manuel Rosa (University of Alcalá, Spain)

### ***10:15 Use Case Based Approach to Analyze Software Change Impact and Its Regression Test Effort Estimation***

Avinash Gupta (MNNIT Allahabad, India); Aprna Tripathi (MNNIT ALLAHABAD, India); Dharmender Kushwaha (MNNIT Allahabad, India)

**10:30 AM - 11:00 AM**

**R2: Tea Break**

Rooms: Ballroom, Meeting Room 1, Meeting Room 2

**11:00 AM - 12:00 PM**

**KEY2: Keynote Speaker 2**

Room: Ballroom

To Be Added



**2:00 PM - 5:00 PM**

**C4: Communication 4**

Room: Ballroom

Chairs: Kamarul Ariffin Abd Rashid (Universiti Teknikal Malaysia Melaka & Politeknik Seberang Perai, Malaysia), Shakhirul Mat sallah (University Malaysia Perlis, Malaysia)

**2:00 *The Embroidered Antenna on Bending Performances for UWB Application***

Shakhirul Mat sallah (University Malaysia Perlis, Malaysia); Muzammil Jusoh (Universiti Malaysia Perlis & School of Computer and Communication Engineering, Malaysia); Abdul Hafiizh Ismail (UniMAP, Malaysia)

**2:15 *The Embroidered Wearable Antenna for UWB Application***

Shakhirul Mat sallah (University Malaysia Perlis, Malaysia); Muzammil Jusoh (Universiti Malaysia Perlis & School of Computer and Communication Engineering, Malaysia); Abdul Hafiizh Ismail (UniMAP, Malaysia)

**2:30 *Channel Capacity of Indoor MIMO Systems in the Presence of Spatial Diversity***

Misida Senon (Universiti Teknikal Malaysia Melaka, Malaysia); Mohd Nor Husain (Universiti Teknikal Malaysia Melaka, Malaysia); Mohamad Zoinol Abidin Bin Abd Aziz (Universiti Teknikal Malaysia Melaka & Hang Tuah Jaya, Malaysia); Mohamad Tarmizy Ahmad (Mohamad Tarmizy Ahmad, Malaysia); Kamarul Ariffin Abd Rashid (Universiti Teknikal Malaysia Melaka & Politeknik Seberang Perai, Malaysia); Muhammad Majdi Saad (UTeM, Malaysia); J Sam Hamidon (Universiti Teknikal Malaysia Melaka, Malaysia)

**2:45 *Design of Multi-Band Antenna for Wireless MIMO Communication Systems***

Muhammad Majdi Saad (UTeM, Malaysia); Mohd Nor Husain (Universiti Teknikal Malaysia Melaka, Malaysia); Mohamad Zoinol Abidin Bin Abd Aziz (Universiti Teknikal Malaysia Melaka & Hang Tuah Jaya, Malaysia); Kamarul Ariffin Abd Rashid (Universiti Teknikal Malaysia Melaka & Politeknik Seberang Perai, Malaysia); Misida Senon (Universiti Teknikal Malaysia Melaka, Malaysia)

**3:00 *Design of Linear Polarization Antenna for Wireless MIMO Application***

Kamarul Ariffin Abd Rashid (Universiti Teknikal Malaysia Melaka & Politeknik Seberang Perai, Malaysia); Mohd Nor Husain (Universiti Teknikal Malaysia Melaka, Malaysia); Mohamad Zoinol Abidin Bin Abd Aziz (Universiti Teknikal Malaysia Melaka & Hang Tuah Jaya, Malaysia); Muhammad Majdi Saad (UTeM, Malaysia); Misida Senon (Universiti Teknikal Malaysia Melaka, Malaysia); J Sam Hamidon (Universiti Teknikal Malaysia Melaka, Malaysia); Mohamad Tarmizy Ahmad (Mohamad Tarmizy Ahmad, Malaysia)

**3:15 *The Effect of IV Characteristics on Optical Control of SDR Si IMPATT Diode***

Mohd Azlishah Othman (Universiti Teknikal Malaysia Melaka & Microwave Research Group, Malaysia); Yahaya Abd Rahim (Universiti Teknikal Malaysia Melaka, Malaysia); Teh Suriati Mohd Arshad (Universiti Teknikal Malaysia Melaka, Malaysia); Mohd Nor Husain (Universiti Teknikal Malaysia Melaka, Malaysia)

### **3:30 Variable Intrinsic Region in CMOS PIN Photodiode for I-V Characteristic Analysis**

Nur Yashidar Mohd Yasin (Universiti Teknikal Malaysia Melaka, Malaysia); Teh Suriati Mohd Arshad (Universiti Teknikal Malaysia Melaka, Malaysia); Zul Atfyi Fauzan Mohammed Napih (Universiti Teknikal Malaysia Melaka, Malaysia); Mohd Muzafar Ismail (University Tecnical Malaysia Melaka, Malaysia); Mohamad Misran (Universiti Tenikal Malaysia Melaka, Malaysia); Maizatul Alice Meor Said (Universiti Teknikal Malaysia Melaka, Malaysia); Ridza Ramlee (Universiti Teknikal Malaysia Melaka & UTem, Malaysia); Mohd Azlishah Othman (Universiti Teknikal Malaysia Melaka & Microwave Research Group, Malaysia)

### **3:45 Variable Depletion Region in CMOS PN Photodiode for I-V Characteristic Analysis**

Mohd Azlishah Othman (Universiti Teknikal Malaysia Melaka & Microwave Research Group, Malaysia); Teh Suriati Mohd Arshad (Universiti Teknikal Malaysia Melaka, Malaysia); Zul Atfyi Fauzan Mohammed Napih (Universiti Teknikal Malaysia Melaka, Malaysia); Mohd Muzafar Ismail (University Tecnical Malaysia Melaka, Malaysia); Nur Yashidar Mohd Yasin (Universiti Teknikal Malaysia Melaka, Malaysia); Mohamad Misran (Universiti Tenikal Malaysia Melaka, Malaysia); Maizatul Alice Meor Said (Universiti Teknikal Malaysia Melaka, Malaysia); Ridza Ramlee (Universiti Teknikal Malaysia Melaka & UTem, Malaysia)

### **4:00 Power Sensitivity Detection Using 250 nm MOSFET's Gate Length for Sub-Terahertz Detection**

Mohd Azlishah Othman (Universiti Teknikal Malaysia Melaka & Microwave Research Group, Malaysia); Harrison Ian (University of Nottingham, United Kingdom)

### **4:15 Deployment of Optimized Algorithm for MPEG-4 Data Over Wireless Multimedia Sensor Network**

Norleзах Hashim (Universiti Teknikal Malaysia Melaka, Malaysia); Sharifah Hafizah Syed Ariffin (Universiti Teknologi Malaysia, Malaysia); Farizah Yunus (Universiti Teknologi Malaysia, Malaysia); Fakrulradzi Idris (Universiti Teknikal Malaysia Melaka, Malaysia); Norsheila Faisal (Universiti Teknologi Malaysia & Faculty of Electrical Engineering, Malaysia)

## **CO6: Computer 6**

Room: Meeting Room 1

Chairs: Syahril Idris (Universiti Teknikal Malaysia Melaka, Malaysia), Norhayati Mohd Rasip (Faculty of Information Technology and Communication, University of Technical Malaysia Melaka & UTeM, Malaysia)

### ***2:00 Enhancement of Nurse Scheduling Steps Using Particle Swarm Optimisation***

Norhayati Mohd Rasip (Faculty of Information Technology and Communication, University of Technical Malaysia Melaka & UTeM, Malaysia); Abd. Samad Hasan Basari (UTeM, Malaysia); Burairah Hussin (Universiti Teknikal Malaysia Melaka, Malaysia)

### ***2:15 Towards A Exceptional Distributed Database Model for Multi DBMS***

Mohammed Hasan Ali, iii (Universiti Malaysia Pahang & UTeM, Malaysia); Mohd Azlishah Othman (Universiti Teknikal Malaysia Melaka & Microwave Research Group, Malaysia)

### ***2:30 Evaluation of Stereo Matching Algorithms and Dynamic Programming for 3D Triangulation***

Teo Chee Huat (Universiti Teknikal Malaysia Melaka, Malaysia); Nurulfajar Abd Manap (Universiti Teknikal Malaysia Melaka, Malaysia)

### ***2:45 Image Enhancement Filter Evaluation on Corrosion Visual Inspection***

Syahril Idris (Universiti Teknikal Malaysia Melaka, Malaysia); Fairul Azni Jafar (Utsunomiya University, Japan)

### ***3:00 Joint Torque Estimation Model of sEMG Signal for Arm Rehabilitation Device Using Artificial Neural Network Techniques***

Mohd Hafiz Jali (Universiti Teknikal Malaysia Melaka, Malaysia); Tarmizi Izzuddin (Universiti Teknikal Malaysia Melaka, Malaysia); Zul Hasrizal Bohari (Universiti Teknikal Malaysia Melaka, Malaysia); Mohamad Faizal Baharom (University Technical Malaysia Melaka, Malaysia); Mohamad Fani Sulaima (Universiti Teknikal Malaysia Melaka, Malaysia); Hafez Sarkawi (Universiti Teknikal Malaysia Melaka, Malaysia); Wan Mohd Bukhari W. Daud (Universiti Teknikal Malaysia Melaka, Malaysia)

