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Sunday, September 22

Session: W21: Mobile & Computer Communications (Abstracts: page 27)
Room: TAJ MAHAL
Chairs: Jiang Zhu (National University of Defense Technology & IEEE Member, P.R. China)
Siva Priya Thiagarajah (Multimedia University, Malaysia)

- 1:40 Maintaining Image Quality on Wireless Network Standard Using JPEG2000 Transcoding and DWT**
Shakti Awaghad (Research Scholar, Dept of Electronics & Communication Engineering, G. H. Rasoni College of Engg Nagpur, India) ; Sanjay Pokle (Dept. of Electronics & Communication Engineering Ramdeobaba College of Engineering and Management Nagpur, India)
- 2:00 Utilising MIMO for Positioning in Mobile WiMAX Systems ******
Azmi Awang Md Isa (Universiti Teknikal Malaysia Melaka, Malaysia); Mohd Saari Mohamad Isa (Universiti Teknikal Malaysia Melaka, Malaysia); Mohd Shahril Izuan Mohd Zin (Universiti Teknikal Malaysia Melaka, Malaysia); Zahriladha Zakaria (FKEKK, Universiti Teknikal Malaysia Melaka, Malaysia); Nor Zaidi Haron (Universiti Teknikal Malaysia Melaka, Malaysia); Muhammad Othman (Universiti Teknikal Malaysia Melaka, Malaysia)
- 2:20 User Data Rate Enhancement Using Heterogeneous LTE-802.11n Offloading in Urban Area**
Siva Priya Thiagarajah (Multimedia University, Malaysia); Alvin Kee Ngoh Ting (MIMOS, Malaysia); David Chieng (MIMOS & Wireless Cluster, Malaysia); Mohamad Yusoff Alias (Multimedia University & Academic Honorary Visitor at University of Manchester, Malaysia); Su Wei Tan (Multimedia University, Malaysia)
- 2:40 Reducing Collision Probability with Multihop Diversity for Vehicle-to-Roadside Networks**
Refik Caglar Kizilirmak (KTO Karatay University, Turkey); Mastaneh Torkamani-Azar (KTO Karatay University, Turkey)
- 3:00 Fairness of Radio Resource Partitioning for Macrocell and Femtocell Networks**
Mastura Rosdi (Universiti Teknologi MARA, Malaysia); Azita Laily Yusof (Universiti Teknologi Mara, Malaysia); Mohd Tarmizi Ali (Universiti Teknologi Mara, Malaysia); Norsuzila Ya'acob (Universiti Teknologi Mara, Malaysia); Melati Ismail (Universiti Teknologi Mara, Malaysia); Muhammad Aiman Zainali (Universiti Teknologi MARA, Malaysia); Mohd Saufi Bin Haji Nasro Ali (Universiti Teknologi MARA, Malaysia); Basyirah Abu Bakar (Universiti Teknologi MARA, Malaysia)
- 3:20 Tea Break**
- 3:40 Investigate the Performance Metrics of Mobile Ad Hoc Networks (MANET)**

Norsuzila Ya'acob (Universiti Teknologi Mara, Malaysia); Azita Laily Yusof (Universiti Teknologi Mara, Malaysia); Mohd Tarmizi Ali (Universiti Teknologi Mara, Malaysia)

- 4:00 Formal Specification of Web Services Composition**
Fayçal Bachtarzi (University of Constantine 2 & MISC Laboratory, Algeria); Allaoua Chaoui (University of Constantine, Algeria)
- 4:20 Characterization of OR Logic Gate Based on SOA-NOLM**
Nur Izzati Ab Rahman (University Malaysia Perlis, Malaysia) ; Mohamad Halim Abd. Wahid (University Malaysia Perlis, Malaysia) ; Mohd Shahidan Mohamad (University Malaysia Perlis, Malaysia) ; Nor Roshidah Yusof (University Malaysia Perlis, Malaysia)
- 4:40 Stochastic Gradient Adaptive Beamforming in DSSS Receiver Employing Antenna Array**
Shilian Wang (National University of Defence Technology, P.R. China); Jiang Zhu (National University of Defense Technology & IEEE Member, P.R. China)
- 5:00 Resource Allocation for Uplink M2M Communication: A Game Theory Approach**
Hashim Safdar (Universiti Teknologi Malaysia & IEEE Student Membership, Malaysia); Norsheila Faisal (Universiti Teknologi Malaysia & Faculty of Electrical Engineering, Malaysia); Rahat Ullah (Universiti Teknologi Malaysia (UTM), Malaysia); Wajahat Maqbool (Universiti Teknologi Malaysia, Malaysia); Faiz Asraf Saparudin (Universiti Teknologi Malaysia, Malaysia); Zubair Khalid (Universiti Teknologi Malaysia (UTM), Malaysia); Adnan Shahid Khan (Universiti Teknologi Malaysia, Malaysia)
- 5:20 Efficient Handover Algorithm Using Fuzzy Logic Underlay Power Sharing for Cognitive Radio Wireless Network**
Mardeni Roslee (MMU, Malaysia); Khairil Anuar (Multimedia Universiti, Malaysia); Hafidzoh Mukhtar (MMU, Malaysia); Mohamad Yusoff Alias (Multimedia University & Academic Honorary Visitor at University of Manchester, Malaysia); Hafizal Mohamad (MIMOS Berhad, Malaysia); Nordin Ramli (MIMOS Berhad, Malaysia)
- 6:30 WWR: Welcome Reception**

Monday, September 23

Session: W22a: Wireless Communications (Abstracts: page 30)
Room: TAJ MAHAL
Chairs: Ehab Mahmoud Mohamed (Aswan University, Egypt)
Cenk M. Yetis (Mevlana University, Turkey)

- 8:20 Reduction of Interference with Linear Equalizer Using Quarter Subcarrier Mapping Scheme**
Azlina Idris (Universiti Teknologi MARA, Malaysia); Norhayati Abdullah (Universiti Teknologi Mara & Faculty of Electrical Engineering, Malaysia); Darmawaty Mohd Ali (Universiti Teknologi Mara & Faculty of Electrical Engineering, Malaysia); Norsuzila Ya'acob (Universiti Teknologi Mara & Faculty of Electrical Engineering, Malaysia); Hanis Adiba Mohamad (Universiti Teknologi Mara & Faculty of Electrical Engineering, Malaysia)
- 8:40 A Study of Incremental Cryptography for Security Schemes in Mobile Cloud Computing Environments**
Abdul Nasir Khan (University of Malaya, Malaysia); Miss Laiha Mat Kiah (Universiti Malaya, Malaysia); Sajjad Ahmad Madani (COMSATS Institute of Information Technology, Pakistan); Atta ur Rehman Khan (University of Malaya & COMSATS Institute of Information Technology, Malaysia); Samee U. Khan (North Dakota State University, USA)
- 9:00 Evaluating the IEEE 802.15.4a UWB Physical Layer for WSN Applications**
Eddy Irwan Shah Saadon (Universiti Tun Hussein Onn Malaysia, Malaysia); Jiwa Abdullah (University Tun Hussein Onn Malaysia, Malaysia); Nurul Huda Ismail (UTHM, Malaysia)
- 9:20 ALARM: An Energy Aware Sleep Scheduling Algorithm for Lifetime Maximization in Wireless Sensor Networks**
Dame Diongue (University Gaston Berger of Saint Louis, Senegal); Thiare Ousmane (Gaston Berger University of Saint-Louis, Senegal)
- 9:40 Innovations to Improve Wireless Mesh Network Performance - A Survey**
Cheong Loong Chan (Universiti Tunku Abdul Rahman, Malaysia); Sheng Chyan Lee (Universiti Tunku Abdul Rahman, Malaysia); Kee Choon Yeong (Tunku Abdul Rahman University, Malaysia); Vengadasalam Jeewa (Tun Abdul Razak Broadcast & Information Institute, Malaysia)
- 10:00 Affine-Based Time-Scale Channel Simulator for Time-Varying Wireless Communication Environment**
Nor Aswani Mamat (Universiti Teknologi Malaysia, Malaysia); Razali Ngah (Universiti Teknologi Malaysia, Malaysia); Uche A.K. Chude Okonkwo (Universiti Teknologi Malaysia, Malaysia); Asmi Romli (Universiti Malaysia Perlis, Malaysia); Raimi Dewan (Universiti Teknologi Malaysia, Malaysia)
- 10:20 Tea Break**

- 10:40 Sub-Stream Fairness and Numerical Correctness in MIMO Interference Channels**
Cenk M. Yetis (Mevlana University, Turkey); Yong Zeng (Nanyang Technological University, Singapore); Kushal Anand (Nanyang Technological University, Singapore); Yong Liang Guan (Nanyang Technological University, Singapore); Erry Gunawan (, Singapore)
- 11:00 Low Complexity Channel Estimation Technique for MIMO-Constant Envelope Modulation**
Ehab Mahmoud Mohamed (Aswan University, Egypt)
- 11:20 In-band Amplify and Forward Cooperative Diversity for the Orthogonal Complementary Coded CDMA Networks**
Refik Caglar Kizilirmak (KTO Karatay University, Turkey); Emre Gonultas (KTO Karatay University, Turkey)
- 11:40 Relay Placement for Inter-Band Carrier Aggregation with Asymmetrical Coverage**
Syamsul Bahri Mohamad (Universiti Teknologi Malaysia, Malaysia) ; Chee Yen Leow (Universiti Teknologi Malaysia, Malaysia) ; Tharek Abdul Rahman. (Universiti Teknologi Malaysia, Malaysia)
- 12:00 A Complexity Efficient Equalization Technique for MIMO-Constant Envelope Modulation**
Ehab Mahmoud Mohamed (Aswan University, Egypt)
- 12:20 Improved Pilot-based LS and MMSE Channel Estimation Using DFT for OFDM Systems**
Abid Khan (Universti Technology Petronas, Malaysia); Varun Jeoti (University Teknologi PETRONAS, Malaysia) ; M. A. Zakariya (Universti Technology Petronas, Malaysia)

Session: W22p: Wireless Communications & Protocols (Abstracts: page 34)
Room: MACHU PICCHU
Chairs: Ho Chiung Ching (Multimedia University, Malaysia)
Shilian Wang (National University of Defence Technology, P.R. China)

- 1:40 The Research on Mobile IPv6 Security Features**
Feng Xiaorong (China Electronic Product Reliability and Environmental Testing Research Institute, P.R. China); Lin Jun (China Electronic Product Reliability and Environmental Testing Research Institute, P.R. China); Jia Shizhun (China Electronic Product Reliability and Environmental Testing Research Institute, P.R. China)
- 2:00 Extended Modulation Classification Scheme Based on Approximate Entropy**
Fu Yongming (School of Electronic Science and Engineering, National University of Defense Technology, P.R. China); Chen Liang (National University of Defense Technology, P.R. China); Jiang Zhu (National University of Defense Technology & IEEE Member, P.R. China); Shilian Wang (National University of Defence Technology, P.R. China)
- 2:20 Theoretical Noise Performance of SIMO-DCSK Communication Schemes**
Na You (Hunan University, P.R. China); Yi Bo (HuNan, P.R. China); Shilian Wang (National University of Defence Technology, P.R. China)
- 2:40 Fast Time-Varying Channels in MIMO-OFDM System Using Different Diversity Technique**
Azlina Idris (Universiti Teknologi MARA, Malaysia) ; Manaal Sabry (Universiti Teknologi MARA, Malaysia) ; Nur Idora Abdul Razak (Universiti Teknologi MARA, Malaysia) ; Azita Laily Yusof (Universiti Teknologi MARA, Malaysia)
- 3:00 Mutually Shared Bandwidth Allocation Mechanism in IEEE 802.16e**
Niharika Kumar (RNSIT, India); Siddu Algur (Rani Channamma University, India)
- 3:20 Tea Break**
- 3:40 A Taxonomy of Congestion Control Techniques for TCP in Wired and Wireless Networks**
Lee Kho (Japan Advanced Institute Science and Technology & JAIST, Japan); Xavier Defago (Japan Advanced Institute of Science and Technology, Japan); Azman Osman Lim (Japan Advanced Institute of Science and Technology (JAIST) & School of Information Science, Japan); Yasuo Tan (JAIST, Japan)
- 4:00 ICT2TSK: An Improved Clustering Algorithm for WSN Using a Type-2 Takagi-Sugeno-Kang Fuzzy Logic System**
Feng Zhang (BeiHang University, P.R. China); Qi-Ye Zhang (Beihang University, P.R. China); Ze-Ming Sun (BeiHang University, P.R. China)
- 4:20 Distributed Connectivity Restoration Using Cognitive Relay Nodes Positioning in Damaged Wireless Sensor Network**

Najam Ul Hasan (Sejong University, Korea); Waleed Ejaz (Sejong University & IQRA University, Korea); Mahin Atiq (Sejong University, Korea); Hyung Seok Kim (Sejong University, Korea)

4:40 Realizing the Potential of Mobile Devices as Experimental Devices: Human Computer Interface and Performance Considerations

Ho Chiung Ching (Multimedia University, Malaysia); Eswaran Eswaran (Multimedia University, Malaysia)

Session: W32p: RF, Microwave, Antenna and Radio Propagation (Abstracts: page 37)
Room: MACHU PICCHU
Chairs: Rusnani Ariffin (Universiti Teknologi MARA, Malaysia)
Mohd Saari Mohamad Isa (Universiti Teknikal Malaysia Melaka, Malaysia)

1:40 An Experimental Thickness of Microwave Absorber Effect Absorption in Ku-band Frequency

Lee Yeng Seng (University Malaysia Perlis, Malaysia); Mohd Fareq Abd Malek (Universiti Malaysia Perlis, Malaysia); Cheng Ee Meng (Universiti Malaysia Perlis, Malaysia); Wei Wen Liu (Universiti Malaysia Perlis, Malaysia); Wee Fwen Hoon (Universiti Malaysia Perlis (UniMAP), Malaysia); Muhammad Nadeem Iqbal (University Malaysia Perlis, Malaysia); Liyana Zahid (Universiti Malaysia Perlis, Malaysia); Mohd Nazri A. Karim (Universiti Malaysia Perlis & School of Computer and Communication, Malaysia); Mohd Fariz Haji Abd Malek (MISC Berhad, Japan)

2:00 A Study of Dielectric Constant and Loss Tangent for Leucaena Leucocephala Wood Plastic Composite (WPC) Substrate

Ahmad Azlan Ab Aziz (Universiti Teknologi Mara & UiTM, Malaysia); Mohd Tarmizi Ali (Universiti Teknologi Mara, Malaysia); Zaiki Awang (Universiti Teknologi MARA, Malaysia); Mohammad kamal ariffin Badrun (Sultan Salahuddin Abdul Aziz Shah Polytechnic, Malaysia)

2:20 A Novel Technique of Controlling Signal Propagation Within Array Elements Using Switchable Miniaturized Electromagnetic Band Gap

Mohd Saari Mohamad Isa (Universiti Teknikal Malaysia Melaka, Malaysia); Richard Langley (University of Sheffield, United Kingdom); Salam Khamas (University of Sheffield, United Kingdom); Azmi Awang Md Isa (Universiti Teknikal Malaysia Melaka, Malaysia); Zahriladha Zakaria (FKEKK, Universiti Teknikal Malaysia Melaka, Malaysia); Mohd Shahril Izuan Mohd Zin (Universiti Teknikal Malaysia Melaka, Malaysia); Nor Zaidi Haron (Universiti Teknikal Malaysia Melaka, Malaysia) ; A.Ahmad (Universiti Teknikal Malaysia Melaka, Malaysia)

2:40 Initial Assessment of Radar Reflectivity-Rainfall Rate, Z-R Relationships for Moderate Rain Events in Malaysia

Nuurul Huda Mohd Sobli (International Islamic University Malaysia, Malaysia); Ahmad Fadzil Ismail (International Islamic University Malaysia, Malaysia); Farah Nadia Md. Isa (International Islamic University Malaysia, Malaysia); Hasmah Mansor (International Islamic University Malaysia (IIUM), Malaysia)

3:00 The Effect of Rain Attenuation on S-Band Terrestrial Links

Siva Priya Thiagarajah (Multimedia University, Malaysia); Shamini Pillay (Multimedia University, Malaysia); Shalini Darmaraju (Faculty of Engineering, Malaysia); Rajamani Subramanian (Faculty of Engineering, Malaysia); Michelle Foo (Multimedia University, Malaysia)

3:20 Tea Break

3:40 Ground Penetrating Radar: Antenna for Buried Object Detection

Mohd Nazri A. Karim (Universiti Malaysia Perlis & School of Computer and Communication, Malaysia); Mohd Fareq Abd Malek (Universiti Malaysia Perlis, Malaysia); Faizal Jamlos (Universiti Malaysia Perlis, Malaysia); Norshafinash Saudin (Universiti Malaysia Perlis, Malaysia)

4:00 Compact Microstrip S-Band 90° Hybrid Coupler

Yi Lung Then (Universiti Teknologi Malaysia, Malaysia); You Kok Yeow (, Malaysia); Mohamad Ngasri Dimon (Universiti Teknologi Malaysia, Malaysia); Jaw Chung Chong (Universiti Teknologi Malaysia, Malaysia); Tan Tian-Swee (Universiti Teknologi Malaysia, Malaysia)

4:20 Cross-section Absorption Properties for Broadband Microwave

Rusnani Ariffin (Universiti Teknologi MARA, Malaysia) ; Hasnain Abdullah (Universiti Teknologi MARA, Malaysia) ; Asmalia Zanal (Universiti Teknologi MARA, Malaysia) ; Mohd Nasir Taib (Universiti Teknologi MARA, Malaysia) ; Farah Diyana (Universiti Teknologi MARA, Malaysia) ; Mahanim Omar (Department of Science, Computer & Mathematics Universiti Teknologi MARA, Pulau Pinang, Malaysia)

4:40 A Compact 3-dB Directional Coupler Using Dual Transmission Lines on Dual Substrate Layer for Butler Matrix Application

Siti Fatimah Ausordin (Universiti Teknologi Malaysia, Malaysia); Sharul Kamal A. Rahim (Universiti Teknologi Malaysia, Malaysia); Norhudah Seman (Universiti Teknologi Malaysia, Malaysia); Raimi Dewan (Universiti Teknologi Malaysia, Malaysia); Bashir Saad (Universiti Teknologi Malaysia, Malaysia)

5:00 40GHz Planar Filter Realization on Duroid

Azah Syafiah Mohd Marzuki (TM R&D Sdn Bhd, Malaysia); Surati Selamat (TM R&D Sdn Bhd, Malaysia); Amran Naemat (TM R&D Sdn Bhd, Malaysia); Khaidir Khalil (TM R&D Sdn Bhd, Malaysia); Azlinda Tee Md Azlan Tee (TM R&D Sdn Bhd, Malaysia); Young Chul Lee (Mokpo National University (MMU), Korea)

5:20 Microstrip Ring Resonator Based Sensing Technique for Meat Quality

Muhammad Taha (Universiti Teknologi PETRONAS, Malaysia); Peng Wen Wong (Universiti Teknologi PETRONAS, Malaysia); Yen Cheong Lee (Universiti Teknologi Petronas, Malaysia); M Azman Zakariya (Universiti Teknologi PETRONAS, Malaysia)

5:40 Aperture Coupled Cylindrical Dielectric Resonator Antenna Design with Box Shaped Reflector

S. M. Ali (Universiti Teknologi PETRONAS, Malaysia); M. A. Zakariya (Universiti Teknologi PETRONAS, Malaysia); Z. Baharudin (Universiti Teknologi PETRONAS, Malaysia); M. H. Md. Khir (Universiti Teknologi PETRONAS, Malaysia); A. A. Baba (Universiti Teknologi PETRONAS, Malaysia); J. J. ADZ (Universiti Teknologi PETRONAS, Malaysia)

8:00 PM - 10:30 PM GD: Gala Dinner

Tuesday, September 24

Session: W23a: Microwave, Antenna and Radio Propagation (Abstracts: page 40)
Room: TAJ MAHAL
Chairs: Sharul Kamal A. Rahim (Universiti Teknologi Malaysia, Malaysia)
Zahriladha Zakaria (FKEKK, Universiti Teknikal Malaysia Melaka, Malaysia)

- 8:20 Design of Dual-Band Monopole Antenna for Energy Harvesting System**
Zahriladha Zakaria (FKEKK, Universiti Teknikal Malaysia Melaka, Malaysia); Nur Aishah Zainuddin (FKEKK, UTeM, Malaysia); Mohamad Zoinol Abidin Bin Abd Aziz (Universiti Teknikal Malaysia Melaka & Hang Tuah Jaya, Malaysia); Mohd Nor Husain (Universiti Teknikal Malaysia Melaka, Malaysia); Mohamad Ariffin Mutalib (Universiti Teknikal Malaysia Melaka & Hang Tuah Jaya, Malaysia); W. Y. Sam (FKEKK, Universiti Teknikal Malaysia Melaka, Malaysia)
- 8:40 Design of Generalized Chebyshev Lowpass Filter with Defected Stripline Structure (DSS)**
Zahriladha Zakaria (FKEKK, Universiti Teknikal Malaysia Melaka, Malaysia); Mohamad Ariffin Mutalib (Universiti Teknikal Malaysia Melaka & Hang Tuah Jaya, Malaysia); Mohd Saari Mohamad Isa (Universiti Teknikal Malaysia Melaka, Malaysia); Azmi Awang Md Isa (Universiti Teknikal Malaysia Melaka, Malaysia); Nur Aishah Zainuddin (FKEKK, UTeM, Malaysia)
- 9:00 Design of Stacked Wafers AMC At 920 MHz for Metallic Object Detection in RFID Application**
Eryana Eiyda Hussin (Universiti Teknikal Malaysia Melaka, Malaysia); Maisarah Abu (Universiti Teknikal Malaysia Melaka, Malaysia); Norhidayah Mohamad Yatim (Universiti Teknikal Malaysia Melaka, Malaysia); Fauzi Mohd Johar (Universiti Teknikal Malaysia Melaka, Malaysia); Rose Farahiyah Munawar (Universiti Teknikal Malaysia Melaka, Malaysia); Abdul Rani Othman (, Malaysia)
- 9:20 10 GHz Multilayer Antenna Proximity Coupled Feed Using Low Temperature Co-Fired Ceramic (LTCC) Technology**
Nur Hidayah Mohd Sukaimi (Universiti Teknologi MARA, Malaysia); Mohd Tarmizi Ali (Universiti Teknologi Mara, Malaysia); Suhaila Subahir (Universiti Teknologi MARA, Malaysia); Jumaat Hadi (UiTM SHAH ALAM, Malaysia); Najwa Mohd Faudzi (Universiti Teknologi Mara, Malaysia)
- 9:40 Multiband Reconfigurable Antenna for 2.4 GHz, 3.5 GHz & 5.2 GHz Applications**
Izni Husna Idris (Universiti Teknologi Malaysia, Malaysia); Mohamad Rijal Hamid (Universiti Teknologi Malaysia, Malaysia); Mohd Haizal Jamaluddin (Universiti Teknologi Malaysia, Malaysia); Mohamad Kamal A. Rahim (Universiti Teknologi Malaysia, Malaysia); Huda A. Majid (Universiti Teknologi Malaysia, Malaysia)

- 10:00 Performance of an Aperture Coupled Microstrip Antenna on LTCC At 5.8GHz**
Jumaat Hadi (UiTM SHAH ALAM, Malaysia); Mohd Tarmizi Ali (Universiti Teknologi Mara, Malaysia); Suhaila Subahir (Universiti Teknologi MARA, Malaysia); Nur Hidayah Mohd Sukaimi (Universiti Teknologi MARA, Malaysia) ; R.Alias (TM R&D Sdn Bhd, TM Innovation Centre Cyberjaya Selangor)
- 10:20 Tea Break**
- 10:40 Crescent Moon-shaped Artificial Magnetic Conductor Ground Plane for Patch Antenna Application**
Raimi Dewan (Universiti Teknologi Malaysia, Malaysia); Sharul Kamal A. Rahim (Universiti Teknologi Malaysia, Malaysia); Siti Fatimah Ausordin (Universiti Teknologi Malaysia, Malaysia); Muhammad Zairil Muhammad Nor (Universiti Teknologi Malaysia, Malaysia); Bashir Saad (Universiti Teknologi Malaysia, Malaysia)
- 11:00 Aperture Coupled Microstrip Antenna Array Integrated with DGS and Parasitic Elements**
Hafiza Alias (Universiti Teknologi Mara, Malaysia); Mohd Tarmizi Ali (Universiti Teknologi Mara, Malaysia); Suhaila Subahir (Universiti Teknologi MARA, Malaysia); Norsuzila Ya'acob (Universiti Teknologi Mara, Malaysia); Mohd Aizat Sulaiman (Universiti Teknologi MARA, Malaysia)
- 11:20 Design and Fabrication of X-Band Substrate Integrated Waveguide Directional Coupler**
Siti Sabariah Sabri (Universiti Teknikal Malaysia Melaka, Malaysia); Badrul Hisham Ahmad (Universiti Teknikal Malaysia Melaka, Malaysia); Abdul Rani Othman (, Malaysia)
- 11:40 Design Minkowski Shaped Patch Antenna with Rectangular Parasitic Patch Elements for 5.8 GHz Applications**
Nornikman Hassan (Universiti Teknikal Malaysia Melaka, Malaysia); Badrul Hisham Ahmad (Universiti Teknikal Malaysia Melaka, Malaysia); Mohamad Zoinol Abidin Bin Abd Aziz (Universiti Teknikal Malaysia Melaka & Hang Tuah Jaya, Malaysia); Abdul Rani Othman (, Malaysia); Mohd Azlishah Othman (University of Nottingham & Photonic and RF Engineering Group, United Kingdom); Mohd Fareq Abd Malek (Universiti Malaysia Perlis, Malaysia)
- 12:00 Double C-Shaped Monopole Antenna Array for Dual Band WLAN Application**
Mohd Fareq Abd Malek (Universiti Malaysia Perlis, Malaysia); Nur Aishah Zainuddin (FKEKK, UTeM, Malaysia); Mohamad Zoinol Abidin Bin Abd Aziz (Universiti Teknikal Malaysia Melaka & Hang Tuah Jaya, Malaysia); Nornikman Hassan (Universiti Teknikal Malaysia Melaka, Malaysia); Badrul Hisham Ahmad (Universiti Teknikal Malaysia Melaka, Malaysia); Mohd Fariz Haji Abd Malek (MISC Berhad, Japan); Mohd Azlishah Othman (University of Nottingham & Photonic and RF Engineering Group, United Kingdom)
- 12:20 A CPW Archimedean Spiral Antenna with Band Notch Characteristics Using Slotted Technique**

Fadalia Dina Dahalan (Universiti Teknologi Malaysia, Malaysia); Sharul Kamal A. Rahim (Universiti Teknologi Malaysia, Malaysia); Mohamad Rijal Hamid (Universiti Teknologi Malaysia, Malaysia); Muhammad Zairil Muhammad Nor (Universiti Teknologi Malaysia, Malaysia); Mohd Subri Abdul Rani (Universiti Teknologi Malaysia, Malaysia); Siti Fatimah Ausordin (Universiti Teknologi Malaysia, Malaysia)

Session: W33a: Services & Applications/Embedded Systems, Platforms and Technology (Abstracts: page 44)

Room: MACHU PICCHU

Chairs: Kian Meng Yap (Sunway University, Malaysia)
Maria Calle (Universidad del Norte, Colombia)

8:20 Embedded System for Portable Lecture Recording System: Design and Development

Iszaidy Ismail (Universiti Malaysia Perlis, Malaysia); Mohd Jais (School of Computer and Communication Engineering, Universiti Malaysia Perlis (UNIMAP), Malaysia); Badlishah R Ahmad (Universiti Malaysia Perlis, Malaysia); N.F Kahar (Universiti Malaysia Perlis, Malaysia); Mostafijur Rahman (Universiti Malaysia Perlis, Malaysia); F.A.A Fuad (School of Computer and Communication Engineering, Universiti Malaysia Perlis (UNIMAP), Malaysia)

8:40 3D Smart User Interactive System with Proprioceptive Orientation Feedback by Using Disparity Compassing

Kok Seng Eu (Sunway University, Malaysia); Tiam Hee Tee (Sunway University, Malaysia); Kian Meng Yap (Sunway University, Malaysia); Lee Yoon Ket (College Tunku Abdul Rahman, Malaysia)

9:00 Antenna Placement for Landslide Monitoring Using Analytical Hierarchy Process (AHP) and Geographical Information System (GIS)

Intan Shafinaz Mustafa (Universiti Tenaga Nasional, Malaysia); Norashidah Din (Universiti Tenaga Nasional, Malaysia); Rohayu Che Omar (Universiti Tenaga Nasional, Malaysia); Nor Hazwani Nor Khalid (Universiti Tenaga Nasional, Malaysia); Aiman Ismail (Universiti Tenaga Nasional, Malaysia)

9:20 Smart Street Lighting System

Yusnani Mohd Yussoff (University Technology Mara, Malaysia); Roszainiza Rosli (University Technology Mara, Malaysia); Mohd Uzir Kamaluddin (Universiti Teknologi Mara, Malaysia); Mustaffa Samad (University Technology Mara, Malaysia)

9:40 Dimmable WiFi-Connected LED Driver with Android Based Remote Control

Kok-Hua Teng (Multimedia University, Malaysia); Zi-Yi Lam (Multimedia University, Malaysia); Sew-Kin Wong (Multimedia University, Malaysia)

10:00 Qualitative Study to Identify Icons Characteristics on Mobile Phones Applications Interfaces

Syed Ghayas (University of Technology Petronas, Malaysia); Suziah Sulaiman (Universiti Teknologi PETRONAS, Malaysia); Muzafar Khan (COMSATS Institute of Information Technology, Malaysia); Jafreezal Jaafar (Universiti Teknologi PETRONAS, Malaysia)

10:20 Tea Break

- 10:40 Energy-Efficient k-Coverage Scheduling Algorithm for Sensor Networks with Adjustable Sensing Range**
Ahmed Al-Shalabi (University Technology MARA, Malaysia); Mazani Manaf (University Teknologi MARA, Malaysia)
- 11:00 Comparison of Orientation-Independent-based Movement Recognition System Using Classification Algorithms**
Sian Lun Lau (Sunway University, Malaysia)
- 11:20 OTS-WSN: A Wireless Sensor Network Implemented with Off-The-Shelf Components**
Eduardo Chain (Universidad del Norte, Colombia); Ruben Sara (Universidad del Norte, Colombia); Juan Arias (Universidad del Norte, Colombia); Enrique Escorcia (Universidad del Norte, Colombia); Maria Calle (Universidad del Norte, Colombia)
- 11:40 Effect of a Discrete PIN Diode on Defected Ground Structure**
Mohammad Hairi Abdul Hadi (Universiti Teknikal Malaysia Melaka, Malaysia); Badrul Hisham Ahmad (Universiti Teknikal Malaysia Melaka, Malaysia); Noor Azwan Shairi (Universiti Teknikal Malaysia Melaka, Malaysia); Peng Wen Wong (Universiti Teknologi PETRONAS, Malaysia)
- 12:00 Fully Integrated, Highly Linear, Wideband LNA in 0.13 μ m CMOS Technology**
Hira Shumail (NEDUET, Pakistan); Maliha Nisar (NEDUET, Pakistan); Tooba Muzaffar (NEDUET, Pakistan); Sana Arshad (NED University of Engineering & Technology, Pakistan); Qamar-ul Wahab (Linkoping University, Sweden)
- 12:20 Analysis and Design of Dielectric Loaded Parallel Coupled Microstrip Quadrature Coupler**
Muhammad Ashraf (College of Engineering, King Saud University, Saudi Arabia); Khalid Jamil (PSATRI - KSU, Saudi Arabia); Abdel Sebak (Concordia University, Canada); Zeyad Alhekail (King Saud University, Saudi Arabia); Majeed Alkanhal (King Saud University, Saudi Arabia)

Session: W23p: [ISWTA] Antenna and Radio Propagation (Abstracts: page 48)
Room: TAJ MAHAL
Chairs: Faizal Jamlos (Universiti Malaysia Perlis, Malaysia)
Maged Aldhaeabi (King Saud Universtiy, Saudi Arabia)

- 1:40 Design of UWB Antenna Array for Through-Wall Detection System**
Ayman Elboushi (Concordia University, Canada); Desmond Joanes (Concordia University & National Bank of Canada, Canada); Mustapha Derbas (Concordia University, Canada); Sandy Khaled (Concordia University, Canada); Ahsun Zafar (Concordia University, Canada); Soukaina Attabibi (Concordia University, Canada); Abdel R. Sebak (Concordia University, Canada)
- 2:00 Development of UWB Antenna Array for Hyperthermia Treatment**
Maged Aldhaeabi (king Saud Universtiy, Saudi Arabia); Mohammed Alzabidi (King Saud University, Saudi Arabia); Ibrahim Elshafiey (King Saud University, Saudi Arabia); Abdel Fattah Sheta (King Saud University, College of Engineering, Saudi Arabia)
- 2:20 High Gain and Wide-Band Aperture-Coupled Microstrip Patch Antenna with Mounted Horn Integrated on FR4 for 60 GHz Communication Systems**
Waleed Tariq Sethi (King Saud University, Saudi Arabia); Hamsakutty Vettikalladi (King Saud University, Saudi Arabia); Baber Minhas (King Saud University, Saudi Arabia); Majeed Alkanhal (King Saud University, Saudi Arabia)
- 2:40 Investigation of Reflection Area on Strategic Reflectarray Resonant Elements**
Arslan Kiyani (Universiti Tun Hussein Onn Malaysia (UTHM) & Wireless and Radio Science Centre (WARAS), Malaysia); Muhammad Yusof Ismail (Universiti Tun Hussein Onn Malaysia, Malaysia)
- 3:00 Switchable Parasitic Patch Antenna with Beam Steering for WiMAX Application**
Muzammil Jusoh (Universiti Malaysia Perlis & School of Computer and Communication Engineering, Malaysia); Faizal Jamlos (Universiti Malaysia Perlis, Malaysia); Thennarasan Sabapathy (University Malaysia Perlis & Advanced Communication Engineering Center, Malaysia); Mohd Jais (School of Computer and Communication Engineering, Universiti Malaysia Perlis (UNIMAP), Malaysia); M.R.Kamarudin (Wireless Communication Centre, Faculty of Electrical Engineering Universiti Teknologi Malaysia); N.M.Nawawi (University Malaysia Perlis & Advanced Communication Engineering Center, Malaysia)
- 3:20 Tea Break**
- 3:40 A Reconfigurable Microstrip Rectangular Parasitic Array Antenna**
Thennarasan Sabapathy (University Malaysia Perlis & Advanced Communication Engineering Center, Malaysia); Muzammil Jusoh (Universiti Malaysia Perlis & School of Computer and Communication Engineering, Malaysia); Mohd Jais (School of Computer and Communication Engineering, Universiti Malaysia Perlis)

(UNIMAP), Malaysia); Faizal Jamlos (Universiti Malaysia Perlis, Malaysia); R. B. Ahmad (University Malaysia Perlis & Advanced Communication Engineering Center, Malaysia)

- 4:00 1.575 GHz Dual-Polarization Textile Antenna (DPTA) for GPS Application**
Mohd Jais (School of Computer and Communication Engineering, Universiti Malaysia Perlis (UNIMAP), Malaysia); Faizal Jamlos (Universiti Malaysia Perlis, Malaysia); Muzammil Jusoh (Universiti Malaysia Perlis & School of Computer and Communication Engineering, Malaysia); Thennarasan Sabapathy (University Malaysia Perlis & Advanced Communication Engineering Center, Malaysia); Iszaidy Ismail (Universiti Malaysia Perlis, Malaysia); M. K. A. Nayan (University Malaysia Perlis & Advanced Communication Engineering Center, Malaysia); A. Shahadah (Universiti Malaysia Perlis, Malaysia); Hazliza A. Rahim (Universiti Malaysia Perlis, Malaysia); F. A. A. Fuad (Universiti Malaysia Perlis, Malaysia)
- 4:20 Adaptive Zero-Interference of Compact Reconfigurable Antenna for GPS Application**
Mohd Khairul Azhar Nayan (Universiti Malaysia Perlis, Malaysia); Faizal Jamlos (Universiti Malaysia Perlis, Malaysia); Mohd Jais (School of Computer and Communication Engineering, Universiti Malaysia Perlis (UNIMAP), Malaysia); M. Jusoh (School of Computer and Communication Engineering, Universiti Malaysia Perlis (UNIMAP), Malaysia); T. Sabapaty (School of Computer and Communication Engineering, Universiti Malaysia Perlis (UNIMAP), Malaysia)
- 4:40 A Compact RLSA Antenna with Polypropylene Composite**
Faizal Jamlos (Universiti Malaysia Perlis, Malaysia); W.A.W. Muhamad (Universiti Malaysia Perlis, Malaysia); Tharek A. Rahman (Universiti Malaysia Perlis, Malaysia)
- 5:00 The Effects of Air-Gap on Spider Radial Line Slot Array (SRLSA) Antenna for Point to Point Application**
Faizal Jamlos (Universiti Malaysia Perlis, Malaysia); W.A.W. Muhamad (Universiti Malaysia Perlis, Malaysia); Tharek A. Rahman (Universiti Malaysia Perlis, Malaysia)
- 5:20 Multiple-Rings Filter with Dissociated Transmission Zeros**
Mohd Khairul Mohd Salleh (Universiti Teknologi MARA & Microwave Technology Centre, Malaysia); Gaëtan Prigent (LAPLACE & GRE, France); Olivier Pigaglio (Institut National Polytechnique de Toulouse, INPT-ENSEEIH, France)