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(ISWTA 2011)

**Langkawi, Malaysia
25-28 September 2011**



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Monday, September 26

H21 : Passive & Active Devices

Room : Emerald

Chairs: Rui Ma (Nokia Siemens Networks, P.R. China)

Sohiful Anuar Bin Zainol Murad (Universiti Malaysia Perlis, Malaysia)

- 8:20 A Design of 5.2 GHz CMOS Up-conversion Mixer with IF Input Active Balun
S. A. Zainol Murad, M. F. Ahmad, M. Mazalan, M. Mohamad Shahimin, S. A. Abdul Rais and M. N. Norizan *****
- 8:40 New Positive/Negative Floating Inductance Simulation Using OTA and CCCII
M. Kumngern *****
- 9:00 Second Order Dual-path Coupled Line Filter
S. A. Nordin and M. K. Mohd Salleh *****
- 9:20 A Novel Concept for First-Pass Design of RF Power Amplifiers for Wireless Communications
R. Ma, G. Kompa and A. Bangert *****
- 9:40 Tuning Circuit Using Varactor Diode for Tunable Bandstop Resonator
M. A. Abdul Latip, M. K. Mohd Salleh and I. Pasya *****
- 10:00 Realization of a Compact Branch Line
S.N.D. Azizi, S. K. A. Rahim, M.I. Sabran *****
- 10:20 Morning Break**
- 10:40 Design of Third Order Wideband Bandpass Filter Using Dual-path Coupled Lines
S. A. Nordin and M. K. Mohd Salleh *****
- 11:00 Impacts of Impedance Mismatch on the Performance of RF Mixers
R. Salmeh *****
- 11:20 Varactor-Based Frequency-Tuned Microwave Quarter-Wavelength Side-Coupled Ring Resonator
M. A. Abdul Latip, M. K. Mohd Salleh, I. Pasya and N. Ab Wahab *****
- 11:40 The Design and Development of CDMA450 Repeater
A. S. Mohd Marzuki, A. Naemat, A. R. Abdul Rahim, S. Selamat, A. T. Md Azlan Tee, K. Khalil and S. F. H. Syed Abdullah *****
- 12:00 Design Of Microstrip Patch Array Antenna Using Rectangular Barium Strontium Titanate (BST) Ceramic
W. Hoon and M. F. Abd Malek *****
- 12:20 Versatile Voltage-Mode Quadrature Oscillator Circuit Using DDCCs
M. Kumngern *****

- 12:40 PM - 1:40 PM BR22: Lunch Break (All Participants)**
- 2:00 PM - 6:00 PM TR21: Langkawi Tour (All Participants)**
- 8:00 PM - 10:30 PM BR24 (Ballroom): Gala Dinner (Full Registration and Non-student Registration)**
- 10:30 PM - 11:30 PM EB2: Event Break**

Tuesday, September 27

H31 : Wireless & Mobile System

Room : Emerald

Chairs: Ramineni Siva Ram prasad (Nagarjuna University, India)

Azita Laily Yusof (Universiti Teknologi Mara, Malaysia)

- 8:20 A Review on Pairing Based Cryptography in Wireless Sensor Networks
R. Rosli, Y. Yusoff and H. Hashim *****
- 8:40 A New Rake Receiver Design for Long Term Evolution - Advance Wireless System
T. A. Tengku Aziz and A. H. Ali *****
- 9:00 Clustered Balanced Minimum Spanning Tree for Routing and Energy Reduction in Wireless Sensor Networks
K. Khamforoosh *****
- 9:20 A New Approach to Telugu Text Steganography
R. Siva Ram Prasad and K. Alla *****
- 9:40 Spectrum Sensing and Throughput Performance in Opportunistic Spectrum Access System
N. Armi, M. Z. Yusoff, N.M. Saad *****
- 10:00 The Management of Pilot Symbols in MIMO- OFDM Systems by Adding a Feedback Branch
H. R. Bakhshi and B. Sabooniha *****
- 10:20 Morning Break**
- 10:40 Handover Initiation Across Heterogeneous Access Networks for Next Generation Cellular Network
A. L. Yusof, N. Ya'acob and M. T. Ali *****
- 11:00 Evaluating Impact of Mobility on Wireless Routing Protocols
N. Javaid, M. Yousaf, A. Ahmad, A. Naveed and K. Djouani *****
- 11:20 Wireless Sensor Actor Networks Application for Agricultural Environment
N. Sabri, S. A. Aljunid, R. B. Ahmad, M. F. Malik, A. Yahya, R. Kamaruddin and M. S. Salim *****
- 11:40 A Novel Sender Authentication Scheme Based on Hash Chain for Vehicular Ad Hoc Networks
V. Viswanath, N. Kavita, S. Urs and S. Sampalli *****

12:00 A Heuristic Based Approach for Sensor-to-Sink Binding in WSNs
H. Safa, M. Moussa, H. Artail and N. Abbani *****

12:40 PM - 1:40 PM BR32: Lunch Break (All Participants)

H32 : Antenna & Propagation

Room : Emerald

Chairs: Qing Wei Pan (Manukau Institute of Technology, New Zealand)

Shweta Srivastava (Birla Institute of Technology, India)

1:40 Performance Enhancement of Annular Ring Antenna Using Air Gaps in Stacked Substrate
S. Chakraborty and S. Srivastava *****

2:00 Simple Qualitative Approach for Full-Wave Analysis of Electromagnetic Structures Without Usage of Maxwell's Equations: Application to Rectangular Waveguides
T. Elshafiey *****

2:20 A Compact Size Antenna with High Gain Enhancement for IEEE 802.15.3
M. Jusoh, F. Jamlos, M.R. Kamarudin, and M.F. Malek *****

2:40 Investigation of the Annual Solar Eclipse by Using Total Electron Content (TEC) Measurements
N. Ya'acob, A. L. Yusof, M. T. Ali, M.K. Mohd Salleh, I. Pasya and S.Y.M. Sharihuiddin *****

3:00 A 2 by 2 Planar Array Antenna Using Aperture Coupler Technique
M. T. Ali, H. Alias, S. M. Kayat and M.N. Md Tan *****

3:20 Afternoon Break

3:40 2.4 GHz Propagation Characteristics of Power Line Cable
Q. W. Pan, and R. Kumar *****

4:00 Novel Dual-Oval Shape Antenna with Bandstop Characteristic for UWB Application
M. S. Zulkefli and M. F. Abd Malek *****

4:20 The Effect of the Carbon to the S11 Measurement on the Pyramidal Microwave Absorbers
I. Mohd Ibrahim, N. M. Yaakob, M. N. Husain, S. M. Se and A. Shaaban *****

6:00 PM - 8:00 PM EB3: Event Break

Wednesday, September 28

H41 : Wireless Services & Applications

Room : Emerald

Chairs: Tarief F. Elshafiey (October University for Modern Sciences and Arts (MSA), Egypt)

Srinivas Sampalli (Dalhousie University, Canada)

- 8:20 A New Technique for Reduction of Multi-Access Interference in SAC-OCDMA System Using Different Optical Filters
T. Hussein Abd, S. A. Aljunid, H. A. Fadhil, R. A. Ahmad and N. M. Saad *****
- 8:40 Enhanced Mobile Lightweight Medium Access Control Protocol for Wireless Sensor Network
E. Tabatabaei Yazdi, A. H. Amina, M. Zareei and T. C. Wan *****
- 9:00 Design and Implementation of a Museum and Banks Security System Using Antenna as IR Proximity Sensor and PSoC Technology
T. Elshafiey *****
- 9:20 A Novel Reliability Scheme Employing Multiple Sink Nodes for Wireless Body Area Networks
R. Sampangi, S. Urs and S. Sampalli *****
- 9:40 Managing Social Networks in Vehicular Networks Using Trust Rules
N. Abbani, M. Jomaa, T. Tarhini, H. Artail and W. El-Hajj *****
- 10:00 Traffic Light Control Via VANET System Architecture
M. Abbas, M. N. Karsiti, M. Napiah and B. B. Samir *****
- 10:20 Morning Break**
- 10:40 Enabling Dynamic Spectrum Access for Cognitive Radio Using Software Defined Radio Platform
R. A. Rashid, M. A. Sarijari, N. Faisal, S.K.S Yusof and S.H.S Ariffin *****
- 11:00 A Customizable Wireless Food Ordering System with Realtime Customer Feedback
N. A. Samsudin, S. K. Ahmad Khalid, M. F. A. Mohd Kohar, Z. Senin and M. N. Ihkasan *****
- 11:20 Microwave Absorbing Material Using Rubber Wood Sawdust
S. M. Se, A. Shaaban and I. Mohd Ibrahim *****
- 12:40 PM - 1:40 PM BR42: Lunch Break (All Participants)**