

2012 International Symposium on Telecommunication Technologies (ISTT 2012)

**Kuala Lumpur, Malaysia
26-28 November 2012**



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ISTT 2012 Programme

Day 1: Monday, 26th November 2012

Welcoming High-Tea Reception at KL Tower

Venue: KL Tower

Time/Venue	Agenda
14:30 – 15:00	Pre-registration at the base of KL Tower
15:00 – 18:00	High-Tea at 360° Restaurant in KL Tower

Day 2: Tuesday, 27th November 2012

Venue: Citrus Hotel

Time/Venue	Ballroom	
08:00 – 08:45	REGISTRATION	
08:45 – 09:00	OPENING CEREMONY	
09:00 – 09:05	Welcome remarks by Chair of IEEE ComSoc/VTS Joint Chapter Malaysia	
09:10 – 09:20	Speech and opening of conference by Chair of IEEE Malaysia	
09:20 – 10:10	Keynote Address 1	
10:10 – 11:00	Keynote Address 2	
11:00 – 11:20	TEA BREAK	
Time/Venue	Ballroom	Kristal 5
11:20 – 13:00	Mobile and Wireless Communications 1 (MWC1)	Wireless Ad-Hoc and Sensor Networks 1 (WAHSN1)
13:00 – 14:00	LUNCH	
14:00 – 15:20	Optical Communication System (OCS)	Wireless Ad-Hoc and Sensor Networks 2 (WAHSN2)
15:20 – 15:40	TEA BREAK	
15:40 – 17:40	Mobile and Wireless Communications 2 (MWC2)	Wireless Ad-Hoc and Sensor Networks 3 (WAHSN3) and Mobile and Wireless Communications 3 (MWC3)

Day 3: Wednesday, 28th November 2012

Venue: Citrus Hotel

Time/Venue	Ballroom	Kristal 5
09:00 – 10:40	Mobile and Wireless Communications 4 (MWC4)	Information and Coding Theory (ICT)
10:40 – 11:00	TEA BREAK	
11:00 – 12:40	Mobile and Wireless Communications 5 (MWC5)	Mobile and Wireless Communications 6 (MWC6)
12:40 – 14:00	LUNCH	
14:00 – 15:20	Mobile and Wireless Communications 7 (MWC7)	Telecommunication Networks 1 (TN1)
15:20 – 15:40	TEA BREAK	
15:40 – 17:00	Mobile and Wireless Communications 8 (MWC8)	Telecommunication Networks 2 (TN2) and Internet Technologies (IT)
	Ballroom	
17:00 – 17:30	Best Paper Award Prize Giving and Closing Ceremony	

List of Papers

Day 2: Tuesday, 27th November 2012

Time: 11:20 – 13:00

Venue: Ballroom

Session: Mobile and Wireless Communications 1 (MWC1)

Paper ID	Title	Authors
MWC1-01	A Compact Ultra Wideband Antenna with WLAN (IEEE 802.11 a) Band Rejection	Yanti Erana Jalil; Chandan Chakrabarty; Baskaran Kasi
MWC1-02	Reflection Loss Performance of Double Pyramidal Microwave Absorber	Mohd Fareq Abd Malek; Nornikman Hassan; Liyana Zahid; Wee Fwen Hoon
MWC01-03	Use of Geographic Information System (GIS) Tools as Network Planning Aid for Antenna Mounting in Remote Areas	Intan Shafinaz Mustafa; Norashidah Din; Aiman Ismail; Rohayu Che Omar
MWC1-04	Investigation of Single and Two Notch on Circular Polarized Patch Antenna	Mohamad Zoinol Abidin Bin Abd Aziz

Day 2: Tuesday, 27th November 2012

Time: 14:00 – 15:20

Venue: Ballroom

Session: Optical Communication System (OCS)

Paper ID	Title	Authors
OCS-01	Reliability Performance of Shuffle Exchange Omega Network	Nur Arzilawati Md Yunus
OCS-02	Implementing static bandwidth allocation in EPON testbed	Nurul Asyikin Mohd. Radzi
OCS-03	Effect of FWM in Dispersion-Managed Ultra-High Speed DWDM Transmission System	Mohammad Faisal; Mashad Saleh; Iqbal Hasan; Nabeela Jeny
OCS-04	Mode Power Evolution in Tapered Single-Mode Fiber	Siti Azlida Ibrahim; Nor Azura Malini Ahmad Hambali; Katrina Dambul; Syabeela Syahali

Day 2: Tuesday, 27th November 2012

Time: 15:40 – 17:40

Venue: Ballroom

Session: Mobile and Wireless Communications 2 (MWC2)

Paper ID	Title	Authors
MWC2-01	Design of Microstrip Antenna for Modern Wireless Communication	Thana Pakkiam Krishnan; Mandeep Jit Singh; Mohammad Tariqul Islam
MWC2-02	Analysis and Design between Plasma Antenna and Monopole Antenna	Hajar Ja'afar; Mohd Tarmizi Ali; Nur Aina Halili; Hanisah Mohd Zali; Ahmad Nazri Dagang
MWC2-03	Study of Monopole Plasma Antenna Using Fluorescent Tube in Wireless Transmission Experiments	Hanisah Mohd Zali; Mohd Tarmizi Ali; Nur Aina Halili; Hajar Ja'afar; Idnin Pasya
MWC2-04	A Study on Plasma Antenna Characteristics with Different Gases	Nur Aina Halili; Mohd Tarmizi Ali; Hanisah Mohd Zali; Hajar Ja'afar; Idnin Pasya
MWC2-05	Dual Frequency Reflectarray Antenna Based on Method of Moment Mathematical Model	Noor Hafizah Sulaiman; Muhammad Yusof Ismail

Day 2: Tuesday, 27th November 2012

Time: 11:20 – 13:00

Venue: Kristal 5

Session: Wireless Ad-Hoc and Sensor Networks 1 (WAHSN1)

Paper ID	Title	Authors
WAHSN1-01	Mobility Management Schemes and Mobility Issues in Low Power Wireless Sensor Network	Teo Kar Hoey; Gopinath Rao Sinniah; Reza Khoshdelniat; Azizol Abdullah; Shamala Subramaniam
WAHSN1-02	A Sinkhole Attack Detection Scheme in Minroute Wireless Sensor Networks	Murad Abdo Rassam; Anazida Zainal; Mohd Aizaini Maarof; Mohammed Al-Shaboti
WAHSN1-03	An asynchronous multi-channel MAC protocol with Pulse/Tone exchange for RTS collision avoidance	Ryo Manzoku; Hiroo Sekiya; Jing Ma; Kosuke Sanada; Shiro Sakata
WAHSN1-04	Sensor Node Placement based on Lexicographic Minimax	Husna Zainol Abidin; Norashidah Din
WAHSN1-05	A Proposed Network Management Protocol for Cognitive Radio Sensor Networks (CRSN)	Suleiman Zubair; Norsheila Faisal; Mohammed. B Abazeed; Bala A. Salihu

Day 2: Tuesday, 27th November 2012

Time: 14:00 – 15:20

Venue: Kristal 5

Session: Wireless Ad-Hoc and Sensor Networks 2 (WAHSN2)

Paper ID	Title	Authors
WAHSN2-01	DkCS: An Efficient Dynamic k-Coverage Scheduling Algorithm for Wireless Sensor Networks ...	Ahmed Al-Shalabi; Mazani Manaf
WAHSN2-02	Distributed Contention Arbitration using RTS/CTS versus DATA/ACK for Wireless Sensor Networks ...	Azlan Awang

WAHSN2-04	Flooding Control by using Angle Based Cone for UWSNs ...	Tariq Ali
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Day 2: Tuesday, 27th November 2012

Time: 15:40 – 17:40

Venue: Kristal 5

Session: Wireless Ad-Hoc and Sensor Networks 3 (WAHSN3) and Mobile and Wireless Communications 3 (MWC3)

Paper ID	Title	Authors
WAHSN3-01	An Efficient CSMA-CA Algorithm for IEEE 802.15.4 Wireless Sensor Networks ...	Zahraa Dahham
WAHSN3-02	Evaluation of Optimal Cluster Size in Heterogenous Energy Wireless Sensor Networks ...	Norah Tuah
WAHSN3-03	Performance Analysis of Implicit Acknowledgement Coordination Scheme for Opportunistic Routing in Wireless Sensor Networks	Mohd Rusli
MWC3-01	E1PD: Enhanced 1-Persistence Data Dissemination Protocol for Vehicle Ad hoc Networks in Highway Enviornments ...	Fahimeh Rostami; Tat-Chee Wan
MWC3-02	Range Estimation Based on a Deep Fade Linearity Function ...	Kamaludin Mohamad Yusof

Day 3: Wednesday, 28th November 2012

Time: 09:00 – 10:40

Venue: Ballroom

Session: Mobile and Wireless Communications 4 (MWC4)

Paper ID	Title	Authors
MWC4-01	Evolutionary Second-Order Statistical Model for Nonstationarity Wideband Communication Channels	Uche A.K. Chude Okonkwo; Razali Ngah; Tharek Abdul Rahman; Chollette Chude
MWC4-02	Integration of PIN Diodes with Slot Embedded Patch Elements for Active Reflectarray Antenna Design	Muhammad Inam Abbasi; Muhammad Yusof Ismail
MWC4-03	Phase Distribution Analysis of Reflectarray Resonant Elements based on Linear and Non-linear Materials	Muhammad Hashim Dahri; Muhammad Yusof Ismail
MWC4-04	Numerical Model for Phase Distribution Characterization of Reflectarray Elements	Arslan Kiyani; Muhammad Yusof Ismail

Day 3: Wednesday, 28th November 2012

Time: 11:00 – 12:40

Venue: Ballroom

Session: Mobile and Wireless Communications 5 (MWC5)

Paper ID	Title	Authors
MWC5-01	Wran System on ZBC TV: A New Way to Internet Connectivity for Rural Areas in Zimbabwe	Rasty Chimheno; Mardeni Roslee
MWC5-03	Performance Evaluation of Uncoordinated Beamforming over Cognitive Radio Network	Wan Nadzlia Shazwanie Wan Mohd Zuferi; Nordin Bin Ramli; Hafizal Mohamad; Khaizuran Abdullah
MWC5-04	Performance Prediction of Future V-band Earth-space Link in the Tropics	Ahmad Fadzil Ismail
MWC5-05	Design a New Confidential Protocol for Master Mode TV Band Devices	Mubark Elmubark; Rashid Saeed; Hashim Elshafie

Day 3: Wednesday, 28th November 2012

Time: 14:00 – 15:20

Venue: Ballroom

Session: Mobile and Wireless Communications 7 (MWC7)

Paper ID	Title	Authors
MWC7-01	Resource Allocation in Multi-Cell Decode-and-Forward Relaying OFDMA Cellular Networks in the Presence of Multi-Cell Interference	Mohamad Hossein Moghaddam; Kamal Mohamed-pour; Seyed Mehdi Hosseini Andargoli
MWC7-02	Peak-to-Average Power Ratio Reduction of OFDM Signals using IIR Filters	Ashvin Jayapalasingam; Mohamad Yusoff Alias
MWC7-03	Performance Investigation between DSI-SLM and DSI-PTS Schemes in OFDM Signals	Somayeh Mohammady
MWC6-02	Design and Implementation of New Non-Contiguous Carrier Aggregation in Release 10	Aws Zuheer Yonis; Mohammad Faiz Liew Abdullah

Day 3: Wednesday, 28th November 2012

Time: 15:40 – 17:00

Venue: Ballroom

Session: Mobile and Wireless Communications 8 (MWC8)

Paper ID	Title	Authors
MWC8-04	Improvement of Higher Order Modulations for MUROS	Dong-ha Han; Seung-Hoon Hwang; Jaeho Shin

Day 3: Wednesday, 28th November 2012

Time: 09:00 – 10:40

Venue: Kristal 5

Session: Information and Coding Theory (ICT)

Paper ID	Title	Authors
ICT-01	IR-HARQ Scheme on Bit-Interleaved Coded Modulation	Hazilah Mad Kaidi; Norulhusna Ahmad; Norsheila Faisal; Sharifah K. Syed-Yusof; Sharifah Hafizah Syed Ariffin
ICT-02	Multiple Description Coding with Side Information for Stereoscopic 3D	Hezerul Abdul Karim; Farli Rossi; Nor Azhar Mohd Arif; Aduwati Sali; Ryoichi Komiya
ICT-03	Performance Analysis of Utilizing Genetic Algorithm to Minimize Coding Nodes in Wireless Networks	Shee Eng Tan; Zhan Wei Siew; Scott Carr Ken Lye; Hou Pin Yoong; Kenneth Tze Kin Teo
ICT-04	Performance Evaluation of Rank Sort Parallelism	Mostafijur Rahman, Md.

Day 3: Wednesday, 28th November 2012

Time: 11:00 – 12:40

Venue: Kristal 5

Session: Mobile and Wireless Communications 6 (MWC6)

Paper ID	Title	Authors
MWC6-01	Energy Efficiency of LTE Macro Base Station	Ayad Atiyah Abdulkafi; Sieh Kiong Tiong; Johnny Koh; David Chieng; Alvin Ting; Abdulaziz Mohammed Ghaleb
MWC6-03	A Simple Algorithm for Subcarrier and Power Allocation in WiMAX Network	Dahiru Sani Shu'aibu; Sharifah K. Syed-Yusof
MWC6-04	Matched Filter Detection Technique For GSM Band	Mas Haslinda Mohamad; Cui Wen Haw; Mahamod Ismail

MWC7-04	Efficiency Analysis of PAPR Reduction Schemes	Sara Razavi
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Day 3: Wednesday, 28th November 2012

Time: 14:00 – 15:20

Venue: Kristal 5

Session: Telecommunication Networks 1 (TN1)

Paper ID	Title	Authors
TN1-02	Technical Examination for Interference Analysis of MLA-GOV RF Communication System	Noor Hidayah Tauhid Ahmad; Dasimah Zainal; Mohammed Phillip Wray; Effandi Hassan
TN1-03	Power Allocation via Interference Compensation in Underlay Cognitive Radio Networks: A Game Theoretic Perspective	Omar B. Abdulghafoor; Mahamod Ismail; Rosdiadee Nordin

Day 3: Wednesday, 28th November 2012

Time: 15:40 – 17:00

Venue: Kristal 5

Session: Telecommunication Networks 2 (TN2) and Internet Technologies (IT)

Paper ID	Title	Authors
TN2-01	Service Availability Evaluation for a Protection Model in Hybrid Cloud Computing Architecture	Majda Wazzan; Ayman Fayoumi
TN2-02	Enhancing DCCP Congestion Control Mechanism for Long Delay Link	Shahrudin Awang Nor
IT-01	A New Content Distribution Model With Path Probing Mechanism for P2P Overlay Networks	Maryam Feily; Alireza Shahrestani; Salah Noori; Sureswaran Ramadass
IT-02	Visualization of Invariant Bot Behavior for Effective Botnet Traffic Detection	Alireza Shahrestani; Maryam Feily; Balakrishnan Muniandy; Mona Masood