

Program of the 4th International Conference on Signal Processing and Communication Systems

Gold Coast, Australia, 13-15 December 2010

Monday, 13 December 2010

8:00 a.m. – 9:00 a.m.	<i>Registration</i>
9:00 a.m. – 9:05 a.m.	Official Opening
9:05 a.m. – 10:35 p.m.	Session 1 – Communication Theory and Techniques 1
10:35 a.m. – 11:00 a.m.	<i>Coffee Break</i>
11:00 a.m. – 12:30 p.m.	Session 2 – DSP Algorithms and Hardware Implementations
12:30 p.m. – 1:30 p.m.	<i>Lunch</i>
1:30 p.m. – 3:00 p.m.	Session 3 – Communication Theory and Techniques 2
3:00 p.m. – 3:30 p.m.	<i>Coffee Break</i>
3:30 p.m. – 5:00 p.m.	Session 4 – Wireless Networking 1
6:00 p.m. – 7:00 p.m.	<i>Cocktail Reception</i>

Tuesday, 14 December 2010

9:00 a.m. – 10:30 a.m.	Session 5 – Key Note Lecture and Internet
10:30 a.m. – 11:00 a.m.	<i>Coffee Break</i>
11:00 a.m. – 12:30 p.m.	Session 6 – Communication Theory and Techniques 3
12:30 p.m. – 1:30 p.m.	<i>Lunch</i>
1:30 p.m. – 2:30 p.m.	Poster Session 1 – Communication Systems
2:50 p.m. – 3:50 p.m.	Poster Session 2 – Signal Processing
3:00 p.m. – 3:30 p.m.	<i>Coffee Break</i>
4:10 p.m. – 5:10 p.m.	Poster Session 3 – Wireless Systems
7:00 p.m. – 11:00 p.m.	<i>Banquet</i>

Wednesday, 15 December 2010

9:00 a.m. – 10:30 a.m.	Session 7 – Wireless Networking 2
10:30 a.m. – 11:00 a.m.	<i>Coffee Break</i>
11:00 a.m. – 12:30 p.m.	Session 8 - Communication Theory and Techniques 4
12:30 p.m. – 1:30 p.m.	<i>Lunch</i>
1:30 p.m. – 3:00 p.m.	Session 9 – Digital Signal Processing
3:00 p.m. – 3:30 p.m.	<i>Coffee Break</i>
3:30 p.m. – 5:00 p.m.	Session 10 – Wireless Networking 3

End of the Conference

Session 1 – Communication Theory and Techniques 1

Chair: Prof. Tadeusz A Wysocki

1. 2D Mobile-to-Mobile Wireless Channel Model, *Prasad T Samarasinghe, Tharaka Anuradha Lamahewa, The Australian National University; Thushara D. Abhayapala, WSP,NICTA; Rodney A. Kennedy, The Australian National University*
2. A Generalized Method for the Design of Ergodic Sum-of-Cisoids Simulators for Multiple Uncorrelated Mobile Fading Channels, *Carlos A. Gutierrez, Universidad Panamericana; Matthias Pätzold, University of Agder*
3. A Reduced Complexity Chip-Level SOR-SIC Multiuser Detector for Long-Code CDMA Systems, *Abdelouahab Bentrchia, King Saud University; Azzedine Zerguine, KFUPM; M. Benyoucef, Batna University*
4. Accurate Approximations of BER for DQPSK Transmission via Least Squares Estimation of the Marcum Q-function, *Sharon Lee, University of Queensland*
5. An Iterative Parallel OFDM Demodulation for Fast Time-Varying Fading Channels, *Satoshi Denno, Kyoto University*

Session 2 – DSP Algorithms and Hardware Implementations

Chair: TBA

1. Null-steering Beamforming for Cancellation of Co-channel Interference in CDMA Wireless Communication System, *Md. Rajibur Rahaman Khan, Vyacheslav Tuzlukov, Kyungpook National University*
2. Ultra-Wideband Spatio-Temporal Channel Sounding with Use of an OFDM Signal in the Presence of Narrowband Interference, *Daisuke Sugizaki, Wireless Systems Laboratory, Tokyo Denki University; Naohiko Iwakiri, Takehiko Kobayashi, Tokyo Denki University*
3. Generalized Cauchy Distribution (GCD)-Based Score Functions for a Fast and Flexible Subband Decomposition ICA, *Marko Kanadi, The University of Electro-Communications; Muhammed Tahir Akhtar, The University of Electro-Communications, Chofu, Tokyo; Wataru Mitsuhashi, The University of Electro-Communications*
4. Low Complexity FPGA-Implementation of a Reconfigurable SIC Multiuser Detector for Wireless Applications, *Tariq Alshawi, King Saud University; Abdelouahab Bentrchia, King Saud University; Mohamed Elnamaky, King Saud University; Saleh Alshebeili, King Saud University (KSU)*
5. Using In-Air Acoustic Vector Sensors for Tracking Moving Speakers, *Muawiyath Shujau, Christian Ritz, University of Wollongong; Ian Burnett, RMIT University*
6. Blind Identification and Real-Time Calibration of Memory Nonlinearity Based on RLS Algorithm, *Pengliang, HuaZhong University of Science and Technology; Mahong, HuaZhong University of Science and Technology*

Session 3 – Communication Theory and Techniques 2

Chair: TBA

1. Another Approach to Save Energy in OFDM Systems, *Xiaoying Shao, C.H. Slump, University of Twente*
2. Efficient BER Computation of LDPC Coded SC/MRC Systems over Rayleigh Fading, *Beng Soon Tan, Kwok Hung Li, Kah Chan Teh, Nanyang Technological University*
3. Iterative Decoding on Soft Information for Virtual Layered Space-Frequency Receivers, *Jun Imamura, Satoshi Denno, Daisuke Umehara, Masahiro Morikura, Kyoto University*
4. Layered Steered Space Time Codes in Multi-User Systems, *Ahmad S. Salim, King Fahd University of Petroleum and Minerals; Salam A. Zummo, King Fahd University of Petroleum and Metal; Samir Al-Ghadhban, KFUPM*
5. Low Complexity Channel Shortening Technique Applied to MB-OFDM UWB Systems, *Karima RAGOUBI, IETR, INSA Rennes; Maryline Helard, INSA (Rennes); Matthieu Crussière, Institute of Electronics and Telecommunications of Rennes*

Session 4 – Wireless Networking 1

Chair: TBA

1. A Predictive Network Resource Allocation Technique for Cognitive Wireless Networks, *Alia Asheralieva, University of Newcastle; Jamil Khan, The University of Newcastle, Australia; Kaushik Mahata, University of Newcastle; Eng Hwee Ong, University of Newcastle, Australia*
2. A Protocooperation-based Sleep-Wake Architecture for Next Generation Green Cellular Access Networks, *Md. Farhad Hossain, The University of Sydney; Kumudu Munasinghe, Abbas Jamalipour, University of Sydney*
3. Coarse-Fine Spectrum Sensing for Cognitive Radio for Minimum Sensing Time, *Brendan Lawton, Colin Murphy, University College Cork*
4. Coded Packet Immediate Access for Contention-based Wireless Relay Networks, *Daisuke Umehara, Kyoto University; Chun-Hsiang Huang, NTT Corporation; Satoshi Denno, Masahiro Morikura, Kyoto University; Takatoshi Sugiyama, NTT Corporation*
5. Cooperative Agent-based SANET Architecture for Healthcare, *Zenon Chaczko, Chris Chiu, Anup Kale, University of Technology Sydney*

Session 5 – Key Note Lecture and Internet

Chair: TBA

1. **Key Note:** Towards a Low-Complexity Dynamic Decode-and-Forward Relaying Protocol, *Parastoo Sadeghi, The Australian National University*
2. Comparison of Proactive and Reactive Methods for IP Fast Restoration using Localization Algorithm, *Kazuya Suzuki, Masahiro Jibiki, NEC Corporation; Kenichi Yoshida, University of Tsukuba*
3. A video traffic modeling tool for simulation-based performance evaluation studies, *Estela Sousa, University of Vigo*
4. What's your Contribution? An online system for assessing each member's participation in team based projects, *Peter Vial, Zhihao Zhang, Montserrat Ros, Christian Ritz, Geoff Trott, University of Wollongong*

Session 6 – Communication Theory and Techniques 3

Chair: TBA

1. Mutual Coupling Compensation of Compact Antenna Array for Direction-of-Arrivals Estimations, *Hoi-Shun Lui, Chalmers University of Technology; Hon Tat Hui, Dep. of Electrical and Computer Eng. National University of Singapore*
2. Network and Erasure Coding for Improved Packet Delivery, *Scott Melvin, Jacek Ilow, Dalhousie University*
3. Novel ternary line codes employing trellis-coded modulation, *Mussawir Hosany, University of Mauritius; Nasseer Khodabux, Central Electricity Board*
4. On the Impact of Redundant Subcarrier Energy Optimization in UW-OFDM, *Christian Hofbauer, Mario Huemer, University of Klagenfurt; Johannes B. Huber, University of Erlangen-Nuremberg*
5. Self-Encoded Spread Spectrum for GNSS Applications, *Austin Steiner, University of Nebraska-Lincoln; Lim Nguyen, University of Nebraska Lincoln*
6. General Order Antenna Selection in MIMO Cooperative Relay Network, *Arun Gurung, RMIT University; Fawaz Al-Qahtani, Texas A & M University at Qatar; Zahir Hussain, RMIT University*

Session 7 – Wireless Networking 2

Chair: TBA

1. Joint Source and Relay Optimization for Multiuser MIMO Relay Communication Systems, *Muhammad R. A. Khandaker, Yue Rong, Curtin University of Technology*
2. Energy Consumption Analysis of Flow-specific Medium Access and the Role of Probabilistic Preamble Sampling in Energy and Delay Performance, *Owens Walker, Murali Tummala, John McEachen, Naval Postgraduate School*

3. Enhancement of IEEE 802.11 and Network Coding for Single-Relay Multi-User Wireless Networks, *Daisuke Umehara, Kyoto University; Chun-Hsiang Huang, NTT Corporation; Satoshi Denno, Kyoto University; Masahiro Morikura, Graduate School of Informatics, Kyoto-University; Takatoshi Sugiyama, NTT Access Network Service Systems Laboratories*
4. Jointly Optimizing Power Allocation and Relay Positions for Multi-Relay Regenerative Relaying With Relay Selection, *Xiaojuan Zhang, Yi Gong, Nanyang Technological University*
5. Nonsmooth Optimization-Based Beamforming in Multiuser Wireless Relay Networks, *Anh Phan, H. D. Tuan, Ha Hoang Kha, University of New South Wales; Ha H. Nguyen, University of Saskatchewan*

Session 8 - Communication Theory and Techniques 4

Chair: TBA

1. On the Statistical Properties of the Capacity of OSTBC Nakagami-Lognormal MIMO Channels, *Gulzaib Rafiq, Matthias Pätzold, University of Agder*
2. Particle Filter for Joint Blind Carrier Frequency Offset Estimation and Data Detection, *Ali Arshad Nasir, Australian National University; Salman Durrani, Rodney A. Kennedy, The Australian National University*
3. Proactive Spectrum Sensing with Probing Power Control in Cognitive Radio, *Ian Bajaj, Yi Gong, Xiaojuan Zhang, Nanyang Technological University*
4. Soft Input Decoding of Reed Solomon Codes with Miscorrection Detection and Avoidance, *Obaid ur Rehman, Natasa Zivic, University of Siegen*
5. Spatial Correlation in the Broadcast MU-MIMO UWB System Using a Pre-Equalizer and Time Reversal Pre-Filter, *Trung Kien Nguyen, Hieu Nguyen, Feng Zheng, Thomas Kaiser, Leibniz University of Hannover*

Session 9 – Digital Signal Processing

Chair: TBA

1. Blind Deconvolution of Natural Images using Segmentation Based CMA, *Pradeepa D. Samarasinghe, Rodney A. Kennedy, The Australian National University*
2. Frequency Prioritised Queuing in Real-Time Electrocardiograph Systems, *Omar Hashmi, Sandun Kodituwakku, Salman Durrani, The Australian National University*
3. UWB Microwave Monopulse Radar System for Breast Cancer, *Marek E Bialkowski, The University of Queensland; Yifan Wang, Amin Abbosh, University of Queensland*
4. Finite-Resolution Receiver Performance for IR-UWB Target Detection, *Liu Kaikai, Xu Hao, Chen Weidong, University of Science and Technology of China*
5. Vowel Recognition from Continuous Articulatory Movements for Speaker-Dependent Applications, *Jun Wang, Jordan R. Green, Ashok Samal, Tom D. Carrell, University of Nebraska-Lincoln*

Session 10 – Wireless Networking 3

Chair: TBA

1. Performance of Successive Broadcasting Scheme for a Multiuser Downlink MIMO System Operating Under Antenna Mutual Coupling Conditions, *Feng Wang, University of Queensland; Marek E Bialkowski, The University of Queensland*
2. Distributed Coexistence-aware Channel Allocation for Future Unlicensed High-Rate WPAN, *Ayman Khalil, IETR INSA; Matthieu Crussière, Institute of Electronics and Telecommunications of Rennes; Jean-Francois Helard, INSA Rennes*
3. Socionomics inspired data routing in Wireless Sensor Networks, *Sourendra Sinha, University of Technology, Sydney; Zenon Chaczko, University of Technology Sydney*
4. Topological Comparison Based Approach of Detecting Wormhole Attacks in OLSR Protocol, *Mohammad Alam, Dr. King-Sun Chan, Curtin University of Technology*
5. The Use Of Altitude Constraints Within Mining Navigation, *Garry Einicke, CSIRO*

Poster Session 1 – Communication Systems

1. A simple thin antenna with an enhanced gain for MB-OFDM UWB systems, *Yogeshwar Ranga, Karu P. Esselle, Macquarie University; Dr Andrew Weily, CSIRO ICT*
2. Adaptive Channel Assignment and Pilot-Less Channel Tracking Method for OFDMA Systems, *Kazumitsu Sakamoto, Osamu Muta, Yoshihiko Akaiwa, Kyushu University; K. Giridhar, IIT Madras; Hiroshi Furukawa, Kyushu University*
3. Adaptive Power Allocation for Multi-hop Regenerative Relaying OFDM Systems, *Xiaojuan Zhang, Yi Gong, Nanyang Technological University*
4. Analog Realisation of Iterative Threshold Decoding based on High-Order Recurrent Neural Networks, *Mohamad Mostafa, Werner G. Teich, Juergen Lindner, University of Ulm*
5. BER Performance of MIMO System Employing Fast Antenna Selection Scheme Under Imperfect Channel State Information, *Feng Wang, University of Queensland; Xia Liu, School of ITEE, University of Queensland; Marek E Bialkowski, The University of Queensland*
6. Capacity Analysis of MIMO Channel with Line-of-Sight and Reflected Paths for Millimeter-Wave Communication, *Seung Joon Lee, Kangwon National University; Mun Geon Kyeong, Woo Yong Lee, ETRI*
7. Channel-Independent Symbol Stream Recovery for Orthogonal Space-Time Block-Coded Signals, *John Kitchen, Defence Science & Technology Organisation*
8. Characteristics of Ricean K-factor in Wideband Indoor Channels at 3.7 GHz, *Jae Joon Park, Myung Don Kim, Hyun Kyu Chung, ETRI*
9. Classification of Digital Modulated Signals based on Time Frequency Representation, *Nadya Haq, Curtin University of Technology*
10. Distributed Orthogonal Space-Time Block codes with Adaptive Diversity Gain, *Yiyong Chin, Dhammika Jayalath, Queensland University of Technology; Bouchra Senadji, Queensland University of Technology, Brisbane, Australia*
11. Enhanced Two-Dimensional Data-aided Channel Estimation for TDS-OFDM, *Ming LIU, Institute of Electronics and Telecommunications of Rennes (IETR/INSA); Matthieu Crussière, Institute of Electronics and Telecommunications of Rennes; Jean-Francois Helard, INSA Rennes*
12. Increasing Signaling Power not Necessarily Improves Channel Capacity, *Rudolf Mathar, Anke Schmeink, RWTH Aachen University*
13. Iterative MMSE Interference Canceller for Cooperative Diversity MIMO Relay Network, *Abdaoui Abderrazak, Eric Chatelet, University of technology of Troyes; Abderrahim Doumar, University of Technology of Troyes*
14. Novel MMSE Design for Joint MIMO Processing in Analog Network Coding Schemes, *Enoch Lu, Jialing Li, I-Tai Lu, Polytechnic Institute of New York University*
15. On the Use of TCH Sequences for Synchronization and Channel Estimation in MIMO Systems, *João Carlos Silva, ISCTE/Instituto de Telecomunicações; Eunice Gomes, Hugo Silva, Iscte; Rui Dinis, IST, Tech. Univ. of Lisbon; Nuno Souto, ISCTE/Instituto de Telecomunicações*
16. On the use of Time Reversal for Digital Communications with Non-Impulsive Waveforms, *Thierry Dubois, Institut of Electronics and Telecommunications of Rennes (IETR); Maryline Helard, INSA (rennes); Matthieu Crussière, Institute of Electronics and Telecommunications of Rennes*
17. Performance analysis of Clustered DFT-Spread OFDM for LTE-Advanced Uplink MIMO, *Ok-Sun Park, Dae-Ho Kim, ETRI; Jaemin Ahn, University of Chungnam National*
18. Performance of Hybrid ARQ on Dual-Branch Diversity Receiver in Rayleigh Fading Channel, *Ghaida AL-Suhail, University of Basrah, Rodney A. Kennedy, The Australian National University*
19. Quantifying the Wave-Effect of Irregular LDPC codes based on Majority-Based Hard-Decoding, *Asad Mahmood, CASE*
20. Robust MMSE Transceiver Designs for Uplink MIMO Systems Subject to Arbitrary Linear Equality Power Constraints, *Enoch Lu, I-Tai Lu, Jialing Li, Polytechnic Institute of New York University*

21. Spectrum Sharing of OFDM Signals for Cognitive Radios, *Krzysztof Malon, Jerzy Lopatka, Military University of Technology*
22. STBC-MIMO Network Coding with Adaptive Modulation on Asymmetric Traffic and Channel, *Kosuke Fukuda, Fumie Ono, Yokohama National University*
23. Throughput of CSMA in Rice Fading Channels, *Elvio J. Leonardo, State University of Maringa; Michel Yacoub, State University of Campinas*
24. Trellis-Coded Multiple-Access Using Chirp Signalling, *Ryan Balsdon, Jacek Ilow, Dalhousie University*
25. Use of Time Frequency Analysis for Spectrum Sensing in Cognitive Radios, *Farrukh Javed, CASE Islamabad; Asad Mahmood, CASE*
26. UWB Analog Space Time Coding Systems Using A Genetic Algorithm Based Adaptive Rake Receiver, *Said E. El-Khamy, Faculty of Engineering, Alexandria University; Ehab F. Badran, Amira Zaki, Arab Academy for Science and Technology*
27. Wideband MIMO Channel Measurements in Indoor Hotspot Scenario at 3.705GHz, *Myung-Don Kim, Heon Kuk Kwon, Bumsoo Park, Jae Joon Park, Hyun Kyu Chung, ETRI*

Poster Session 2 – Signal Processing

1. A Novel Approach for MFCC Feature Extraction, *Md Afzal Hossan, Sheeraz Memon, Mark A Gregory, RMIT University*
2. Efficient Packet Classification on FPGAs also Targeting at Manageable Memory Consumption, *Nitesh Guinde, NJIT; Sotirios G. Ziavras, New Jersey Institute of Technology; Roberto Rojas-Cessa, NJIT*
3. A Novel Bipolar Time-Spread Echo Hiding Based Watermarking Method for Stereo Audio Signals, *Iynkaran Natgunanathan, Yong Xiang, Deakin University*
4. A Secured Chaos Encrypted Mode-S Aircraft Identification Friend or Foe (IFF) System, *Alaa Hafez, Waleed El-Masry, Amr Mokhtar, El-Sayed Abdol-Moaty, Alexandria University*
5. Digital Video Authentication with Motion Vector Watermarking, *Aaron Sharp, James Devaney, University of Nebraska Lincoln; Austin Steiner, University of Nebraska-Lincoln; Dongming Peng, University of Nebraska Lincoln*
6. Image Authentication Using Fractal Watermarking and Chaos Theory, *Koroush Kiani, Mehdi Arian, University of Semnan; Vahid Soleimani, University of Razi*
7. A Fast and Adaptive Boundary Matching Algorithm for Video Error Concealment, *Ghazaleh, Panahandeh*
8. An unequal error protection scheme employing convolutional codes and asymmetric 8PSK modulation for robust transmission of H.264/AVC video in wireless channels, *Mussawir Hosany, University of Mauritius; Sunil Kumar, Santosh Nagaraj, San Diego State University*
9. Comparative Evaluation of Speech Enhancement Methods for Robust Automatic Speech Recognition, *Kuldip Paliwal, Signal Processing Laboratory, Griffith University.; James Lyons, Stephen So, Anthony P. Stark, Kamil Wojcicki, Signal Processing Laboratory, Griffith University*
10. Effects of Compression and Window Size on Remote Acoustic Identification using Sensor Networks, *Ruben Gonzalez, Griffith University*
11. Efficient Medical Image Transformation Method for Lossless Compression by Considering Real Time Applications, *Farshid Sepehrband, Mohammad Mortazavi, Seyed Ghorshi, Jeiran Choupan, Sharif University of Technology, International Campus*
12. Efficient Sub-Pixel Interpolation And Low Power VLSI Architecture For Fractional Motion Estimation in H.264/AVC, *Obianuju Ndili, Tokunbo Ogunfunmi, Santa Clara University*
13. Error Resilience Performance Evaluation of H.264 I-frame and JPWL for Wireless Image Transmission, *Khalid Alajel, University of Southren Queensland*
14. Image Inpainting Using Iterative Methods, *Neda B.Marvasti, IEEE student member; F. Marvasti, Sharif University; Ali Pourmohammad, Amirkabir University of Technology*
15. Maximum Likelihood Estimation of Time Delays in Multipath Acoustic Channel - Performance versus Number of Multipath and Noise, *Tarkeshwar Prasad Bhardwaj, Ravinder Nath, National Institute of Technology, Hamirpur*
16. Novel Head Related Transfer Function Model for Sound Source Localisation, *Dumidu Talagala, Thushara Abhayapala, Australian National University*

17. Preference for 20-40ms window duration in speech analysis, *Kuldip Paliwal, Signal Processing Laboratory, Griffith University.; James Lyons, Kamil Wojcicki, Signal Processing Laboratory, Griffith University*
18. Test pattern based evaluation of ringing and blur in JPEG and JPEG2000 compressed images, *Dr. Amal Punchihewa, Massey University; Alexander Keerl, HAWK - University of Applied Sciences and Arts, Goettingen, Germany*
19. Using Long-Term Information to Improve Robustness in Speaker Identification, *James O'Connell, Signal Processing Laboratory, Griffith University; James G. Lyons, Griffith University; Kuldip Paliwal, Signal Processing Laboratory, Griffith University.*
20. A New UWB Positioning and Ranging Technique to Fix the Error due to Clock Offset, *Jae-wook Park, Yong-sung Choi, Won-cheol Lee, Soongsil University*
21. An Efficient Algorithm for Non-Rigid Image Registration, *Guanglei Wang, Hoi-Shun Lui, Mikael Persson, Chalmers University of Technology*
22. Frequency Domain Method for Photoacoustic Tomography with an Arbitrary Detection Geometry, *S.M. Akramus Salehin, The Australian National University; Thushara Abhayapala, Australian National University*
23. Internal Structure Identification of Random Process by Using Principal Component Analysis, *Mengqiu (Karan) zhang, Rodney A. Kennedy, Wen Zhang, Thushara D. Abahayapala, The Australian National University*
24. Time-Frequency Domain Fundamental Frequency Estimation and Localization of Quasiperiodic, Pulsatic Signal in a Correlated Mixture, *S.M. Akramus Salehin, The Australian National University; Thushara Abhayapala, Australian National University*
25. Towards Three-Dimensional Fusion of Infrared Guidance Measurements for Biopsy Procedures: Some Preliminary Results and Design Considerations, *Behrooz Sharifi, Dr. John Leis, University of Southern Queensland*
26. Ultra-wideband Technology-based Ranging Platform with Real-time Signal Processing, *Michal M. Pietrzyk, Fraunhofer Institute for Integrated Circuits*

Poster Session 3 – Wireless Systems

1. A new approach to design a WLAN-based positioning system, *Zheng You, Oumaya Baala, UTBM; Alexandre Caminada, Université de Technologie Belfort-Montbéliard*
2. Analysis of RSS Improved RFID Estimation, *Majid Alotaibi, Konstanty S Bialkowski, Adam Postula, The University of Queensland*
3. Degree of Inconsistency: Iterative Localization with Error Control, *Liu Kezhong, Zhang Jinfen, Yan Xinping, Wuhan University of Technology*
4. Geolocation of WiMAX Subscriber Stations Based on the Timing Adjust Ranging Parameter, *Don E. Barber, John McEachen, Naval Postgraduate School*
5. Underwater RSS-based Distance Measurement: An Application of Lambert W Function, *Majid Hosseini, Universiti Sains Malaysia; Hassan Chizari, Universiti Teknologi Malaysia; Chai Kok Soon, Rahmat Budiarto, Universiti Sains Malaysia*
6. A Cluster Based Time Division Multiple Access Scheme for Surveillance Network using Directional Antennas, *Chukwuchebem Orakwue, Yamin Al-Mousa, Rochester Institute Of Technology; Nirmala Shenoy, Rochester Institute of Technology; Nicholas Martin, Rochester Institute Of Technology*
7. A Joint Distributed Resource Management and Scheduling Scheme for Future UWB-based High-Rate WPAN, *Ayman Khalil, Hassan Ali-Ahmad, IETR INSA; Matthieu Crussière, Institute of Electronics and Telecommunications of Rennes; Jean-Francois Helard, INSA Rennes*
8. A Low Complexity Scheduling for Maximizing Satisfied Users in Wireless Networks, *Carlos Eduardo Uc Rios, CINVESTAV-IPN; Domingo Lara-Rodriguez, CINVESTAV*
9. An Interference Avoidance Method for Cognitive Radio in White Space, *Duy Quoc Vo, Joo-pyoung Choi, Khoa Chuyen Huynh, Won Cheol Lee, Soongsil University*
10. Cross-Layer Service Rediscovery and Reselection (CSRR) in Mobile Ad Hoc Networks, *Xu Shao, Networking Protocol Department, Institute for Infocomm Research; Qingqing Yi, National University of Singapore; Joseph Chee Ming Teo, Lek Heng Nghoh, Luying Zhou, Teck Yoong Chai, Institute for Infocomm Research*
11. Evaluation of Parameterised Route Repair in AODV, *Saaidal Razalli, University of Queensland; Marius Portmann, The University of Queensland; Wee Lum Tan, National ICT Australia*

12. Experimental Evaluation of IEEE 802.11s Path Selection Protocols in a Mesh Testbed, *Mehran Abolhasan, University of Technology Sydney*
13. Investigation of a Short-Range Underwater Acoustic Communication Channel for MAC Protocol Design, *Gunilla Burrowes, The University of Newcastle; Jamil Khan, The University of Newcastle, Australia*
14. Investigations into a Slotted ALOHA Protocol for a MIMO System Operating under Rician Channel Conditions, *Konglit Hunchangsith, The University of Queensland; Xia Liu, School of ITEE, University of Queensland; Marek E Bialkowski, Marius Portmann, The University of Queensland*
15. Knowledge Based Cooperative Spectrum Sensing Using Polynomial Classifiers in Cognitive Radio Networks, *Yasmin Hassan, American University of Sharjah; Mohamed El-Tarhuni, American University of Sharjah, UAE; Khaled Assaleh, American University of Sharjah*
16. Median Filtering Simulation of Bursty Traffic, *Auc Fai Chan, Dr. John Leis, University of Southern Queensland*
17. Mixed Rayleigh and Rician Fading with Partial Relay Selection, *Prasanna Herath, Upul Gunawardana, Ranjith Liyanapathirana, University of Western Sydney, Nandana Rajatheva, University of Oulu*
18. Optimized Power Allocation by Semidefinite Programming and Unscented Transformation for Nonlinear Sensor Network, *Umar Rashid, H. D. Tuan, Ha Hoang Kha, University of New South Wales; Ha H. Nguyen, University of Saskatchewan*
19. Performance of a Spectrum Sharing System over Nakagami-m Fading Channels, *Hung Tran, Trung Q. Duong, Hans-Jürgen Zepernick, Blekinge Institute of Technology*
20. Power Allocation and Relay Selection in Dual-hop Regenerative Relaying Systems, *Xiaojuan Zhang, Yi Gong, Nanyang Technological University*
21. Route Optimization for Roaming Heterogeneous Multi-Homed Mobile Networks, *Kumudu Munasinghe, Abbas Jamalipour, University of Sydney*
22. Spectrum Sharing Among Multiple Secondary Users in Cognitive Radio Networks, *Hoda Shah Mohammadian, Bahman Abolhassani, Iran University of Science and Technology*
23. Suppression of Intra-Network Interference in Decentralized Cognitive Radio Networks under Timing Errors, *Jari Nieminen, Aalto University, School of Science and Technology; Lijun Qian, Prairie View A&M University; Riku Jäntti, Aalto University*
24. System Level Simulation For Distributed Antenna System, *Kazi Mohammed Saidul Huq, Atilio Gameiro, Institute of Telecommunications, Portugal*
25. Throughput Coverage Simulations Based on Signal Level Measurements at 825 MHz and 3535 MHz, *Christoph Thein, Leibniz Universität Hannover; Kin Lien Chee, Technische Universität Braunschweig; Anggia Anggraini, Leibniz Universität Hannover; Thomas Kaiser, University of Hannover*
26. Voting Rule Optimisation for Double Threshold Energy Detector-Based Cognitive Radio Networks, *Donagh Horgan, Colin Murphy, University College Cork*
27. Implementation and Performance Evaluation of QoS Scheduling Algorithms in Mobile WiMAX NS-2 Simulator, *Wei Wang, South Dakota State University; Hamid Sharif, University of Nebraska-Lincoln; Michael Hempel, University of Nebraska - Lincoln; Ting Zhou, Univ Nebraska Lincoln; Beata Wysocki, Tad Wysocki, University of Nebraska - Lincoln*