Tuesday, December 7

10:00 - 11:10

AHSN01: Routing I

(Mohamed Eltoweissy, Pacific Northwest National Laboratory, US, mohamed.eltoweissy@pnl.gov)

Room: Tuttle South
An Opportunistic Service Differentiation Routing Protocol for Cognitive Radio Networks
   Kiam Cheng How (Nanyang Technological University, Singapore); Maode Ma
   (Nanyang Technological University, Singapore); Yang Qin (HIT Shenzhen
   Graduate School, P.R. China)
A New Hybrid Location-based Ad Hoc Routing Protocol
   Mohammad Al-Rabayah (University of New South Wales, Australia); Robert
   Malaney (University of New South Wales, Australia)
   Digital Signature
   Huang Lu (University of Tsukuba, Japan); Jie Li (University of Tsukuba, Japan)
Near-Minimum-Energy Routing in Heterogeneous Wireless Sensor Networks
   Weiyi (Max) Zhang (North Dakota State University, USA); Xiaojiang Du
   (Temple University, USA); Jie Wu (Temple University, USA); Shanaka de Soysa
   (North Dakota State University, USA); Yang Liu (North Dakota State University, USA)

AHSN13: Security II

(Yuri Labrador, Univision, FIU, US, ylabrador@UNIVISION.NET)

Room: Tuttle Center
RPoK: A Strongly Resilient Polynomial-based Random Key Pre-distribution Scheme for
   Multiphase Wireless Sensor Networks
   Omote (Japan Advanced Institute of Science and Technology, Japan); Atsuko
   Miyaji (Japan Advanced Institute of Science and Technology, Japan); Hisashige
   Ito (Japan Advanced Institute of Science and Technology, Japan)
PAAVE: Protocol for Anonymous Authentication in Vehicular Networks using Smart
   Cards
   Vamsi Krishna Paruchuri (University of Central Arkansas, USA); Arjan Durrese
   (Indiana University Purdue University Indianapolis, USA)
Threshold Key Redistribution for Dynamic Change of Authentication Group in Wireless
   Mesh Networks-
   Kan Yang (City University of Hong Kong, Hong Kong); Xiaohua Jia (City
   University of Hong Kong, Hong Kong); Bo Zhang (City University of Hong
   Kong, Hong Kong); Zhongming Zheng (City university of Hong Kong, Hong
   Kong)
A Scheme for Secure and Reliable Distributed Data Storage in Unattended WSNs
Yi Ren (University of Agder, Norway); Vladimir Oleshchuk (University of Agder, Norway); Frank Y. Li (University of Agder, Norway)

AHSN1P: Topics in Ah Hoc, Sensor, and Mesh Networks I (Poster)

(Kai Daniel, TU Dortmund University, DE, kai.daniel@uni-dortmund.de)

Room: Riverfront North Hall
Collaborative Sampling in Wireless Sensor Networks
  Minglei Huang (University of Wisconsin-Madison, USA); Yu Hen Hu (University of Wisconsin-Madison, USA)
Network Coding and Service Reneging for Real-Time Communication in Sensor Networks
  Marc Aoun (Philips Research, The Netherlands); Antonios Argyriou (University of Thessaly, Greece)
PCFG Based Synthetic Mobility Trace Generation
  Sahin Geyik (Rensselaer Polytechnic Institute, USA); Eyuphan Bulut (Rensselaer Polytechnic Institute, USA); Boleslaw K Szymanski (Rensselaer Polytechnic Institute, USA)
Optimal Multi-Frame Message Transmission for Intermittently Connected Mobile Networks
  Guolong Su (Tsinghua University, P.R. China); Yong Li (Tsinghua University, P.R. China); Fang Wang (Harbin Institute of Technology, P.R. China); Depeng Jin (Tsinghua University, P.R. China); Li Su (Tsinghua University, P.R. China); Lieguang Zeng (Tsinghua University, P.R. China)
RCS: a Random Channel Selection with Probabilistic Backoff for Multi-Channel MAC Protocols in WSNs
  Jinbao Li (Heilongjiang University, P.R. China); Desheng Zhang (Heilongjiang University, P.R. China); Shouling Ji (Georgia State University, USA); Longjiang Guo (Georgia State University, USA)
Prolonging Network Lifetime via A Controlled Mobile Sink in Wireless Sensor Networks
  Weifa Liang (Australian National University, Australia); Jun Luo (National University of Defense Technology, P.R. China); Grace Xu (The Australian National University, Australia)

AHSN25: Energy Saving and Power Control Protocols IV

(Shahrokh Valaee, University of Toronto, CA, valaee@comm.utoronto.ca)

Room: Jasmine
Symmetrical Power Control for Multi-channel Multi-hop Wireless Networks
  Khaled AlMotairi (University of Waterloo, Canada); Sherman Shen (University of Waterloo, Canada)
Using Centrality-based Power Control for Hot-spot Mitigation in Wireless Networks
Parth Pathak (North Carolina State University, USA); Rudra Dutta (North Carolina State University, USA)

Position Aware Node Provisioning for Solar Powered Wireless Mesh Networks
Mohammad Sheikh Zefreh (McMaster University, Canada, Canada); Ghada Badawy (Ryerson University, Canada); Terence D. Todd (McMaster University, Canada)

Dimension Reduction of Virtual Coordinate Systems in Wireless Sensor Networks
Dulanjalie Dhanapala (Colorado State University, USA); Anura Jayasumana (Colorado State University, USA)

CT01: Cooperative Techniques

(Wei Zhang, University of New South Wales, wzhang@ee.unsw.edu.au)

Room: Hibiscus B

Widely Linear Cooperative Spectrum Sensing for Cognitive Radio Networks
Angela Sara Cacciapuoti (University of Naples Federico II, Italy); Marcello Caleffi (University of Naples "Federico II", Italy); Luigi Paura (Università di Napoli Federico II, Italy)

Achievable Rates for Two User Cooperative OFDMA
Onur Kaya (Isik University, Turkey); Sezi Bakım (Isik University, Turkey)

Error Rate Performance of Network-Coded Cooperative Diversity Systems
Amir Nasri (University of British Columbia, Canada); Robert Schober (University of British Columbia, Canada); Murat Uysal (University of Waterloo, Canada)

Outage Probability and SER of Cooperative Selection Diversity in Nonregenerative MIMO Relaying
Phee Lep Yeoh (University of Sydney, Australia); Maged Elkashlan (CSIRO, ICT Centre, Australia); Iain B. Collings (CSIRO, Australia)

ONS01: Energy Efficiency

(Byrav Ramamurthy, University of Nebraska-Lincoln, US, byrav@cse.unl.edu)

Room: Tuttle North

Differentiated Energy Savings in Optical Networks with Grooming Capabilities
Farid Farahmand (Sonoma State University, USA); Mohammad Masud Hasan (University of Texas at Dallas, USA); Isabella Cerutti (Scuola Superiore Sant'Anna, Italy); Jason P. Jue (University of Texas at Dallas, USA); Joel J. Rodrigues (IT, University of Beira Interior, Portugal)

Energy-Efficient Design of Survivable WDM Networks with Shared Backup
Cicek Cavdar (Istanbul Technical University, Turkey); Feza Buzluca (Istanbul Technical University, Turkey); Lena Wosinska (Royal Institute of Technology KTH, Sweden)

Energy Efficient Time-Aware Traffic Grooming in Wavelength Routing Networks
Shuqiang Zhang (The Chinese University of Hong Kong, Hong Kong); Dong Shen (The Chinese University of Hong Kong, Hong Kong); Chun-Kit Chan (The Chinese University of Hong Kong, Hong Kong)

Energy-Efficient WDM Network Planning with Protection Resources in Sleep Mode
Ajmal Muhammad (Linköping University, Sweden); Paolo Monti (The Royal Institute of Technology (KTH), Sweden); Isabella Cerutti (Scuola Superiore Sant'Anna, Italy); Lena Wosinska (Royal Institute of Technology KTH, Sweden); Piero Castoldi (Scuola Superiore Sant'Anna, Italy); Anna Tzanakaki (AIT, Greece)

SPC01: Channel Estimation, Modeling and Equalization I

(Li Zhang, University of Leeds, l.x.zhang@leeds.ac.uk)

Room: Tequesta
Linear Minimum Mean-Squared Error Channel Estimation for Per-Subcarrier Antenna Selection
Cheran M Vithanage (Toshiba Research Europe Limited, United Kingdom); Stojan Denic (Toshiba/Bristol University, USA)
Low-Complexity Sparse FIR Channel Shortening
Ahmad Abdulrahman Gomaa (University of Texas at Dallas, USA); Naofal Al-Dhahir (University of Texas at Dallas, USA)
Multiple Carrier Frequency Offset and Channel Estimation for Distributed Relay Networks
Lokesh Bheema Thiagarajan (Institute for Infocomm Research, Singapore); Sumei Sun (Institute for Infocomm Research, Singapore); Patrick Ho Wang Fung (Institute for Infocomm Research, Singapore); Chin Keong Ho (Institute for Infocomm Research, Singapore)
Time Reversal Direction of Arrival Estimation With Cramer-Rao Bound Analysis
Amir Asif (York University, Canada); Foroohar Foroozan (York University, Canada)

WN01: Cognitive Networking I

(Tsung-Nan Lin, National Taiwan University, tsungnan@cc.ee.ntu.edu.tw) (Lijun Qian, Prairie View A&M University, lijunjian@ieee.org)

Room: Pearson II
Opportunistic Periodic MAC Protocol for Cognitive Radio Networks
Dongyue Xue (Ohio State University, USA); Xinbing Wang (Shanghai Jiaotong University, P.R. China); Eylem Ekici (The Ohio State University, USA)
Cognitive MAC Protocol with Transmission Tax: Dynamically Adjusting Sensing and Data Performance
Vojislav B. Misić (Ryerson University, Canada); Jelena Misić (Ryerson University, Canada)
Maximize Secondary User Throughput via Optimal Sensing in Multi-channel Cognitive Radio Networks
Shimin Gong (Nanyang Technological University, Singapore); Ping Wang (Nanyang Technological University, Singapore); Wei Liu (Huazhong University of Science and Technology, P.R. China); Wei Yuan (Huazhong University of Science and Technology, P.R. China)

A Real Time Testbed for the Evaluation of Cognitive Radio MAC
Shen Gu (Shanghai Jiao Tong University, P.R. China); Pengchao Xu (Shanghai Jiaotong University, P.R. China); Xinbing Wang (Shanghai Jiaotong University, P.R. China); Hui Yu (Shanghai Jiao Tong University, P.R. China); Xiaoying Gan (Shanghai Jiao Tong University, P.R. China)

WN13: 802.16 / WiMAX Networks I

(Maode Ma, Nanyang Technological University, maode_ma@pmail.ntu.edu.sg) (Jon Ward, Johns Hopkins University, jon.ward@jhuapl.edu)

Room: Gautier
Relay Station Placement for Cooperative Communications in WiMAX Networks
Dejun Yang (Arizona State University, USA); Xi Fang (Arizona State University, USA); Guoliang Xue (Arizona State University, USA); Jian Tang (Montana State University, USA)
Fairness Schemes in 802.16j Mobile Multihop Relay Networks
Yongchul Kim (North Carolina State University, USA); Mihail Sichitiu (North Carolina State University, USA)
Cross-layer Uplink Scheduler for the IEEE 802.16 standard
Flavio Adalberto Kubota (State University of Campinas, Brazil); Juliana Freitag Borin (University of Campinas, Brazil); Nelson L. S. da Fonseca (State University of Campinas, Brazil)
Cross-Layer Self-Optimizing Temporal-Spectrum Block Scheduling for QoS Provisioning in WiMAX
Maode Ma (Nanyang Technological University, Singapore)

WN1P: Topics in Wireless Networking I (poster)

(Abderrahmane Lakas, UAE University, alakas@uaeu.ac.ae)

Room: Riverfront North Hall
Critical Phase of Connectivity in Wireless Network Expansion
Bo Gu (University of Alabama, USA); Xiaoyan Hong (University of Alabama, USA)
Fast Heuristic Algorithm for Topology Design and Load Balancing in FSO Networks
Inkeun Son (Auburn University, USA); Shiwen Mao (Auburn University, USA)
A Reformulation-Linearization Technique-based Approach to Joint Topology Design and Load Balancing in FSO Networks
Inkeun Son (Auburn University, USA); Shiwen Mao (Auburn University, USA)
Cooperation Stimulation in Cognitive Networks Using Indirect Reciprocity Game Modelling
Yan Chen (University of Maryland, College Park, USA); K. J. Ray Liu (Department of Electrical and Computer Engineering, University of Maryland, USA)

Incentive Schemes for Data Collaboration in Disruption Tolerant Networks
Kamalavasan Srinivasan (Microsoft Corporation, USA); Sreejith Rajkumar (UW-Madison, USA); Parmesh Ramanathan (University of Wisconsin at Madison, USA)


(Jingxian Wu, University of Arkansas, wuj@uark.edu) (Debarati Sen, Samsung Electronics, India, debarati.sen@samsung.com)

Room: Merrick I
Routing and Link Layer Protocol Design for Sensor Networks with Wireless Energy Transfer
Rahman Doost Mohammady (Northeastern University, USA); Kaushik Chowdhury (Northeastern University, USA); Marco Di Felice (University of Bologna, Italy)

Deployment Algorithms for Wireless Underground Sensor Networks using Magnetic Induction
Zhi Sun (Georgia Institute of Technology, USA); Ian F. Akyildiz (Georgia Institute of Technology, USA)

Link Loss Inference in Wireless Sensor Networks with Randomized Network Coding
Vahid Shah-Mansouri (University of British Columbia, Canada); Vincent Wong (University of British Columbia, Canada)

A POMDP Based k-Coverage Dynamic Scheduling Protocol for Wireless Sensor Networks
Xin Fei (University of Ottawa, Canada); Azzedine Boukerche (Univ. of Ottawa, Canada); F. Richard Yu (Carleton University, Canada)

Tuesday, 7 December 2010, 10:00-11:10  Room: IBIS
CIS01 Privacy Protection 1

(Yan Huang, North Texas University, huangyan@unt.edu)

Privacy Preserving Group Nearest Neighbour Queries in Location-based Services using Cryptographic Techniques
Yan Huang, Roopa Vishwanathan (University of North Texas, US)

Sacrificing the Plum Tree for the Peach Tree: A Socialspot Tactic for Protecting Receiver-location Privacy in VANET,
Rongxing Lu (University of Waterloo, CA), Xiaodong Lin (University of Ontario Institute of Technology, CA), Xiaohui Liang, Sherman Shen (University of Waterloo, CA)

An Efficient Privacy-Preserving Publish-Subscribe Service Scheme for Cloud computing Yanping Xiao, Chuang Lin (Tsinghua University, CN), Yixin Jiang (University of Waterloo, CA) Xiaowen Chu (Hong Kong Baptist University, HK)

Privacy Protecting Identification For RFIDs
Behzad Malek, Ali Miri (University of Ottowa, CA)

Tuesday, 7 December 2010, 10:00-11:10 Room: Pearson I

CIS04 Network Coding and Attacks
(Dongsheng Wang, Tsinghua University, wds@tsinghua.edu.cn)

Trusted Network Coding in Wireless Ad Hoc Networks
Wei Cheng, Li Yu, Fei Xiong, Wei Wang (Huazhong University of Science and Technology, CN)

Preventing Traffic Explosion and Achieving Source Unobservability in Multi-hop Wireless Networks using Network Coding
Yanfei Fan (University of Waterloo, CA), Jiming Chen (Zhejiang University, CN), Xiaodong Lin (University of Ontario Institute of Technology, CA), Sherman Shen (University of Waterloo, CA)

Rethinking about Type-flaw Attacks
Zhiwei Li, Weichao Wang (University of North Carolina at Charlotte, US)

Tuesday, 7 December 2010, 10:00-11:10 Room: Riverfront North Hall

CIS1P CIS Poster Session 1 Internet Security A
(Yingfei Dong, University of Hawaii, yingfei@hawaii.edu)

A Lite Security Solution For SIP Networks
Samer El Sawda (University Pierre and Marie Curie - Paris 6, FR), Pascal Urien (Ecole Nationale Supérieure de Télécommunication, FR), Rami El Sawda (ESRGroups, FR)

Practical Searching Over Encrypted Data By Private Information Retrieval
Rei Yoshida (Chuo University, JP), Yang Cui (AIST, JP), Tomohiro Sekino (Chuo-University, JP)

Integrating Security with QoS in Next Generation
Tarik Taleb (NEC Europe Ltd., DE), Abderrahim Benslimane (University of Avignon, FR), Abdelouahid El yakoubi (University of Avignon, FR)
Ergodic Secrecy Rate for Gaussian MISO Wiretap Channels with Non-Trivial Covariance
Athina Petropulu, Jiangyuan Li (Drexel University, US)

Survivable SCADA Systems: An analytical framework using performance modeling
Carlos Queiroz, Abdun Mahmood, Zahir Tari (RMIT University, AU)

Accelerating String Matching Using Multi-threaded Algorithm on GPU
Cheng-Hung Lin, Sheng-Yu Tsai, Chen-Hsiung Liu, Shih-Chieh, Jyuo-Min Shyu
(National Tsing-Hua University, TW)

Tuesday, 7 December 2010  10:00-11:10   Room: Merrick II
CSSMA01: P2P and Social Networking Services
(Navjot Singh, Avaya Labs Research, USA, singh@research.avayalabs.com)

Impact of Network Address Translator Traversal on Delays in Peer-to-Peer Session Initiation Protocol
Jouni Mäenpää (Ericsson, FI)
Veera Andersson (Ericsson, FI)
Gonzalo Camarillo (Ericsson, FI)
Ari Keränen (Ericsson, FI)

Towards A Scalable Content-based Publish/Subscribe Service over DHT
Wei Li (University of British Columbia, CA), Son Vuong (University of British Columbia, CA)

Capability and Responsibility Balancing in Online Social Search
Kuang Xu (The University of Hong Kong, HK)
Victor Li (University of Hong Kong, CN)
Jing XIE (The University of Hong Kong, HK)
Guang-Hua Yang (The University of Hong Kong, HK)

Enabling Next Generation Multimedia Social Services
Jose Simoes (Fraunhofer FOKUS, DE)
Sebastian Lampe (Fraunhofer FOKUS, DE)
Thomas Magedanz (Fraunhofer FOKUS, DE)

Tuesday, 7 December 2010  10:00-11:10   Room: Orchard AB
CQRM01: Cognitive Radio and Networks I
(Chunxuan Ye, InterDigital Communications, USA, Chunxuan.Ye@InterDigital.com)

Efficient Channel Search Algorithms for Cognitive Radio in a Multichannel System
Yan Xin (NEC Laboratories America Inc., US)
Guosen Yue (NEC Laboratories America, Inc., US)
Lifeng Lai (University of Arkansas at Little Rock, US)

Performance Enhancement for Unlicensed Users in Coordinated Cognitive Radio Networks Via Channel Reservation
Xu Mao (Beijing University of Posts and Telecommunications, CN)
Hong Ji (Beijing University of Posts and Telecommunications, CN)
Victor Leung (The University of British Columbia, CA)
Ming Li (Beijing University of Posts and Telecommunications, CN)

Sensing Users Selection with Overhead Reduction for Cognitive Wireless Ad-Hoc Networks
Ferran Adelantado (Universitat Oberta de Catalunya, ES)
Angel Juan (Universitat Oberta de Catalunya, ES)
Harry Skianis (University of the Aegean, GR)
Christos Verikoukis (Telecommunications Technological Centre of Catalonia, ES)

Reliable Cooperative Spectrum Sensing Algorithm based on Dempster-Shafer Theory
Jing Li (University of Electronic Science and Technology of China, CN)
Jian Liu (University of Electronic Science and Technology of China, CN)
Keping Long (University of Electronic Science and Technology of China, CN)

Tuesday, 7 December 2010  10:00-11:10  Room: Hibiscus A
CQRM13: Access Control
(Toshinori Tsuboi, Tokyo University of Technology, Japan, tsuboi@cs.teu.ac.jp)

Connection Admission Versus Load Balancing
Shaunak Joshi (University of California, Los Angeles, US)
Przemyslaw PaweÅ‚czak (University of California, Los Angeles, US)
Sateesh Addepalli (Cisco, US)
John Villasenor (University of California, Los Angeles, US)
Danijela Cabric (University of California Los Angeles, US)

A Type-2 Fuzzy Logic Decision System for Call Admission Control in Next Generation Mobile Networks
Nora Boumella (University of Paris East CrÃ©teil, FR)

Admission Control Policies for Revenue and Utility Maximization in IEEE 802.16 networks
Juliana Freitag Borin (University of Campinas, BR)
Nelson L. S. da Fonseca (State University of Campinas, BR)

Analysis of a Distributed Queuing Medium Access Control Protocol for Cooperative ARQ
Jesus Alonso-Zarate (Centre TecnolÃ³gic de Telecomunicacions de Catalunya (CTTC), ES)
Luis Alonso (Universidad Politecnica de Catalunya, ES)
Harry Skianis (University of the Aegean, GR)
Christos Verikoukis (Telecommunications Technological Centre of Catalonia, ES)

Tuesday, 7 December 2010   10:00-11:10   Room: Gardenia

**SAC01: Deep Space Networking**

(William Ivancic, NASA Glenn Research Center, USA, william.d.ivancic@nasa.gov)

Joint Use of Custody Transfer and Erasure Codes in DTN Space Networks: Benefits and Shortcomings
  Tomaso De Cola (German Aerospace Center (DLR), Germany); Mario Marchese
  (DIST- University of Genoa, Italy)

Large-File Transfers from Space Using Multiple Ground Terminals and Delay Tolerant Networking
  William D. Ivancic (NASA Glenn Research Center, USA); Wesley M Eddy (MTI Systems, USA); Dave Stewart
  (Verizon Federal Network Systems, USA); Lloyd Wood (University of Surrey, United Kingdom); James Northam
  (Surrey Satellite Technology Ltd, United Kingdom); Chris Jackson (Surrey Satellite Technology Ltd, United Kingdom);
  John Taylor (Universal Space Network, USA); Jay Heberle (Universal Space Network, USA); Scott Lynch
  (Universal Space Network, USA); Phillip Paulsen (NASA Glenn Research Center, USA); James H McKim
  (RS Information Systems, USA)

Comparative Analysis of Interplanetary and Pervasive Communications
  Mario Marchese (DIST- University of Genoa, Italy)

Licklider Transmission Protocol (LTP)-based DTN for Long-delay Cislunar Communications
  Ruhai Wang (Lamar University, USA); Paavan Parik (Lamar University, USA); Ramakrishna Bhavanthula
  (Lamar University, USA); Jia Hou (Soochow University, P.R. China); Zhou Liu Lei (Soochow University, P.R.
  China); Tarik Taleb (NEC Europe Ltd., Germany)

Tuesday, 7 December 2010   10:00-11:10 Room: Flamingo

**NGN01: Packet Switching I**
(Si-Qing Zheng, University of Texas at Dallas, sizheng@utdallas.edu)

Design Packet Buffer Using Random Round Robin
  Dong Lin (Hong Kong University of Science & Technology, HK)
  Mounir Hamdi (Hong Kong University of Science and Technology, CN)
  Jogesh Muppala (The Hong Kong University of Science and Technology, HK)

Thermal Control for Crossbar-based Input-Queued Switches
  Andrea Bianco (Politecnico di Torino, IT);
Paolo Giaccone (Politecnico di Torino, IT);
Guido Masera (Politecnico di Torino, IT);
Marco Ricca (Politecnico di Torino, IT)

Modeling the Optimal Organization of Internet-Based Computation in the Cloud Computing Environment
Ji Lu (Tsinghua University, CN)
Yaoxue Zhang (Tsinghua University, CN)
Yuezhi Zhou (Tsinghua University, CN)

Achieving Flow Level Constant Performance Guarantees for CICQ Switches without Speedup
Hao Jin (Florida International University, USA)
Deng Pan (Florida International University, USA)
Deng Pan (Florida International University, USA)
Niki Pissinou (Florida International University, USA)
Kia Makki (Florida International University, USA)

Tuesday, 7 December 2010 10:00-11:10 Room: Riverfront North Hall
**NGN1P: Network applications and measurement**
(Sung-Ju Lee, HP Labs, sungju.lee@hp.com)

A Social Accountability Framework for Computer Networks
Kang Wang (McGill University, CA); Alexis Malozemoff (McGill University, CA)
Ning Jia (McGill University, CA)
Chunhui Han (McGill University, CA)
Muthucumaru Maheswaran (McGill University, CA)

Hierarchical Notification Dissemination for IMS Presence using Network Coordinates
Dylan Smith (Carleton University, CA)
Changcheng Huang (Carleton University, CA)
James Yan (Carleton University, CA)

Dynamics of Service Provider Selection in Communication Markets
Shaolei Ren (University of California, Los Angeles, US)
Jaeok Park (University of California, Los Angeles, US)
Mihaela van der Schaar (University of California, Los Angeles (UCLA), US)

Relative Delay Estimator for SCTP-based Concurrent Multipath Transfer
Fei Song (University of Cambridge, UK)
Zhang Hongke (Beijing Jiaotong University, CN)
Sidong Zhang (Beijing Jiaotong University, CN)
Fernando Ramos (University of Cambridge, UK)
Jon Crowcroft (University of Cambridge, UK)
Empirical analysis of core-edge separation by decomposing Internet topology graph
Yangyang Wang (Tsinghua University, CN)
Jun Bi (Tsinghua University, CN)
Jianping Wu (Tsinghua University, CN)

Tuesday, 7 December 2010   10:00-11:10 Room: Brickell North
**WC01: MIMO I**
(Seshadri Mohan, University of Arkansas at Little Rock, sxmohan@ualr.edu; George Efthymoglou, University of Piraeus, gefthymo@unipi.gr)

MU-MIMO Downlink Transmission Strategy Based on the Distributed Antennas for 3GPP LTE-A
Yifan Yu (France Telecom R&D Beijing, China)

Performance Benchmark for Network MIMO Systems: A Unified Approach for MMSE Transceiver Design and Performance Analysis
Jialing Li, Enoch Lu (Polytechnic Institute of New York University, USA), I-Tai Lu (Polytechnic University, USA)

Optimality Properties and Low-Complexity Solutions to Coordinated Multicell Transmission
Emil Björnson, Mats Bengtsson, Björn Ottersten (Royal Institute of Technology, Sweden)

Updated Basis Lattice Reduction based Sequential User Selection for Multiuser MIMO Systems
Lin Bai (Swansea University, United Kingdom), Chen Chen (Peking University, China), Jinho Choi (Swansea University, United Kingdom), Cong Ling (Imperial College London, United Kingdom)

Tuesday, 7 December 2010   10:00-11:10 Room: Brickell Center
**WC13: Cognitive Radio I**
(Husheng Li, The University of Tennessee, husheng@eecs.utk.edu; Ariton Xhafa, Texas Instruments, axhafa@ti.com)

Achieving Energy Efficiency via Drowsy Transmission in Cognitive Radio
Kun Zheng, Husheng Li (University of Tennessee, USA)

Statistical Modeling of Cognitive Network Interference
Alberto Rabbachin (Joint Research Centre, European Commission, Italy), Tony Q. S. Quek (Institute for Infocomm Research, Singapore), Moe Z. Win (MIT, USA)

Impact of Noise Power Uncertainty on Cooperative Spectrum Sensing in Cognitive Radio Systems
Karama Hamdi (Hong Kong University of Science and Technology, Hong Kong), Xiang Nian Zeng, Ali Ghayeb (Concordia University, Canada), Khaled Letaief (Hong Kong University of Science & Technology, Hong Kong)

Learning Interference Strategies in Cognitive ARQ Networks
Sina Firouzabadi, Marco Levorato, Daniel O'Neill, Andrea Goldsmith (Stanford University, USA)

Tuesday, 7 December 2010   10:00-11:10 Room: Brickell South
**WC25: Cooperative Communications I**
(Sana sfar, Interdigital,  Sana.sfar@IEEE.org)

Packet-Reliability-Based Decode-and-Forward Distributed Space-Time Shift Keying
Shinya Sugiura, Sheng Chen, Lajos Hanzo (University of Southampton, United Kingdom)

An analysis of two-way multi-node relay systems
Zhiyong Chen (Beijing University of Posts and Telecommunications, China), Hui Liu (University of Washington, USA), Wenbo Wang (Beijing University of Posts and Telecommunications, China)

Amplify-and-Forward Selection Cooperation with Channel Estimation Error
Mehdi Seyfi, Sami Muhaidat, Jie Liang (Simon Fraser University, Canada)

Power Optimization in Adaptive Relay Networks
Aimal Khan, Volker Kuehn (University of Rostock, German)

Tuesday, 7 December 2010   10:00-11:10 Room: Orchard D
**WC37: Beamforming I**
(Youngchul Sung, KAIST,  ysung@ee.kaist.ac.kr)

Low-complexity Coordinated Beamforming Transmission for Multiuser MISO Systems and its Performance Analysis
Jun Zhu, Hong-Chuan Yang (University of Victoria, Canada)

MIMO Transmission with Rank Adaptation for Multi-Gigabit 60 GHz Wireless
Meilong Jiang, Guosen Yue, Sampath Rangarajan (NEC Labs America, USA)

Impact of Imperfect Channel Estimation Errors in MIMO Two Hop Relay Network with Beamforming
Karaputugala Gam Acharige Thilina, Nandana Rajatheva (Asian Institute of Technology, Thailand)

Frequency-Domain Digital Calibration and Beamforming with Wideband Antenna Array
Xiaoqing Huang, Val Dyadyuk (CSIRO, Australia)
Tuesday, 7 December 2010  10:00-11:10 Room: Orchard C

**WC49: Cross-layer Design**
(Xinsheng Zhao, Southeast University, xszhao@seu.edu.cn)

Cross-layer Design for Interference-limited Spectrum Sharing Systems
Krishna Nehra, Amir Shadmand, Mohammad Shikh-Bahaei (Kings college London, United Kingdom)

Routing and Power Allocation in MIMO Two-way Multihop Networks: A New Cross-layer Approach to Mitigate Interference
Rindranirina Ramamonjison, JongHyun Lee, Kei Sakaguchi, Kiyomichi Araki (Tokyo Institute of Technology, Japan)

Cross-Layer Channel Allocation Protocol for OFDMA Ad Hoc Networks
Marzieh Veyseh, JJ Garcia-Luna-Aceves, Hamid Sadjadpour (University of California, Santa Cruz, USA)

Multi-User Buffer Control with Drift Fields
Vinay Majjigi, Daniel O'Neill (Stanford University, USA), Carolin Huppert (Ulm University, German), John Cioffi (Stanford University, USA)

Tuesday, 7 December 2010  10:00-11:10 Room: Riverfront North Hall

**WC1P: Cognitive Radio Systems**
(Jelena Misic, Ryerson University, jmisic@scs.ryerson.ca)

Efficiency of filter bank multicarrier techniques in burst radio transmission
Maurice Bellanger (CNAM, France)

On the Throughput Maximization of Spectrum Sharing Cognitive Radio Networks
Stergios Stotas, Nallanathan Arumugam (King's College London, United Kingdom)

A Framework for Resource Allocation in a Cognitive Digital Home
Tianming Li, Narayan Mandayam (WINLAB, Rutgers University, USA), Alex Reznik (InterDigital, USA)

Opportunistic Spectrum Access in Cognitive Relay Networks based on White Space Modeling
Zhe Wang, Wei Zhang (University of New South Wales, Australia)

Performance Analysis of Cognitive Radio Systems under QoS Constraints and Channel Uncertainty
Sami Akin, M. Cenk Gursoy (University of Nebraska-Lincoln, US)
Tuesday, December 7

11:20 - 12:30

AHSN02: Routing II

(Burkhard Stiller, University of Zürich, CH, stiller@tik.ee.ethz.ch)

Room: Tuttle South

Opportunistic Routing with Adaptive CSMA/CA in Wireless Mesh Networks
Mathias Kurth (Humboldt University Berlin, Germany); Jens-Peter Redlich (Humboldt University Berlin, Germany)

GW-GEM: A Reliable Routing Algorithm for Wireless Sensor Networks
Qiang Ye (University of Prince Edward Island, Canada); Junjian Li (University of Prince Edward Island, Canada); Yanxia Jia (Arcadia University, USA); Hongwei Du (University of Prince Edward Island, Canada)

Maximum Lifetime Broadcast and Multicast Routing in Unreliable Wireless Ad-hoc Networks
Song Guo (The University of British Columbia, Canada); Victor CM Leung (The University of British Columbia, Canada)

EMAC: An Asynchronous Routing-Enhanced MAC Protocol in Multi-hop Wireless Networks
Shu Du (Texas Instruments, USA); Yanjun Sun (Texas Instruments, USA); David B. Johnson (Rice University, USA)

AHSN14: Clustering V

(Yu Cheng, Illinois Institute of Technology, US, cheng@iit.edu)

Room: Tuttle Center

Message Authentication with Non-transferability for Location Privacy in Mobile Ad hoc Networks
Xiaohui Liang (University of Waterloo, Canada); Rongxing Lu (University of Waterloo, Canada); Xiaodong Lin (University of Ontario Institute of Technology, Canada); Sherman Shen (University of Waterloo, Canada)

A Bayesian Statistical Model to Alleviate Greediness in Wireless Mesh Networks
Soufiene Djahel (LIFL – UMR CNRS USTL 8022 – IRCICA, University of Lille, France); Youcef Begriche (IEEE, France); Farid Naït-Abdesselam (University of Lille, France)

Deploying Proxy Signature In VANETs
Subir Biswas (Univerisity of Manitoba, Canada); Jelena Misic (Ryerson University, Canada)

Mobi-Sync:Efficient Time Synchronization for Mobile Underwater Sensor Networks
Jun Liu (University of Connecticut, USA); Zhong Zhou (University of connecticut, USA); Zheng Peng (University of Connecticut, USA); Jun-Hong Cui (University of Connecticut, USA)
AHSN26: Topology Control

(Marco Roccetti, University of Bologna, IT, roccetti@cs.unibo.it)

Room: Jasmine

Degree Constrained Topology Control for Very Dense Wireless Sensor Networks
Jaewook Yu (Stony Brook University, USA); Eric Noel (AT&T Labs - Research, USA); Wendy Tang (Stony Brook University, USA)

Topology Aware Link Throughput of Slotted Aloha in Rayleigh Block Fading Channels
Arash Tahmasebi Toyserkani (Chalmers Technical University, Sweden, Sweden); Erik G Ström (Chalmers University of Technology, Sweden); Arne Svensson (Chalmers University of Technology, Sweden)

Connectivity Restoration in Wireless Sensor Networks using Steiner Tree Approximations
Mohamed Younis (University of Maryland Baltimore County, USA); Rahul Waknis (University of Maryland Baltimore County, USA)

Optimal Sensor Density in a Distortion-Tolerant Linear Wireless Sensor Network
Jingxian Wu (University of Arkansas, USA); Ning Sun (University of Arkansas, USA)

AHSN2P: Topics in Ah Hoc, Sensor, and Mesh Networks II (Poster)

(Qilian Liang, University of Texas at Arlington, US, liang@uta.edu)

Room: Riverfront North Hall

Secured Two Phase Geographic Forwarding Protocol in Wireless Multimedia Sensor Networks
Taye Mulugeta (Addis Ababa University, Ethiopia); Lei Shu (Osaka University, Japan, Japan); Manfred Hauswirth (DERI Galway, Ireland); Min Chen (Seoul National University, Korea); Takahiro Hara (Osaka University, Japan); Shojiro Nishio (Osaka University, Japan)

Dynamic Slot Allocation Algorithm for R-ALOHA with Priority (PR-ALOHA)
Nesreen Alsbou (Oklahoma University, USA); Hazem Refai (Oklahoma University, USA)

Solution Space Characterization and a Fast Algorithm for the Channel Assignment Problem in Wireless Mesh Networks
Jose Barrameda (University of Ottawa, Canada); Nancy Samaan (University of Ottawa, Canada)

Self-Deployment Algorithms for Coverage Problem in a Network of Mobile Sensors with Unidentical Sensing Range
Hamid Mahboubi (Concordia University, Canada); Kaveh Moezzi (Concordia University, Canada); Amir Aghdam (Concordia University, Canada); Kamran Sayrafian-Pour (NIST, USA); Vladimir Marbukh (National Institute of Standards and Technology, USA)

Waveform Design and Optimization in Radar Sensor Network
Lei Xu (UTA, USA); Qilian Liang (University of Texas at Arlington, USA)
Chip Design of a 0.18μm RF CMOS-based Analog Low-pass Filter for WSN RF Front-end
Xiangning Fan (Southeast University, P.R. China); Chisheng Zhu (Southeast University, P.R. China); Lei Zhang (Southeast University, P.R. China)

CT02: Broadcast Channels

(B. Sundar Rajan, Indian Institute of Science, bsrajan@ece.iisc.ernet.in)

Room: Hibiscus B
ROME: Rateless Online MDS Code for Wireless Data Broadcasting
    Nengqiang He (Tsinghua University, P.R. China); Yi Xu (Tsinghua University, P.R. China); Jiannong Cao (Hong Kong Polytechnic Univ, Hong Kong); Zhu Li (Hong Kong Polytechnic University, Hong Kong); Hongyang Chen (University of Tokyo, Japan); Yong Ren (Tsinghua University, Beijing, P.R. China)
MIMO Bidirectional Broadcast Channels with Common Message
    Rafael F. Wyrembelski (Technische Universität Berlin, Germany); Tobias J. Oechtering (Royal Institute of Technology, Sweden); Holger Boche (Technical University of Berlin, Germany)
Degrees of Freedom Region of the Gaussian MIMO Broadcast Channel with Common and Private Messages
    Ersen Ekrem (University of Maryland, USA); Sennur Ulukus (University of Maryland, USA)
On the use of the gap approximation for the Gaussian broadcast channel
    Dimitris Toumpakaris (University of Patras, Greece, Greece); Jungwon Lee (Marvell Semiconductor, USA)

ONS02: Monitoring

(Jaafar Elmirghani, University of Leeds, UK, j.m.h.elmirghani@leeds.ac.uk)

Room: Tuttle North
A New Heuristic for Monitoring Trail Allocation in All-Optical WDM Networks
    Yangming Zhao (University of Electronic Science and Technology of China, P.R. China); Shizhong Xu (Univ. of electronic science and technology, P.R. China)
Optimal Allocation of Monitoring Trails for Fast SRLG Failure Localization in All-Optical Networks
    Bin Wu (University of Waterloo, Canada); Pin-Han Ho (University of Waterloo, Canada); János Tapolcai (Budapest University of Technology and Economics, Hungary)
Monitoring-Tree: an Innovative Technique for Failure Localization in WDM Translucent Networks
    Elias A. Doumith (TELECOM ParisTech, France); Sawsan Al Zahr (TELECOM ParisTech, France); Maurice Gagnaire (Ecole Nationale Superieure des Telecommunications, France)
Analyzing the Receiver Operating Characteristics of Novel Fiber Ring Based PON Monitoring System
Maged Abdullah Esmail (King Saud University, Saudi Arabia); Habib Fathallah (Université Laval, Canada)

**SPC02: Channel Estimation, Modeling and Equalization II**

*(Lee Swindlehurst, University of California at Irvine, swindle@uci.edu)*

Room: Tequesta
ML Estimation of Signal Amplitude in Laplace Noise
Norman C. Beaulieu (University of Alberta, Canada); Sijing Jiang (University of Alberta, Canada)

Indoor Channel Measurements and Models at 2.4 GHz in a Hospital
Ruben de Francisco (IMEC / Holst Centre, The Netherlands)

Reduced-Complexity Soft-Output Viterbi Algorithm for Channels Characterized by Dominant Error Events
Ravi Motwani (Broadcom Corp, USA)

AMC Improvements from Robust Estimation
Amy Malady (DSPRL - Wireless@VT, USA); A. A. (Louis) Beex (DSPRL - Wireless@VT, USA)

**WN02: Dynamic Spectrum Access I**

*(Husheng Li, University of Tennessee, husheng@eecs.utk.edu) (Lijun Qian, Prairie View A&M University, lijunqian@ieee.org)*

Room: Pearson II
Optimization of Periodic Channel Sensing by Secondary Users in a Cognitive Radio Network
Dongyue Xue (Ohio State University, USA); Xinbing Wang (Shanghai Jiaotong University, P.R. China); Ekram Hossain (University of Manitoba, Canada)

Opportunistic Energy-Aware Channel Sensing Schemes for Dynamic Spectrum Access Networks
Hang Su (Texas A&M University, USA); Xi Zhang (Texas A&M University, ECE Department, USA)

Collaborative Spectrum Sensing Based on Signal Correlation in Cognitive Radio Networks
Chengnian Long (Shanghai Jiaotong University, P.R. China); Haifeng Wang (Yanshan University, P.R. China); Bo Li (Hong Kong University of Science and Technology, Hong Kong)

**WN14: 802.11 Wireless Networks I**
Room: Gautier
A Game Theoretical Approach for Load Balancing User Association in 802.11 Wireless Networks
   Wenchao Xu (ZheJiang University, P.R. China); Cunqing Hua (Zhejiang University, P.R. China); Aiping Huang (Zhejiang University, P.R. China)
Adaptive Carrier-Sensing for Throughput Improvement in IEEE 802.11 Networks
   Ehsan Haghani (University of California, Berkeley, USA); Michael Krishnan (University of California, Berkeley, USA); Avidah Zakhir (University of California at Berkeley, USA)
Adaptive Spectrum Distribution in WLANs
   Fatima Zarinni (Stony Brook University, USA); Samir R. Das (Stony Brook University, USA)
Measurement Based Investigation of Indoor IEEE 802.11g Channel Dynamics
   Shaoen Wu (University of Southern Mississippi, USA); Honggang Wang (University of Massachusetts, Dartmouth, USA)

WN26: Delay Tolerant Networks I

(Marcello Caleffi, University of Naples "Federico II", marcello.caleffi@unina.it)
(Yu Wang, UNC-Charlotte, yu.wang@uncc.edu)

Room: Merrick I
A Socially-based Routing Protocol For Delay Tolerant Networks
   Tamer A AbdelKader (University of Waterloo, Canada); Kshirasagar Naik (University of Waterloo, Canada); Amiya Nayak (SITE, University of Ottawa, Canada); Nishith Goel (Cistel, Canada)
Trust Management for Encounter-Based Routing in Delay Tolerant Networks
   Ing-Ray Chen (Virginia Tech, USA); Fenye Bao (Virginia Tech, USA); Moonjeong Chang (Virginia Tech, USA); Jin-Hee Cho (U.S. Army Research Laboratory, USA)
Prediction Assisted Single-copy Routing in Underwater Delay Tolerant Networks
   Zheng Guo (University of Connecticut, USA); Bing Wang (University of Connecticut, USA); Jun-Hong Cui (University of Connecticut, USA)
Improving Dominating Set Routing Performance Via Node Mobility Model
   Hany Samuel (University of Waterloo, Canada); Weihua Zhuang (University of Waterloo, Canada); Bruno R. Preiss (Research In Motion, Canada)

WN2P: Resource Management in Wireless Networks I (poster)

(Ruonan Zhang, Northwest Polytechnical University, rzhang@ieee.org)

Room: Riverfront North Hall
An Energy Efficient Network Architecture for Infrastructured Wireless Networks
Satyanarayana Degala (University of Leeds, United Kingdom); Jaafar Elmirghani (University of Leeds, United Kingdom)

Dimming Cellular Networks
David Tipper (University of Pittsburgh, USA); Abdelmounaam Rezgui (University of Pittsburgh, USA); Prashant Krishnamurthy (University of Pittsburgh, USA); Peera Pacharintanakul (University of Pittsburgh, USA)

Resource Utilization Mechanism for Multi-rate Ultra-wide Band Networks
Raed Taleb Al-Zubi (University of Arizona, USA); Marwan Krunz (University of Arizona, USA); Leo Lopes (University of Arizona, USA)

Inter-operator Resource Sharing Decisions Under Uncertainty
Ahmet C Toker (TU-Berlin DAI Labor, Germany); Fikret Sivrikaya (Technische Universität Berlin, Germany); Sahin Albayrak (Technische Universität Berlin, Germany); Bulent Yener (RPI, USA)

Optimal Bandwidth Allocation With Dynamic Service Selection in Heterogeneous Wireless Networks
Kun Zhu (Nanyang Technological University, Singapore); Dusit Niyato (Nanyang Technological University, Singapore); Ping Wang (Nanyang Technological University, Singapore)

When Idle is not Quite: Energy-Efficient Platform Design in Presence of Network Background and Management Traffic
Sameh Gobriel (Intel Corporation, USA); Christian Maciocco (Intel Corp., USA); Tsung-Yuan (Charles) Tai (Intel Corporation, USA)

Tuesday, 7 December 2010, 11:20-12:30   Room: IBIS

CIS02 Privacy Protection 2

Jinyuan Sun, Univ. of Florida, stellas@ufl.edu

Preserving Privacy in Emergency Response Based on Wireless Body Sensor Networks
Jinyuan Sun (University of Florida, US), Xiaoyan Zhu (Xidian University, CN), Yuguang Fang (University of Florida, US)

On the Privacy of Encrypted Skype Communications
Benoit Dupasquier, Stefan Burschka, Kieran McLaughlin, Sakir Sezer (Queen's University Belfast, UK)

FLIP: An Efficient Privacy-preserving Protocol for Finding Like-minded Vehicles on the Road
Rongxing Lu (University of Waterloo, CA), Xiaodong Lin (University of Ontario Institute of Technology, CA), Xiaohui Liang, Sherman Shen (University of Waterloo, CA)

Privacy Enhanced RFID Using Quasi-Dyadic Fix Domain Shrinking
Tomohiro Sekino (Chuo-University, JP), Yang Cui (AIST, JP), Kazukuni Kobara (AIST, JP), Hideki Imai (Chuo University, JP)
Tuesday, 7 December 2010, 11:20-12:30   Room: Pearson I

**CIS05 Wireless and RFID Security**
(Charles Clancy, Verginia Tech, tcc@vt.edu)

Practical Defenses for Evil Twin Attacks in 802.11
Harold Gonzales, Kevin Bauer (University of Colorado at Boulder, US), Janne Lindqvist (Carnegie Mellon University, US), Damon McCoy (University of Colorado at Boulder, US)

Authenticating MIMO Transmissions Using Channel-Like Fingerprinting
Nathan Goergen, Wanyi Lin, K. J. Ray Liu, T. Charles Clancy (University of Maryland, US)

A Lightweight Stream Cipher WG-7 for RFID Encryption and Authentication
Yiyuan Luo (Shanghai Jiao Tong University, CN), Qi Chai, Guang Gong (University of Waterloo, CA), Xuejia Lai (Shanghai Jiao Tong University, CN)

ACSP: A Novel Security Protocol against Counting Attack for UHF RFID Systems
Ce Chen, Zhuzhong Qian (Nanjing University, CN), Ilsun You (Korean Bible University, KR), Jue Hong, Sanglu Lu (Nanjing University, CN)

Tuesday, 7 December 2010, 11:20-12:30   Room: Riverfront North Hall

**CIS2P CIS Poster Session 2 Wireless Security A**
(Kejie Lu, University of Puerto Rico at Mayagüez, kejie.lu@upr.edu)

Credit-based Mechanism Protecting Multi-hop Wireless Networks from Rational and Irrational Packet Drop
Mohamed Mahmoud, Sherman Shen (University of Waterloo, CA)

Quantum Location Verification in Noisy Channels
Robert Malaney (University of New South Wales, AU)

SinPack: A Security Protocol for Preventing Pollution Attacks in Network-Coded Content Distribution Networks
Wassim Itani, Cesar Ghali, Ahmad El-Hajj, Ayman Kayssi, Ali Chehab (American University of Beirut, LB)

A Distributed Multi-Target Software Vulnerability Discovery and Analysis Infrastructure for Smart Phones
Thandava Krishnan Saidapet Padmanabhan, Wang Hao Lee, Lavany Devi D/O Suppiah, Sathya SA (Institute for Infocomm Research, SG)

MIMO Cross-Layer Secure Communication Architecture Based on STBC
Hong Wen, Guang Gong, Pin-Han Ho (University of Waterloo, CA)

Fast Message Authentication Code for Multiple Messages with Provable Security
Aida Vosoughi, Rajendra Katti (North Dakota State University, US)

Tuesday, 7 December 2010   11:20-12:30   Room: Merrick II
CSSMA02: Location Measurement
(Thomas Schmidt, HAW Hamburg, Germany, schmidt@informatik.haw-hamburg.de)

GAC: Energy-Efficient Hybrid GPS-Accelerometer-Compass GSM Localization
Moustafa Youssef (Nile University, EG)
Mohamed Yosef (Alexandria University, EG)
Mohamed El-Derini (Faculty of Engineering, Alexandria University, EG)

Accurate Indoor Location Estimation by Incorporating the Importance of Access Points in Wireless Local Area Networks
Shih-Hau Fang (Yuan Ze University, TW)
Tsung-Nan Lin (National Taiwan University, TW)

Energy Efficient Assisted GPS Measurement and Path Reconstruction for People Tracking
Robin Wentao Ouyang (Hong Kong University of Science and Technology, HK)
Albert K. Wong (Hong Kong University of Science and Technology, HK)
Mung Chiang (Princeton University, US)
Kam-tim Woo (Hong Kong University of Science and Technology, HK)
Victoria Ying Zhang (The Hong Kong University of Science and Technology, HK)
Hongseok Kim (The University of Texas at Austin, US)
Xiaoming Xiao (Hong Kong University of Science and Technology, HK)

Controlling Overload in SIP Proxies: An Adaptive Window Based Approach Using No Explicit Feedback
Maryam Homayouni (Iran University of Science and Technology, IR)
Hani Nemati (Iran university of science and technology, IR)
Vahid Azhari (Iran University of Science and Technology (IUST), IR)
Ahmad Akbari(Iran university of science and technology, IR)

Tuesday, 7 December 2010   11:20-12:30   Room: Orchard AB
CQRM02: Cognitive Radio and Networks II
(Chunxuan Ye, InterDigital Communications, USA, Chunxuan.Ye@InterDigital.com)

Modelling and Analysis of Dynamic Spectrum Access in Cognitive Radio Networks with Self-Similar Traffic
Lei Liu (University of Bradford, UK)
Xiaolong Jin (University of Bradford, UK)
Geyong Min (University of Bradford, UK)
Jia Hu (University of Bradford, UK)

A Cognitive Approach for Cross-Layer Performance Management
Neumar Malheiros (University of Campinas, BR)
Dzmitry Kliazovich (University of Luxembourg, LU)
Fabrizio Granelli (University of Trento, IT)
Edmundo Madeira (State University of Campinas, BR)
Nelson L. S. da Fonseca (State University of Campinas, BR)

Identifying Relevant Cross-Layer Interactions in Cognitive Processes
Christian Facchini (University of Trento, IT)
Fabrizio Granelli (University of Trento, IT)
Nelson L. S. da Fonseca (State University of Campinas, BR)

Quality of Experience aware multimedia provisioning with Cross-layer Autonomic Network Management
René Serral-Gracià (Technical University of Catalunya (UPC), ES)
Eva Marin/Tordera (Technical University of Catalonia UPC, ES)
Marcelo Yannuzzi (Technical University of Catalonia (UPC), ES)
Xavier Masip-Bruin (Universitat Politècnica de Catalunya, ES)
Sergio Sánchez-López (Technical University of Catalonia, ES)

Tuesday, 7 December 2010   11:00-12:30   Room: Hibiscus A
CQRM14: Internet
(Qiang Duan, The Pennsylvania State University - Abington, USA, qduan@psu.edu)

Constructing Candidate Network Topologies Using Multiagent System
Noriaki Kamiyama (NTT Service Integration Laboratories, JP)

Delay analysis and queue-length distribution of a slotted Metro Network using Embedded Discrete Time Markov Chain
Tulin Atmaca (IT/Telecom & Management SudParis, FR)

Performance of TCP in Intermittently Connected Wireless Networks: Analysis and Improvement
Yun Li (ChongQing University of Posts and Telecommunications of China, CN)
Shiyong Lei (Research Center for Wireless Networks, CQUPT, CN)
Xiaohu You (National Mobile communication Research Lab., Southeast University, CN)
Qilie Liu (Chongqing University of Posts and Telecommunications, CN)
Kazem Sohraby (University of Arkansas, US)

The Skeleton of the Internet
Márton Csernai (Budapest University of Technology, HU)
SAC02: Cognitive Radio and Learning
(Octavia Dobre, Memorial University Canada, odobre@mun.ca)

Learning Through Reinforcement for Repeated Power Control Game in Cognitive Radio Networks
Pan Zhou (Georgia Institute of Technology, US), Yusun Chang (The Georgia Institute of Technology, US), John Copeland (Georgia Institute of Technology, US)

A Bargaining Game for Channel Access in Dynamic Spectrum Access Networks
Swastik Brahma (University of Central Florida, US), Mainak Chatterjee (University of Central Florida, US)

A Nash-Stackelberg Fuzzy Q-Learning Decision Approach in Heterogeneous Cognitive Networks
Majed Haddad (Orange-Labs, FR), Zwi Altman (France Telecom R&D, FR), Salah Eddine Elayoubi (Orange Labs, FR), Eitan Altman (INRIA, FR)

Efficiency-Revenue Optimality Tradeoffs in Dynamic Spectrum Allocation
Majid Alkaee Taleghan (Oregon State University, US), Bechir Hamdaoui (Oregon State University, US)

NGN02: Packet Switching II
(Wojciech Kabacinski, Poznan University of Technology, wojciech.kabacinski@et.put.poznan.pl)

Multistage Software Routers in a Virtual Environment
Andrea Bianco (Politecnico di Torino, IT)
Robert Birke (Politecnico di Torino, IT)
Luca Giraudo (Politecnico di Torino, IT)
Nanfang Li (Politecnico di Torino, IT)

Performance Guarantees in Partially Buffered Crossbar Switches
Lotfi Mhamdi (Delft University of Technology, NL)
Nikolaos Skalis (TU Delft, NL)

A Container-based Fast Bridge for Virtual Routers on Commodity Hardware
Manel Bourguiba (Université Pierre et Marie Curie Paris 6, FR)
Kamel Haddadou (LIP6 University of Paris 6, FR)
Guy Pujolle (University of Paris 6, FR)
Making Contention-Tolerant Crossbar Switch Scalable
Hyung Jae Chang (University of Texas at Dallas, US)
Guannan Qu (Jilin University, P.R. China, US)
Jianping Wang (City University of Hong Kong, HK)
Si-Qing Zheng (University of Texas at Dallas, US)

Tuesday, 7 December 2010  11:20-12:30 Room: Riverfront North Hall
NGN2P: Network Virtualization & Cloud Computing
(Csaba Kiraly, University of Trento, kiraly@disi.unitn.it)

Privacy Exposure of Online Social Search
Kuang Xu (The University of Hong Kong, HK)
Victor O. K. Li (University of Hong Kong, CN)

Reducing Crosspoint Buffers for Performance Guaranteed Asynchronous Crossbar Scheduling
Masoumeh Karimi (Florida International University, USA)
Zhou Sun (Florida International University, USA)
Deng Pan (Florida International University, USA)

Energy-Information Transmission Tradeoff in Green Cloud Computing
Amir-Hamed Mohsenian-Rad (University of Toronto, CA)
Alberto Leon-Garcia (University of Toronto, CA)

Game Theory Based Bandwidth Allocation Scheme for Network Virtualization
Zhou Ye (Tsinghua University, CN)
Yong Li (Tsinghua University, CN)
Sun Guang (Tsinghua University, CN)
Depeng Jin (Tsinghua University, CN)
Li Su (Tsinghua University, CN)
Lieguang Zeng (Tsinghua University, CN)

SplitAP: Leveraging Wireless Network Virtualization For Flexible Sharing Of WLANs
Gautam Bhanage (Rutgers University, US)
Dipti Vete (Rutgers University, US)
Ivan Seskar (Rutgers University, US)
Dipankar Raychaudhuri (Rutgers Univ., US)

Tuesday, 7 December 2010  11:20-12:30 Room: Brickell North
WC02: MIMO II
(Emad Alsusa, University of Manchester, e.alsusa@manchester.ac.uk; Senad Busovaca, California State University, busovaca@gaia.ecs.csus.edu)

On the Performance of SSK Modulation over Multiple-Access Rayleigh Fading Channels
Marco Di Renzo (French National Center for Scientific Research (CNRS), France),
Harald Haas (The University of Edinburgh, United Kingdom)

Channel inversion in MIMO systems over Rician fading
Damith Senaratne (University of Alberta, Canada), Himal Suraweera (National
University of Singapore, Singapore), Chintha Tellambura (University of Alberta, Canada)

Time-Out Lattice Sequential Decoding for the MIMO ARQ Channel
Walid AbedIseid, Mohamed Oussama Damen (University of Waterloo, Canada)

On the Power Allocation for Relay Networks with Finite Alphabet Constraint
Weiliang Zeng, Mingxi Wang, Chengshan Xiao (Missouri University of Science and
Technology, USA), Jianhua Lu (Tsinghua University, China)

Tuesday, 7 December 2010  11:20-12:30 Room: Brickell Center
**WC14: Cognitive Radio II**
(Husheng Li, The University of Tennessee, husheng@eecs.utk.edu; Sonia Aissa, 
University of Quebec, INRS-EMT, sonia.aissa@ieee.org)

Distributed Cooperative Multi-channel Spectrum Sensing based on Dynamic Coalitional
Game
Weiwei Wang, Behzad Kasiri, Jun Cai, Attahiru Alfa (University of Manitoba, Canada)

Modeling of Interference from Cooperative Cognitive Radios for Low Power Primary
Users
Prasanna Madhusudhanan, Juan Restrepo, Youjian (Eugene) Liu, Timothy Brown, 
Kenneth Baker (University of Colorado at Boulder, USA)

A Cognitive Transmission Scheme with the Best Relay Selection in Cognitive Radio
Networks
ZOU YuLong (Stevens Institute of Technology, US), ZHU JIA, Baoyu Zheng (Nanjing
Univ. of Posts and Telecommunications, China), Yu-Dong Yao (Stevens Institute of
Technology, USA)

High-Diversity Cooperative Spectrum Sensing in Cognitive Radio Networks
Guobing Li (Xi'an Jiaotong University, China), Alfonso Cano (University of Minnesota,
USA), Shihua Zhu (Xi'an Jiaotong University, China)

Tuesday, 7 December 2010  11:20-12:30 Room: Brickell South
**WC26: Cooperative Communications II**
(Bala Natarajan, Kansas State University, bala@k-state.edu; Sana sfar, Interdigital, 
Sana.sfar@IEEE.org)

On the Achievability in Cooperative Amplify and Forward Wireless Relay Network
Rajet Krishnan, Bala Natarajan (Kansas State University, USA)
Opportunistic Routing in Ad Hoc Networks: How many relays should there be? What rate should nodes use?  
Joseph Blomer, Nihar Jindal (University of Minnesota, USA)

Performance Analysis of Dual-Hop Relaying Systems in the Presence of Co-Channel Interference  
Salama Ikki (University of Waterloo, Canada), Sonia Aissa (University of Quebec, Canada)

Finite-SNR Diversity-Multiplexing Tradeoff for Two-Way Multi-Antenna Relay Fading Channels  
Xiaochen Lin, Meixia Tao (Shanghai Jiao Tong University, China), Youyun Xu (PLA University of Science & Technology, China)

Tuesday, 7 December 2010   11:20-12:30 Room: Orchard D  
**WC38: Beamforming II**  
(Marios Kountouris, Supelec, marios.kountouris@supelec.fr)

Optimal Beamforming in MIMO Two-Way Relay Channels  
Xiyuan Wang (Tsinghua University, China), Xian-Da Zhang (Tsinghua University, Taiwan)

Downlink Transmit Beamforming for Inter-cell Interference Mitigation with CoMP  
Uk Jang, Kang Yong Lee, Cho Kee Seong, Won Ryu (ETRI, Korea)

A Graphical Model Approach to Downlink Cooperative MIMO Systems  
Illsoo Sohn, Sang Hyun Lee, Jeffrey Andrews (The University of Texas at Austin, USA)

Multicell Collaborative Random Beamforming with Power Sharing and User Selection  
Jia-Hao Wu, Yu-Tao Hsieh (Industrial Technology Research Institute, Taiwan), Pangan Ting (Tsing Hua University, Hsinchu, Taiwan)

Tuesday, 7 December 2010   11:20-12:30 Room: Orchard C  
**WC50: Equalization**  
(Sami Muhaedat, Simon Fraser University, muhaedat@ieee.org)

Signal-Level Turbo Packet Combining for Multi-Rate Relay-Assisted Systems over Multi-Antenna Broadband Channels  
Houda Chafnaji (INPT Rabat/Telecom Bretagne, Morocco), Tarik Ait-Idir (INPT, Morocco), Halim Yanikomeroglu (Carleton University, Canada), Samir Saoudi (Telecom-Bretagne, France)

Stochastic Expectation Maximization Algorithm for Long-Memory Fast-Fading Channels  
Hong Wan, Rong-Rong Chen (University of Utah, USA), Jun Won Choi, Andrew Singer (University of Illinois at Urbana Champaign, USA), James Preisig (Woods Hole Oceanographic Institution, USA), Behrouz Farhang-Boroujeny (Univ of Utah, USA)
MMSE Beamforming for SC-FDMA Transmission over MIMO ISI Channels with Linear Equalization
Uyen Ly Dang, Michael Ruder, Wolfgang Gerstacker (University of Erlangen-Nuernberg, German), Robert Schober (University of British Columbia, Canada)

Cooperative Filter-and-Forward Beamforming with Linear Equalization
Yang-wen Liang, Aissa Ikhlef (University of British Columbia, Canada), Wolfgang Gerstacker (University of Erlangen-Nuernberg, German), Robert Schober (University of British Columbia, Canada)

Tuesday, 7 December 2010   11:20-12:30 Room: Riverfront North Hall
WC2P: Multi-Antenna Systems I
(Vojislav B. Misic, Ryerson University, vmisic@scs.ryerson.ca)

Asymptotic performance of two-hop amplify-and-forward MIMO relaying with transmit antenna selection
Lei Cao, Li Chen, Xin Zhang, Dacheng Yang (Beijing University of Posts and Telecommunications, China)

Investigation into the Doppler Component of the IEEE 802.11n Channel Model
Eldad Perahia, Anmol Sheth, Thomas Kenney, Robert Stacey (Intel, USA), Daniel Halperin (University of Washington, USA)

Single-cell vs. Multicell MIMO Downlink Signalling Strategies with Imperfect CSI
Steven Blostein, Hassan Abou Saleh (Queen's University, Canada)

Performance Improvement of Multiantenna Cellular System Using Cooperation of Base Stations and Relay Stations
Tetsuki Taniguchi, Yoshio Karasawa, Nobuo Nakajima (The University of Electro-Communications, Japan)

Exact and Closed-Form Error Performance Analysis for Hard MMSE Detection in MIMO Systems
Peng Liu, Il-Min Kim (Queen's University, Canada)

MIMO In HSDPA and SIMO/MIMO Co-existence
Pavan Kumar Vitthaladavuni, Haitong Sun, Danlu Zhang, Sharad Sambhwani, Jilei Hou (Qualcomm Inc., USA)
Tuesday, December 7

16:00 - 17:10

AHSN03: Routing III

(Jelena Misic, Ryerson University, CA, jmisic@scs.ryerson.ca)

Room: Tuttle South
On Multipath Routing in Wireless Mesh Networks with Multiple Gateways
    Chia-Hung Chang (National Taiwan University, Taiwan); Wanjiun Liao (National
    Taiwan University, Taiwan)
Energy-Saving Event-Driven Wakeup and Routing in Wireless Sensor Networks
    Weiying Zhu (Hampton University, USA)
Correlation-Aware QoS Routing for Wireless Video Sensor Networks
    Rui Dai (Georgia Institute of Technology, USA); Pu Wang (Georgia Institute of
    Technology, USA); Ian F. Akyildiz (Georgia Institute of Technology, USA)
PRO: A Profile-based Routing Protocol for Pocket Switched Networks
    Murat Ali Bayir (University at Buffalo, USA); Murat Demirbas (University at
    Buffalo, SUNY, USA)

AHSN15: Data Aggregation and Processing

(Baoxian Zhang, Graduate University of the Chinese Academy of Sciences, CN,
bxzhang@gucas.ac.cn)

Room: Tuttle Center
Algorithms for Answering Geo-Range Query
    Xi Zhang (University of Victoria, Canada); Kui Wu (University of Victoria,
    Canada); Yong Gao (UBC-Okanagan, Canada)
An Efficient Data Aggregation Approach for Large Scale Wireless Sensor Networks
    Lutful Karim (University of Guelph, Canada); Nidal Nasser (University of
    Guelph, Canada); Hanady Abdulsalam (Kuwait University, Kuwait); Imad
    Moukadem (Computer Science Dept - Gulf University for Science and
    Technology, Kuwait)
Structure-less Message Aggregation (SLMA): Reliably and Efficiently Improve
    Information Precision and Certainty for VANETs
    Congyi Liu (Michigan Technological University, USA); Chunxiao (Tricia)
    Chigan (Michigan Tech, USA)
Data Gathering Protocols for Wireless Sensor Networks with Mobile Sinks
    Ke Tian (Beijing University of Posts and Telecommunications, P.R. China);
    Baoxian Zhang (Graduate University of the Chinese Academy of Sciences, P.R.
    China); Kui Huang (Chinese Academy of Sciences, P.R. China); Jian Ma (Nokia
    Research Center, P.R. China)

AHSN27: Multi-Radio and/or Multi-Channel Networks
(Amir-Hamed Mohsenian-Rad, University of Toronto, CA, hamed@comm.utoronto.ca)

Room: Jasmine
MMAC-HR: Multi-channel Medium Access Control with Hopping Reservation for Multi-hop Wireless Networks
   Khaled AlMotairi (University of Waterloo, Canada); Sherman Shen (University of Waterloo, Canada)
A Cooperative Multi-Channel MAC Protocol for Wireless Networks
   Devu Manikantan Shila (Illinois Institute of Technology, USA); Tricha Anjali (Illinois Institute of Technology, USA); Yu Cheng (Illinois Institute of Technology, USA)
A small world model based on multi-interface and multi-channel to design heterogeneous wireless sensor networks
   Daniel L. Guidoni (University of Ottawa, Canada); Azzedine Boukerche (Univ. of Ottawa, Canada); Fernanda S H Souza (Federal University of Minas Gerais, Brazil); Raquel A. F. Mini (PUC Minas, Brazil); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil)
Throughput Improvement in Multi-Radio Multi-Channel 802.11a-based Wireless Mesh Networks
   Aizaz Chaudhry (Carleton University, Canada); Roshdy Hafez (Carleton University, Canada); Osama Aboul-Magd (Carleton University, Canada); Samy Mahmoud (Carleton University, Ottawa, Canada, Canada)

AHSN3P: Topics in Ah Hoc, Sensor, and Mesh Networks III (Poster)

(Khairi A. Hamdi, University of Manchester, UK, k.hamdi@manchester.ac.uk)

Room: Riverfront North Hall
Dynamic Connectivity of Cognitive Radio Ad-hoc Networks with Time-varying Spectral Activity
   Pu Wang (Georgia Institute of Technology, USA); Ian F. Akyildiz (Georgia Institute of Technology, USA)
Stationarity of Mobility Models Constructed with LEMMA
   Alexander P Pelov (University of Strasbourg, France); Thomas Noel (University of Strasbourg, France)
Fast Recovery from Link Failures and Blackout of A Managed Wireless Mesh for NerveNet
   Masugi Inoue (National Institute of Information and Communications Technology, Japan); Masaaki Ohnishi (National Institute of Information and Communications Technology, Japan); Hiroaki Morino (Shibaura Institute of Technology, Japan); Tohru Sanefuji (Nassua Solutions Corp., Japan)
Traffic Protection via Bandwidth Scavenging in Heterogeneous Sensor Networks
   Anthony Plummer Jr (Michigan State University, USA); Matthias Schmidt (Michigan State University, USA); Mahmoud Taghizadeh (Michigan State University, USA); Subir Biswas (Michigan State University, USA)
Effects of Different Mobility Models on Traffic Patterns in Wireless Sensor Networks
Pu Wang (Georgia Institute of Technology, USA); Ian F. Akyildiz (Georgia Institute of Technology, USA)

A Cooperative Dual Access Multi-Channel MAC Protocol for Ad Hoc Networks
Yuhan Moon (Arizona State University, USA); Violet R. Syrotiuk (Arizona State University, USA)

CT03: Channel Coding I

(Ali Abedi, University of Maine, abedi@ieee.org)

Room: Hibiscus B
Ball Codes - Two-Dimensional Tail-Biting Convolutional Codes
Liam Alfandary (Tel Aviv University, Israel, Israel); Dan Raphaeli (Tel Aviv University, Israel)
On Design of Doubly-Generalized LDPC Codes Based on Multi-Type Information Functions
Enrico Paolini (DEIS, WiLAB, University of Bologna, Italy); Marco Chiani (University of Bologna, Italy); Marc Fossorier (Etis Ensea, France)
Variable-Rate Transmission for Incremental Redundancy Hybrid ARQ
Leszek Szczecinski (INRS-EMT, Canada); Ciro Correa (Universidad Diego Portales, Chile); Luciano Ahumada (Universidad Diego Portales, Chile)
Flexible Signal Space Diversity Techniques From MDS Codes With Fast Decoding
Yue Shang (MathWorks, USA); Dong Wang (Philips Research North America, USA); Xiang-Gen Xia (University of Delaware, USA)

ONS03: Multicast

(A Andrea Bianco, Politecnico di Torino, IT, bianco@polito.it)

Room: Tuttle North
Multicast Advance Reservation RWA Heuristics in Wavelength-Routed Networks
Neal Charbonneau (University of Massachusetts Dartmouth, USA); Vinod M. Vokkarane (University of Massachusetts Dartmouth, USA)
Dynamic Sub-Light-Tree Based Traffic Grooming for Multicast in WDM Networks
Rongping Lin (Nanyang Technological University, Singapore); Wen-De Zhong (Nanyang Technological University, Singapore); Sanjay Kumar Bose (I.I.T. Guwahati, India); Moshe Zukerman (City University of Hong Kong, Hong Kong)
Placement of Multicast Capable Nodes in Power Constrained All-Optical WDM Networks
Kelvin Keen-Mun Yong (Nanyang Technological University, Singapore); Tee Hiang Cheng (Nanyang Technological University, Singapore); Gaoxi Xiao (Nanyang Technological University, Singapore); Luying Zhou (Institute for Infocomm Research, Singapore)
Approximation Ratios of Multicast Light-trees in WDM Networks
SPC03: Channel Estimation, Modeling and Equalization III

(Hsiao-Chun Wu, Louisiana State University, wu@ece.lsu.edu)

Room: Tequesta
A Novel Robust Detection Algorithm Using Jarqur-Bera Statistic for Spectrum Sensing
Lu Lu (Louisiana State University, USA); Hsiao-Chun Wu (Louisiana State University, USA); Sitharama Iyengar (Louisiana State University, USA)

Novel Robust Blind Equalizer for QAM Signals Using Iterative Weighted-Least-Mean-Square Algorithm
Kun Yan (Louisiana State University, USA); Hsiao-Chun Wu (Louisiana State University, USA); Dongxin Xu (Infoture Inc., USA); Sitharama Iyengar (Louisiana State University, USA)

Equalizers for Multi-scale/Multi-lag Wireless Channels
Urbashi Mitra (University of Southern California, USA); Geert Leus (Delft University of Technology, The Netherlands)

Optimal Precoder and Symbol Grouping for Bandwidth-Efficient Bit-interleaved Coded Modulation over NAF Single-Relay Channels
Nghi Tran (McGill University, Canada); Leonardo Jiménez Rodríguez (McGill University, Canada); Tho Le-Ngoc (McGill University, Canada)

WN03: Handoff and Mobility Management I

(Tomasso De Cola, German Aerospace Center (DLR), tomaso.decola@dlr.de)
(Fotini-Niovi Pavlidou, Aristotle Univesity of Thessaloniki, niovi@auth.gr)

Room: Pearson II
A Handoff Solution in Wireless Mesh Networks by Implementing Split Channels
Haopeng Li (University of North Carolina at Charlotte, USA); Linda Jiang Xie (University of North Carolina at Charlotte, USA)

Network Engineering and Traffic Forwarding (NETF): An Integrated Design for Inter-gateway QoS Handoffs in Infrastructure Wireless Mesh Networks
Weiyi Zhao (University of North Carolina at Charlotte, USA); Linda Jiang Xie (University of North Carolina at Charlotte, USA)

Cross Layer Design for Video Transmissions in Metro Passenger Information Systems
Li Zhu (Carleton University, Canada); F. Richard Yu (Carleton University, Canada); Bing Ning (State Key Laboratory of Rail Traffic Control and Safety, P.R. China)

Evaluation of handover implementations in commercial GPRS/UMTS/HSDPA networks
Almudena Díaz Zayas (University of Málaga, Spain); Pedro Merino (University of Malaga, Spain)
WN15: TCP and Congestion Control I

(Vincent Wong, University of British Columbia, vincentw@ece.ubc.ca)

Room: Gautier

A Model for Steady State Throughput of TCP CUBIC
   Wei Bao (The University of British Columbia, Canada); Vincent Wong (University of British Columbia, Canada); Victor CM Leung (The University of British Columbia, Canada)

ARROW-WTCP: A Fast Transport Protocol based on Explicit Congestion Notification over Wired/Wireless Networks
   Jianxin Wang (Central South University, P.R. China); Jing Li (Central South University, P.R. China); Liang Rong (Central South University, P.R. China); Xi Zhang (Texas A&M University, ECE Department, USA)

A Probabilistic Approach for Improving TCP Fairness across Multiple Contending WLANs
   Ming Zhang (University of Florida, USA); S. M. Iftekharul Alam (University of Florida, Bangladesh); Shigang Chen (University of Florida, USA); Jianwei Liu (Beihang University, P.R. China)

Flowgrind – A new Performance Measurement Tool
   Alexander Zimmermann (RWTH Aachen University, Germany); Arnd Hannemann (RWTH Aachen University, Germany); Tim Kosse (RWTH Aachen University, Germany)

WN27: Vehicular Networks I

(Jun Zheng, Southeast University, junzheng@seu.edu.cn) (Abderrahmane Lakas, UAE University, alakas@uaeu.ac.ae)

Room: Merrick I

Delay-aware Transmission Range Control for VANETs
   Jialiang Li (Michigan Technological University, USA); Chunxiao (Tricia) Chigan (Michigan Tech, USA)

Statistical Broadcast Protocol Design for Unreliable Channels in Wireless Ad-hoc Networks
   Michael J Slavik (Florida Atlantic University, USA); Imad Mahgoub (Florida Atlantic University, USA)

Location Privacy Protection in Contention Based Forwarding for VANETs
   Qing Yang (Auburn University, USA); Alvin Lim (Auburn University, USA); Xiaojun Ruan (Auburn University, USA); Xiao Qin (Auburn University, USA)

Network-Coding-Based Relay MAC Protocols for Drive-Thru Internet Services in Vehicular Networks
   Hang Su (Texas A&M University, USA); Xi Zhang (Texas A&M University, ECE Department, USA)

WN3P: Network Performance Optimization I (poster)
(Lin X. Cai, University of Waterloo, lcai@bbcr.uwaterloo.ca)

Room: Riverfront North Hall
Dynamic Base Station Selections for QoS Provisioning Over Distributed MIMO Links
Qinghe Du (Texas A&M University, USA); Xi Zhang (Texas A&M University, ECE Department, USA)
Performance Analysis of the Quick Idle State Protocol of CDMA 1xEV-DO Rev. B Systems
Venkatesh Ramaswamy (Airvana, Inc, USA); Jae Chung (Airvana, Inc., USA)
Hit Optimal Cache for Wireless Data Access
Mursalin Akon (University of Waterloo, Canada); Mohammad Towhidul Islam (University of Waterloo, Canada); Sherman Shen (University of Waterloo, Canada); Ajit Singh (University of Waterloo, Canada)
Adaptive modulation in wireless networks with smoothed flow utility
Ekine Akuiyibo (Stanford University, USA); Stephen Boyd (Stanford University, USA); Daniel O'Neill (Stanford University, USA)
Capacity of Wireless Hybrid Networks with Successive Interference Cancellation
Davis Kirachaiwanich (University of Texas at Arlington, USA); Qilian Liang (University of Texas at Arlington, USA)
Spectrum Pooling-Based Optimal Internetwork Spectrum Sharing for Cognitive Radio Systems
Pengbo Si (Beijing University of Technology, P.R. China); F. Richard Yu (Carleton University, Canada); Ruizhe Yang (Beijing University of Technology, P.R. China); Yanhua Zhang (Beijing University of Technology, P.R. China)

Tuesday, 7 December 2010, 16:00-17:10   Room: IBIS
CIS03 Trust Management
(Dijiang Huang, arizona State Univ., dijiang@asu.edu)

On Measuring Email-based Social Network Trust
Dijiang Huang, Vetri Arasan (Arizona State University, US)

WIM: A Wage-based Incentive Mechanism for Reinforcing Truthful Feedbacks in Reputation Systems
Huanyu Zhao, Xin Yang, Xiaolin (Andy) Li (Oklahoma State University, US)

Provenance Based Information Trustworthiness Evaluation in Multi-hop Networks
Xinlei Wang, Kannan Govindan, Prasant Mohapatra (University of California, Davis, US)

Coping with Traitor Attacks in Reputation Models for Wireless Sensor Networks
Shenlong Chen (Chinese Academy of Sciences, CN), Yuqing Zhang (State Key Laboratory of Information Security, CN), Peng Liu (Xidian University, CN), Jingyu Feng (Xidian University, CN)
Tuesday, 7 December 2010, 16:00-17:10  Room: Pearson I
CIS06 Internet Security
(Niki Pissinou, Florida International University, pissinou@fiu.edu)

Signaling Architecture for Network Traffic Authorization
Se Gi Hong, Henning Schulzrinne (Columbia University, US), Swen Weiland (University of Göttingen, DE)

Credible-BGP: A Hybrid Cryptosystem to Secure BGP
Junaid Israr, Mouhcine Guennoun, Hussein Mouftah, Sk. Md. Mizanur Rahman (University of Ottawa, CA)

On the Robustness of the Botnet Topology Formed by Worm Infection
Qian Wang (Florida International University, US), Zesheng Chen, Chao Chen (Indiana University Purdue University Fort Wayne, US), Niki Pissinou (Florida International University, US)

Node Behavior based Fast Malware Detection for Enterprise Networks
Su Chang, Thomas Daniels (Iowa State University, US)

Tuesday, 7 December 2010, 16:00-17:10  Room: Riverfront North Hall
CIS3P CIS Poster Session 3 Wireless Security B
(Nidal Nasser, Univ. of Guelph, nnasser@uoguelph.ca)

Distance Bounding Protocols on TH-UWB Radios
Ahmed Benfarah (Insa Lyon, FR), Cedric Lauradoux (INRIA, FR), Benoit Miscopein (France Telecom, FR), Jean-Marie Gorce (INSA-Lyon, FR), Bernard Roux (University of Lyon, FR)

Performance Evaluation of a Hybrid Cryptosystem with Authentication for Wireless Ad hoc Networks
Azzedine Boukerche, Yonglin Ren, Richard Pazzi (University of Ottawa, CA)

A modified fuzzy vault scheme for biometrics-based body sensor networks security
Fen Miao, Shudi Bao, Ye Li (Chinese Academy of Sciences, CN)

Time Correlation Analysis of Secret Key Generation via UWB Channels
Masoud Ghereishi Madiseh, Stephen Neville, Michael McGuire (University of Victoria, CA)

Integrated UCON-Based Access Control and Adaptive Intrusion Detection for Wireless Sensor Networks
Jun Wu, Shigeru Shimamoto (Waseda University, JP)
Analysis of Certificate Revocation List Distribution Protocols for Vehicular Networks
Yogesh Reddy Kondareddy (Auburn University, US), Giovanni Di Crescenzo (Telcordia Technologies, US), Prathima Agrawal (Auburn University, US)

Tuesday, 7 December 2010  16:00-17:10   Room: Merrick II

**CSSMA03: Scheduling and Latency in Service Delivery**
(Krishna K. Dhara, Avaya Labs Research, USA, dhara@avaya.com)

XenTune: Detecting Xen Scheduling Bottlenecks for Media Applications
Min Lee (Georgia Tech, US)
Anjur Krishnakumar (Avaya Labs, US)
P. Krishnan (Avaya Labs, US)
Navjot Singh (Avaya Labs, US)
Shalini Yajnik (Avaya Labs, US)

Scheduling Grid Applications on Clouds
Cesar Chaves (State University of Campinas, BR)
Daniel Batista (State University of Campinas, BR)
Nelson L. S. da Fonseca (State University of Campinas, BR)

Enabling Ambient Aware Service Delivery in Heterogeneous Wireless Environments
Marius Corici (Fraunhofer FOKUS, DE)
Thomas Magedanz (Fraunhofer FOKUS, DE)
Dragos Vingarzan (Fraunhofer-FOKUS Institute, DE)
Peter Weik (Fraunhofer FOKUS, DE)

VNC in High-Latency Environments and Techniques for Improvement
Taurin Tan-atichat (University of California, San Diego, US)
Joseph Pasquale (University of California, San Diego, US)

Tuesday, 7 December 2010  16:00-17:10   Room: Orchard AB

**CQRM03: Multimedia**
(Stefano Giordano, University of Pisa, Italy, s.giordano@iet.unipi.it)

Applying Active Window Management for Jitter Control and Loss Avoidance in Video Streaming over TCP Connections
Alfio Lombardo (University of Catania, IT)
Carla Panarello (DIIT - University of Catania, IT)
Giovanni Schembra (University of Catania, IT)

Case Study of Internet Links: What degrades Video QoE?
Mukundan Iyengar (University of Central Florida, US)
Mainak Chatterjee (University of Central Florida, US)
Methods of Selecting Threshold for the QoE-Based Video Output Scheme SCS
Shuji Tasaka (Nagoya Institute of Technology, JP)
Akifumi Hirashima (Nagoya Institute of Technology, JP)

Modeling of Transmission Distortion for Multi-View Video in Packet Lossy Networks
Yuan Zhou (Tianjin University, CN)
Chunping Hou (Tianjin University, CN)
Wei Xiang (University of Southern Queensland, AU)

Tuesday, 7 December 2010   16:00-17:10   Room: Hibiscus A
CQRM15: P2P Network and Applications I
(Yannis Viniotis, North Carolina State University, USA, candice@ncsu.edu)

Peer-to-Peer Storage Systems: a Practical Guideline to be Lazy
Frederic Giroire (CNRS, FR)
Julian Monteiro (INRIA Sophia Antipolis, FR)
Stephane Perennes (INRIA, FR)

Are a Few Neighboring Peers Good Enough?
Lili Zhong (Hong Kong University of Science and Technology, HK)
Jie Dai (Hong Kong University of Science and Technology, CN)
Bo Li (Hong Kong University of Science and Technology, HK)
Baochun Li (University of Toronto, CA)
Hai Jin (Huazhong University of Science and Technology, CN)

Efficient Uplink Bandwidth Utilization in P2P-TV Streaming Systems
Alessandra Carta (Politecnico di Torino, IT)
Michela Meo (Politecnico di Torino, IT)
Marco Mellia (Politecnico di Torino, IT)
Stefano Traverso (Politecnico di Torino, IT)

DHTrust: A Robust and Distributed Reputation System for Trusted Peer-to-Peer Networks
Yaqiong Liu (Dalian University of Technology, CN)
Keqiu Li (Dalian University of Technology, CN)
Geyong Min (University of Bradford, UK)
Yingwei Jin (Dalian University of Technology, CN)
Wenyu Qu (Dalian Maritime University, CN)

Tuesday, 7 December 2010   16:00-17:10   Room: Gardenia
SAC03: Cognitive Radio and Security
(Tim Newman Virginia Tech USA trnewman@vt.edu)

Optimal Defense Against Jamming Attacks in Cognitive Radio Networks using the Markov Decision Process Approach
Yongle Wu (University of Maryland, US), Beibei Wang (University of Maryland, College Park, US), K. J. Ray Liu (Department of Electrical and Computer Engineering, University of Maryland, US)

Case Study: Security Analysis of a Dynamic Spectrum Access Radio System
Timothy Newman (Virginia Tech, US), T. Charles Clancy (University of Maryland, US), Mark McHenry (Shared Spectrum Company, US), Jeffrey Reed (Virginia Tech, US)

Denial of Service Attacks in Cognitive Radio Networks Through Channel Eviction Triggering
Shabnam Sodagari (The Pennsylvania State University, US), Alireza Attar (University of British Columbia, CA), Victor Leung (The University of British Columbia, CA), Sven Bilén (The Pennsylvania State University, US)

Robust Spectrum Decision Protocol against Primary User Emulation Attacks in Dynamic Spectrum Access Networks
Zituo Jin (Stevens Institute of Technology, US), Santhanakrishnan Anand (Stevens Institute of Technology, US), Koduvayur Subbalakshmi (Stevens Institute of Technology, US)

Tuesday, 7 December 2010   16:00-17:10 Room: Flamingo
**NGN03: Packet Processing**
(Tarik Taleb; NEC Europe; Tarik.Taleb@neclab.eu)

A Tunnel-aware Language for Network Packet Filtering
Luigi Ciminiera (Politecnico di Torino, IT)
Marco Leogrande (Politecnico di Torino, IT)
Ju Liu (Politecnico di Torino, IT)
Olivier Morandi (Laser S.r.l., IT)
Fulvio Risso (Politecnico di Torino, IT)

Incremental Forwarding Table Aggregation
Yaoqing Liu (University of Memphis, US)
Xin Zhao (University of Arizona, US)
Kyuhan Nam (University of Arizona, US)
Lan Wang (University of Memphis, US)
Beichuan Zhang (University of Arizona, US)

Experience on Applying Push Model to Packet Processors in High Performance Routers
Bo Yuan (Tsinghua University, CN)
Hongbo Zhao (Tsinghua University, CN)
Chengchen Hu (Tsinghua University, Beijing, P. R. China, CN);
Bin Liu (Tsinghua University, CN)
Jia Yu (UC Riverside, US)
Laxmi Bhuyan (University of California, US)
Cache-Based Scalable Deep Packet Inspection with Predictive Automaton
Hyung Jae Yi Tang (Tsinghua University, Beijing, China, CN)
Jun Chen Jiang (Tsinghua University, CN)
Bin Liu (Tsinghua University, CN)

Tuesday, 7 December 2010   16:00-17:10 Room: Riverfront North Hall
NGN3P: Peer-to-Peer and Content Delivery Networks
(Panayiotis Kolios, King's College London, panayiotis.kolios@kcl.ac.uk)

Odd for Even: A Selfishness Prevention File Swap Scheme for BitTorrent
Miao Wang (Institute of Computing Technology, Chinese Academy of Sciences, CN)
Zhang Yujun (Institute of Computing Tech. Chinese Academy of Sciences, CN)
Guojie Li (Institute of Computing Technology, Chinese Academy of Sciences, CN)

Assessing the impact of geographically correlated failures on overlay-based data dissemination
Kyungbaek Kim (University of California, Irvine, US)
Nalini Venkatasubramanian (University of California, Irvine, US)

On the Use of Concurrent Multipath Transfer over Asymmetric Paths
Thomas Dreibholz (University of Duisburg-Essen, DE)
Martin Becke (University of Duisburg-Essen, DE)
Erwin P. Rathgeb (Universität Duisburg-Essen, DE)
Michael Tüxen (Münster University of Applied Sciences, DE)

An Analytic Model for the Stream Control Transmission Protocol
T. Daniel Wallace (University of Western Ontario, CA)
Abdallah Shami (The University of Western Ontario, CA)

On Parallel UDP-based Transport Control over Dedicated Connections
Xukang Lu (University of Memphis, US)
Qishi Wu (University of Memphis, US)
Zongmin Wang (Zhengzhou University, CN)
Nageswara Rao (Oak Ridge National Laboratory, US)

Tuesday, 7 December 2010   16:00-17:10 Room: Brickell North
WC03: MIMO III
(Yan Xin, NEC Labs America, yanxin@nec-labs.com; Niki Pissinou, Telecom & IT Institute, pissinou@fiu.edu)

Energy-efficient power loading for a MIMO-SVD system and its performance in flat fading
Raghavendra Prabhu, Babak Daneshrad (University of California, Los Angeles, USA)
User Selection with Throughput-Fairness Tradeoff for MIMO Broadcast Channels
Ziqing Ye, Kai Niu, Zhiqiang He (Beijing University of Posts and Telecommunications, China)

A Novel Capacity Outer Bound for the MIMO Gaussian Interference Channel and Application to Relay-Assisted Communications
Oussama Souihli, Tomoaki Ohtsuki (Keio University, Japan)

Space-Time Correlation Properties of a 3D Two-Sphere Model for Non-Isotropic MIMO Mobile-to-Mobile Channels
Yi Yuan, Xiang Cheng, Chengxiang Wang (Heriot-Watt University, United Kingdom), David Laurenson (The University of Edinburgh, United Kingdom), Ge Xiaohu (Huazhong University of Science & Technology, China), Feng Zhao (Guilin University of Electronic Technology, China)

Tuesday, 7 December 2010  16:00-17:10 Room: Brickell Center
**WC15: Cognitive Radio III**
(Robert Qiu, Tennessee Tech Univ, rqiu@tntech.edu; Jerry Miller, Advance Research Center, millej@fiu.edu)

Experimental Study of Cooperative Spectrum Sensing for Cognitive Radio
Yoshimitsu Yagi, Takuto Ohno, Hidekazu Murata, Koji Yamamoto (Kyoto University, Japan)

Capacity for Spectrum Sharing Cognitive Radios with MRC Diversity and Imperfect Channel Information from Primary User
Ruifeng Duan (University of vaasa, Finland), Riku Jantti (Helsinki University of Technology, Finland), Mohammed Elmusrati, Reino Virrankoski (University of Vaasa, Finland)

Classification of Forward Error Correction Codes
Michael Buehrer (Virginia Tech, USA)

Dual Methods for Power Allocation for Radios Coexisting in Unlicensed Spectra
Kandasamy Illanko, Alagan Anpalagan, Dimitri Androutsos (Ryerson University, Canada)

Tuesday, 7 December 2010  16:00-17:10 Room: Brickell South
**WC27: Cooperative Communications III**
(Philippa Martin, University of Canterbury, New Zealand, p.martin@elec.canterbury.ac.nz)

Distributed Analog Channel Coding for Wireless Relay Networks.
Md. Shahriar Rahman, Yonghui Li, Branka Vucetic (The University of Sydney, Australia)
Relay Selection with Outdated Channel Estimates
Diomidis Michalopoulos (University of British Columbia, Canada), Himal Suraweera (National University of Singapore, Singapore), George Karagiannidis (Aristotle University of Thessaloniki, Greece), Robert Schober (University of British Columbia, Canada)

Transceiver Design for Multi-user Multi-antenna Two-way Relay Channels
Can Sun (Beihang University, China), Yonghui Li, Branka Vucetic (The University of Sydney, Australia), Chenyang Yang (Beihang University, China)

Performance of Energy Detection: A Complementary AUC Approach
Saman Atapattu, Chintha Tellambura, Hai Jiang (University of Alberta, Canada)

Tuesday, 7 December 2010  16:00-17:10 Room: Orchard D
**WC39: Communication Feedback I**
(Xiaodai Dong, University of Victoria, xdong@ece.uvic.ca)

MMSE Relaying Design for Multi-Antenna Two-Hop Downlinks with Finite-Rate Feedback
Wei Xu, Xiaodai Dong (University of Victoria, Canada)

Limited Feedback-based Unitary Precoder Design in Rician MIMO Channel via Trellis Exploration Algorithm
Dalin Zhu (NEC Laboratories China, China), Bala Natarajan (Kansas State University, USA),

A Reduced Feedback Precoder for Cooperative Relay Networks
Kyeong Jin Kim (None, USA), Yijia Fan (Princeton University, USA), Ronald A. Iltis (University of California, Santa Barbara, USA), H. Vincent Poor (Princeton University, USA)

On the Minimum Differential Feedback for Time-Correlated MIMO Rayleigh Block-Fading Channels
Leiming Zhang, Lingyang Song, Meng Ma, Bingli Jiao (Peking University, China)

Tuesday, 7 December 2010  16:00-17:10 Room: Orchard C
**WC51: Estimation I**
(Paul J. Gendron, SSC-Pacific, gendron@spawar.navy.mil)

Pilot Design for Channel Estimation in OFDM-based Cognitive Radio Systems
Die Hu (Fudan University, China), Lianghua He (Tongji University, China)

A Suboptimal Sensing Scheme for OFDM Signal Based on Pilots Estimation in Cognitive Radios
Pinyi Ren, Wenshan Yin (Xi'an Jiaotong University, China)
BEM-Based Estimation for Time-Varying Channels and Training Design in Two-Way Relay Networks
Gongpu Wang (University of Alberta, Canada), Feifei Gao (Jacobs University, German), Chintha Tellambura (University of Alberta, Canada)

Estimation, Training, and Effect of Timing Offsets in Distributed Cooperative Networks
Hani Mehrpouyan, Steven Blostein (Queen's University, Canada)

Tuesday, 7 December 2010  16:00-17:10 Room: Riverfront North Hall
WC3P: Multi-Antenna Systems II
(Husheng Li, The University of Tennessee, husheng@eecs.utk.edu)

Experimental Evaluation of an IEEE 802.11n Wireless LAN System Employing Lattice Reduction Aided MIMO Detection
Josep Soler-Garrido, Daisuke Takeda, Yoshimasa Egashira (Toshiba, Japan)

Transmit Antenna Selection Strategies for Cooperative MIMO AF Relay Networks
Gayan Amarasuriya, Chintha Tellambura, Masoud Ardakani (University of Alberta, Canada)

Reinforcement Learning for Link Adaptation in MIMO-OFDM Wireless Systems
Sungho Yun, Constantine Caramanis (The University of Texas at Austin, USA)

New Achievable Rate Region of Gaussian MIMO Broadcast Channels with Linear Precoding
Junyoung Nam (Electronics and Telecommunication Research Institute (ETRI), Korea), Jeongseok Ha (Korea Advanced Institute of Science and Technology, Korea)

Opportunistic Interference Aligned User Selection in Multiuser MIMO Interference Channels
Jung Hoon Lee, Wan Choi (KAIST, Korea)
Tuesday, December 7

17:20 - 18:30

AHSN04: Routing IV

(Weifa Liang, Australian National University, AU, wliang@cs.anu.edu.au)

Room: Tuttle South
Cross-Layer Aware Routing Approaches for Lifetime Maximization in Rate-Constrained Wireless Sensor Networks
    Samina Ehsan (Oregon State University, USA); Bechir Hamdaoui (Oregon State University, USA); Mohsen Guizani (WMU, USA)
Adaptive Multi-Criteria Routing for Shared Sensor-Actuator Networks
    Ramy Eltarras (Virginia Tech, USA); Mohamed Eltoweissy (Pacific Northwest National Laboratory, USA)
Geometric Routing Precluding Loops and Dead Ends in 3-D Wireless Sensor Networks
    Jun Duan (Renmin University of China, P.R. China); Deying Li (Renmin University of China, P.R. China); Wenping Chen (Renmin University of China, P.R. China)
Spectrum-Aware Routing for Reliable End-to-End Communications in Cognitive Sensor Networks
    Rong Yu (South China University of Technology, P.R. China); Yan Zhang (Simula Research Laboratory and University of Oslo, Norway); Wenqing Yao (South China University of Technology, P.R. China); Lingyang Song (Peking University, P.R. China)

AHSN16: Cross-layer Design

(Iyad Dayoub, Univ Lille Nord de France, F-59000 Lille, IEMN, DOAE, F-59313 Valenciennes, FR, iyad.Dayoub@univ-valenciennes.fr)

Room: Tuttle Center
Cross-layer Design to Support QoS in Wireless Multimedia Sensor Networks
    Ghalib Asadullah Shah (National University of Science and Technology, Pakistan); Weifa Liang (Australian National University, Australia); Xiaojun Shen (University of Missouri-Kansas City, USA)
A MIMO Cross-Layer Design for Ad-Hoc Networks
    Wei Fang Mao (Concordia University, Canada); Walaa Hamouda (Concordia University, Canada); Iyad Dayoub (Univ Lille Nord de France, F-59000 Lille, IEMN, DOAE, F-59313 Valenciennes, France)
Cross-Layer Protocol Design for Distributed Wireless Networks with Novel Relay Selection
    Hangguan Shan (University of Waterloo, Canada); Weihua Zhuang (University of Waterloo, Canada); Ho Ting Cheng (University of Waterloo, Canada)
Transmit Rate Control for Energy-efficient Estimation in Wireless Sensor Networks
Iordanis Koutsopoulos (UTH, Greece); Slawomir Stanczak (Fraunhofer German-Sino Lab for Mobile Communications, Germany); Angela Feistel (Technical University of Berlin, Germany)

AHNS28: Cooperative Networks

(Chi Zhou, Illinois Institute of Technology, US, zhouc@ece.iit.edu)

Room: Jasmine
Asynchronous Cooperative Spectrum Sensing in Multi-hop Cognitive Radio Networks
Yi Liu (South China University of Technology, P.R. China); Rong Yu (South China University of Technology, P.R. China); Yan Zhang (Simula Research Laboratory and University of Oslo, Norway); Shengli Xie (South China University of Technology, P.R. China)
Polarization Filtering Based Interference Suppressions for Cooperative Radar Sensor Networks
Bin Cao (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Qinyu Zhang (Shenzhen Graduate School, Harbin Institute of Technology, P.R. China); Zhang Yan-Qun (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Shou-Ming Wen (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Dong Liang (Harbin Institute of Technology Shenzhen Graduate School, P.R. China)

A CDS based Cooperative Information Repair Protocol with Network Coding in Wireless Networks
Yu Liu (Illinois Institute of Technology, USA); Bin Guo (Illinois Institute of Technology, USA); Chi Zhou (Illinois Institute of Technology, USA); Yu Cheng (Illinois Institute of Technology, USA)

A Distributed Collaborative Relay Protocol for Multi-hop WLAN Accesses-
Bo Zhang (City University of Hong Kong, Hong Kong); Zhongming Zheng (City University of Hong Kong, Hong Kong); Xiaohua Jia (City University of Hong Kong, Hong Kong); Kan Yang (City University of Hong Kong, Hong Kong)

AHNS4P: Topics in Ah Hoc, Sensor, and Mesh Networks IV (Poster)

(Masoumeh Karimi, Florida International University, US, masoumehkarimi@hotmail.com)

Room: Riverfront North Hall
Compressive Sensing for Radar Sensor Networks
Qilian Liang (University of Texas at Arlington, USA)
PCO based Event Propagation Scheme for Globally Synchronized Sensor Networks
Rajeev Dokania (Cornell University, USA); Xiao Wang (Cornell University, USA); Waclaw Godycki (Cornell University, USA); Carlos Dorta-Quinones (Cornell University, USA); Alyssa Apsel (Cornell University, USA)
inter-MARIO: A Fast and Seamless Mobility Protocol to support Inter-PAN Handover in 6LoWPAN
   Minkeun Ha (Korea Advanced Institute of Science and Technology, Korea);
   Daeyoung Kim (Korea Advanced Institute of Science and Technology, Korea);
   Seong Hoon Kim (Korea Advanced Institute of Science and Technology, Korea);
   Sungmin Hong (Korea Advanced Institute of Science and Technology, Korea)
A Prediction based Long-cycle Time Synchronization Algorithm for Sensor Networks
   Wentao Jiang (Institute of Software, Chinese Academy of Sciences, P.R. China);
   Limin Sun (Institute of Software, Chinese Academy of Sciences, P.R. China);
   Junwei Lv (Naval Aeronautical and Astronautical University, P.R. China);
   Feng Wang (Simon Fraser University, Canada)
EasiDesign: an Improved Ant Colony Algorithm for Sensor Deployment in Real Sensor Network System
   Dong Li (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China);
   Wei Liu (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China);
   Li Cui (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China)
ATMA: Advertisement-based TDMA Protocol for Bursty Traffic in Wireless Sensor Networks
   Surjya S Ray (University of Rochester, USA); Ilker Demirkol (University of Rochester, USA);
   Wendi Heinzelman (University of Rochester, USA)

CT04: Channel Coding II

(Kiran Gunnam, LSI Corporation, kgunnam@ieee.org)

Room: Hibiscus B
A Discrete Time Markov Chain Model for High Throughput Bidirectional Fano Decoders
   Ran Xu (University of Bristol, United Kingdom); Graeme K Woodward (Toshiba Research Europe Ltd, United Kingdom);
   Kevin A Morris (University of Bristol, United Kingdom); Taskin Kocak (University of Bristol, United Kingdom)
Diversity Embedded Streaming Erasure Codes (DE-SCo): Constructions and Optimality
   Ahmed A. Badr (University of Toronto, Canada); Ashish Khisti (University of Toronto, Canada); Emin Martinian (Tilda Consulting, Inc., USA)
Lowering Error Floors Using Dithered Belief Propagation
   François Leduc-Primeau (McGill University, Canada); Saied Hemati (McGill University, Canada); Shie Mannor (McGill University, Canada); Warren Gross (McGill University, Canada)
Chaotic Analog Error Correction Codes: The Baker's Codes
   Kai Xie (Lehigh University, USA); Tiffany Jing Li (Lehigh University, USA)

ONS04: Scheduling and Resource Allocation

(Dominic A. Schupke, Nokia Siemens Networks, DE, dominic.schupke@nsn.com)

Room: Tuttle North
Wavelengths and Regenerators Sharing in GMPLS-controlled WSONs
Anna V Manolova (Danish Technical University, Denmark); Alessio Giorgetti (Scuola Superiore Sant'Anna, Italy); Isabella Cerutti (Scuola Superiore Sant'Anna, Italy); Nicola Sambo (Scuola Superiore Sant'Anna, Italy); Nicola Andriolli (Scuola Superiore Sant'Anna, Italy); Raul Muñoz (CTTC, Spain); Ricardo Martinez (CTTC, Spain); Ramon Casellas (Centre Tecnologic de Telecomunicacions de Catalunya, Spain); Sarah Ruepp (Technical University of Denmark, Denmark); Piero Castoldi (Scuola Superiore Sant'Anna, Italy)

Lightpath Scheduling and Routing for Traffic Adaptation
James Y. Zhang (University of Ottawa, Canada); Hussein Mouftah (University of Ottawa, Canada); Jing Wu (Communications Research Centre Canada, Canada); J. Michel Savoie (Communications Research Centre Canada, Canada)

Co-scheduling Computational and Networking Resources in E-Science Optical Grids
Mohamed Abouelela (University of Regina, Canada); Mohamed El-Darieby (University of Regina, Canada, Canada)

A Tabu Search Approach for Joint Scheduling of Resources in a Lambda Grid Network
Anusha Ravula (University of Nebraska Lincoln, USA); Byrav Ramamurthy (University of Nebraska-Lincoln, USA)

SPC04: Channel Estimation, Modeling and Equalization IV
(Xiang-Gen Xia, University of Delaware, xxia@ee.udel.edu)

Room: Tequesta
WiMAX Signal Detection Algorithm based on Preamble-Induced Second-Order Cyclostationarity
Ala'a Al-Habashna (Memorial University of Newfoundland, Canada); Octavia A. Dobre (Memorial University of Newfoundland, Canada); Ramachandran Venkatesan (Memorial University of Newfoundland, Canada); Dimitrie C. Popescu (Old Dominion University, USA)

1D Barcode Blind Detection in Severe Environment
Noura Dridi (TELECOM Lille1, France); Yves Delignon (Institut TELECOM/TELECOM Lille1, France); François Septier (Institut TELECOM/TELECOM Lille1, France); Wadih Sawaya (ENIC, France)

Blind Spectrum Sensing by Information Theoretic criteria
Rui Wang (Shanghai Jiaotong university, P.R. China); Meixia Tao (Shanghai Jiao Tong University, P.R. China)

On Steepest Descent Adaptation: A Novel Batch Implementation of Blind Equalization Algorithms
Huy-Dung Han (University of California at Davis, USA); Zhi Ding (University of California at Davis, USA); Junqiang Hu (NEC Laboratories America, Inc., USA); Dayou Qian (NEC Laboratories America, USA)

SPC10: Transmitter and Receiver Techniques
(Hsiao-Chun Wu, Louisiana State University, wu@ece.lsu.edu)
Room: IBIS
Transceiver Design in Multiuser MISO Systems with Limited Feedback
Mario Castaneda (Munich University of Technology, Germany); Israa Slim
(Technische Universitaet Muenchen, Germany); Josef A. Nossek (Munich
University of Technology, Germany)
A Novel Continuous Wave Interference Detectable Adaptive Notch Filter for GPS
Receivers
Ying-Ren Chien (Academia Sinica, Taiwan); Yi-Cheng Huang (National Taiwan
University, Taiwan); De-Nian Yang (Academia Sinica, Taiwan); Hen-Wai Tsao
(National Taiwan University, ?)
On the Performance of Spectrum Sensing Algorithms using Multiple Antenna
Ying-Chang Liang (Institute for Infocomm Research, Singapore); Guangming
Pan (Nanyang Technological University, Singapore); Yonghong Zeng (Institute
for Infocomm Research, Singapore)
New FIR Filter Design for Both Spectrum Matching and Inverse System Approximation
Shih Yu Chang (National Tsing Hua University of Taiwan, Taiwan); Hsiao-Chun
Wu (Louisiana State University, USA)

WN04: Wireless Mesh Network Design I

(Hamid Nafaa, University of College Dublin, nafaa@ieee.org)

Room: Peason II
Coding-Aware Routing for Unicast Sessions in Wireless Mesh Networks
Yongxiang Peng (Virginia Tech, USA); Yaling Yang (Virginia Tech, USA);
Xianliang Lu (University of Electronic Science and Technology of China, P.R.
China); Xuyang Ding (University of Electronic Science and Technology of China,
USA)
GSQAR: A Quality Aware Anycast Routing Protocol for Wireless Mesh Networks
Amitangshu Pal (The University of North Carolina at Charlotte, USA); Asis
Nasipuri (University of North Carolina at Charlotte, USA)
High-Performance Multicast Routing in Multi-Channel Multi-Radio Wireless Mesh
Networks
Hoang Lan Nguyen (York University, Canada); Uyen Trang Nguyen (York
University, Canada)
Mitigating Load Imbalance in Wireless Mesh Networks with Mixed Application Traffic
Types
Amr G M Al Asaad (The University of British Columbia, Canada); Sathish
Gopalakrishnan (University of British Columbia, Canada); Victor CM Leung
(The University of British Columbia, Canada)

WN16: Medium Access Control

(Ruonan Zhang, Northwest Polytechnical University, rzhang@ieee.org)

Room: Gautier
A CSMA/CA MAC Protocol for Multi-User MIMO Wireless LANs
Michelle Gong (Intel, USA); Eldad Perahia (Intel Corporation, USA); Robert J Stacey (Intel, USA); Roy Want (Intel Research, USA); Shiwen Mao (Auburn University, USA)

Power Efficient Time-Controlled CSMA/CA MAC protocol for Lunar Surface Networks
Xudong Wang (Teranovi Technologies, Inc., USA)

Directional CSMA/CA Protocol with Spatial Reuse for mmWave Wireless Networks
Michelle Gong (Intel, USA); Dmitry Akhmetov (Intel Corporation, USA); Roy Want (Intel Research, USA); Shiwen Mao (Auburn University, USA)

A Novel Random Access Mechanism for OFDMA Wireless Networks
Xudong Wang (Teranovi Technologies, Inc., USA); Hao Wang (Shanghai Jiao Tong University, P.R. China)

WN28: Wireless Relay Networks I

(Petar Popovski, Aalborg University, petarp@kom.auc.dk) (Hassan Moradi, University of Oklahoma, hmoradi@ou.edu)

Room: Merrick I
Stochastic Optimization for Joint Resource Allocation in OFDMA-Based Relay System
Rui Yin (Zhe Jiang University, P.R. China); Yu Zhang (Zhejiang University, P.R. China); Hsiao-Hwa Chen (National Cheng Kung University, Taiwan); Guanding Yu (Zhejiang University, P.R. China); Zhaoyang Zhang (Zhejiang University, P.R. China)

On Exploiting Cooperative, Channel and Multiuser Diversities in Wireless Relay Networks
Jian Tang (Montana State University, USA); Brendan Mumey (Montana State University, USA); Kairat Zhubayev (Montana State University, USA); Richard S. Wolff (Montana State University, USA)

Achieving Full Rate Network Coding with Constellation Compatible Modulation and Coding
Suhua Tang (ATR Adaptive Communications Research Laboratories, Japan); Hiroyuki Yomo (Kansai University, Japan); Tetsuro Ueda (ATR Adaptive Communications Research Laboratories, Japan); Ryu Miura (ATR Adaptive Communications Research Laboratories, Japan); Sadao Obana (Advanced Telecommunication Research Institute International, Japan)

WN4P: Topics in Wireless Networking II (poster)

(Giacomo Morabito, University of Catania, giacomo.morabito@diit.unict.it)

Room: Riverfront North Hall
Opportunistic communications in infestation systems; delay and stability analysis
Laura Galluccio (University of Catania, Italy); Giacomo Morabito (University of Catania, Italy); Aris Moustakas (University of Athens, Greece); Sergio Palazzo (University of Catania, Italy)
Exploiting Space-Time Correlations in an RFID Tag Field for Localization and Tracking
Victor K.Y. Wu (University of Illinois at Urbana-Champaign, USA); Nitin Vaidya (University of Illinois at Urbana-Champaign, USA)

Node Localization in Wireless Networks Through Physical Layer Network Coding
Zhiwei Li (University of North Carolina at Charlotte, USA); Di Pu (Worcester Polytechnic Institute, USA); Weichao Wang (University of North Carolina at Charlotte, USA); Alexander M. Wyglinski (Worcester Polytechnic Institute, USA)

Constructing Secure Localization Systems with Adjustable Granularity Using Commodity Hardware
Patrick G. Traynor (Georgia Institute of Technology, USA); Joshua Schiffman (The Pennsylvania State University, USA); Tom La Porta (Penn State University, USA); Patrick McDaniel (Pennsylvania State University, USA); Abhrajit Ghosh (Telcordia Technologies Inc., USA)

Tuesday, 7 December 2010, 17:20-18:30   Room: Pearson I
CIS07 Wireless and Cognitive Radio
(Yan Sun, University of Rode Island, yansun@ele.uri.edu)

Cross-layer Attack and Defense in Cognitive Radio Networks
Wenkai Wang, Yan Sun (University of Rhode Island, US)  Husheng Li (University of Tennessee, US), Zhu Han (University of Houston, US)

Dynamic Spectrum Allocation Based Confidentiality for Cognitive Radio Networks
Chao Zou, Chunxiao Chigan (Michigan Tech, US)

Detection of Resource-Drained Attacks on SIP-Based Wireless VoIP Networks
Jin Tang, Yong Hao, Yu Cheng, Chi Zhou (Illinois Institute of Technology, US)

ESPR: Efficient Security Scheme for Position-Based Routing in Vehicular Ad Hoc Networks
Nizar Alsharif, Albert Wasef, Sherman Shen (University of Waterloo, CA)

Tuesday, 7 December 2010, 17:20-18:30   Room: Riverfront North Hall
CIS4P CIS Poster Session 4 Internet Security B

(Yanchao Zhang, Arizona State Univ, yczhang@asu.edu)

Queuing Analysis of Network Firewalls
Khaled Salah (KFUPM, SA)

Attribute-based Conditional Proxy Re-encryption with Chosen-Ciphertext Security
Jing Zhao, Dengguo Feng, ZhenFeng Zhang (Institute of Software, Chinese Academy of Sciences, CN)
A Modified Multi-Resolution Approach for Port Scan Detection
Hwashin Moon, Sungwon Yi, Cho Kee Seong (ETRI, KR)

Tuesday, 7 December 2010  17:20-18:30  Room: Merrick II

CSSMA04: Communications Software in Vehicular Communications and Wireless Sensor Networks Services
(Joel Rodrigues, Instituto de Telecomunicações, University of Beira Interior, Portugal, joeljr@ieee.org; Jaime Lloret Mauri, University of Valencia, Spain, jlloret@dcom.upv.es)

Performance Assessment of Caching and Forwarding Algorithms for Vehicular Delay Tolerant Networks
Bruno Silva (Instituto de Telecomunicações, University of Beira interior, PT)
Farid Farahmand (Sonoma State University, US)
Joel Rodrigues (Instituto de Telecomunicações, University of Beira Interior, PT)

Reliable Routing Based on Energy Prediction for Wireless Multimedia Sensor Networks
Kai Lin (Dalian University of Technology, CN)
Min Chen (Seoul National University, KR)

Energy-efficient Location-dependent Key Management Scheme for Wireless Sensor Networks
Lin He (Korea University, Seoul, Korea, KR)
Yiying Zhang (Korea University, Seoul, Korea, KR)
Lei Shu (Osaka University, Japan, JP)
Athanasios Vasilakos (University of Western Macedonia, GR)
Myongsoon Park (University of korea, KR)

NetViewer: A Universal Visualization Tool for Wireless Sensor Networks
Longhui Ma (Dalian University of Technology, CN)
Lei Wang (Dalian University of Technology, CN)
Lei Shu (Osaka University, Japan, JP)
Jing Zhao (Dalian University of Technology, CN)
Zhuxiu Yuan (Dalian University of Technology, CN)
Suran Li (Dalian University of Technology, CN)
Ning Ding (Dalian University of Technology, China, CN)

Tuesday, 7 December 2010  17:20-18:30  Room: Orchard AB

CQRM04: P2P Network and Applications II
(Katsunori Yamaoka, Tokyo Institute of Technology, Japan, yamaoka@ss.titech.ac.jp)

Exploiting Peer-to-Peer technology for network and resource management in interactive broadcasting environments
Evangelos Markakis (University of the Aegean, GR)  
Evangelos Pallis (Technological Institute of Crete, GR)  
Harry Skianis (University of the Aegean, GR)  

Unveiling Popularity of BitTorrent Darknets  
Xiaowei Chen (Hong Kong Baptist University, HK)  
Xiaowen Chu (Hong Kong Baptist University, HK)  
Jiangchuan Liu (Simon Fraser University, CA)  

Mobile P2P Multicast based on Social Network Reducing Psychological Forwarding Cost  
Hiroyuki Kubo (Kyoto University, JP)  
Ryoichi Shinkuma (Kyoto University, JP)  
Tatsuro Takahashi (Kyoto University, JP)  

Selfishness-aware Application-Layer Multicast  
Miao Wang (Institute of Computing Technology, Chinese Academy of Sciences, CN)  
Ge Peng (Institute of Computing Technology, Chinese Academy of Sciences, CN)  
Zhang Yujun (Institute of Computing Tech. Chinese Academy of Sciences, CN)  
Guojie Li (Institute of Computing Technology, Chinese Academy of Sciences, CN)  

Tuesday, 7 December 2010 17:20-18:30  Room: Hibiscus A  
CQRM16: Routing I  
(Geyong Min, University of Bradford, UK, G.Min@Bradford.ac.uk)  

A Hybrid Approach to CAM-Based Longest Prefix Matching for IP Route Lookup  
Yan Sun (Washington State University, US)  
Min Kim (Washington State University, US)  

A Resilient Routing Policy for Peering Management  
Stefano Secci (Telecom ParisTech, FR)  
Huaiyuan Ma (Norwegian University of Science and Technology, NO)  
Bjarne Helvik (Norwegian University of Science and Technology, NO)  
Jean-Louis Rougier (TELECOM ParisTech, FR)  

An Effective Approximation Scheme for Multiconstrained Quality-of-Service Routing  
Jun Huang (Beijing University of Posts and Telecomm., CN)  
Xiaohong Huang (Beijing University of Posts and Telecommunications, CN)  
Yan Ma (Beijing University of Posts and Telecommunications, CN)  

Correlation-Resilient Path Selection in Multi-Path Routing  
Xin Zhang (Carnegie Mellon University, US)  
Adrian Perrig (Carnegie Mellon University, US)  

Tuesday, 7 December 2010 17:20-18:30  Room: Gardenia  
SAC04: Sensing I
Is High Quality Sensing Really Necessary for Opportunistic Spectrum Usage? 
Christian Dombrowski (RWTH Aachen University, DE), Daniel Willkomm (Technische Universität Berlin, DE), Adam Wolisz (Technical University of Berlin, DE)

Optimization of Cooperative Spectrum Sensing in Ad-hoc Cognitive Radio Networks
Wenfang Xia (Huazhong University of Science and Technology, CN)

Soft Sensing-Based Multiple Access for Cognitive Radio Networks
Amr Elsherif (Alexandria University, EG), Ahmed Sultan (Nile University, EG), Karim Seddik (Alexandria University, EG)

Jointly Optimal Sensing Selection and Power Allocation in Cognitive Communications
Xin Wang (Florida Atlantic University, US)

Tuesday, 7 December 2010  17:20-18:30 Room: Flamingo
NGN04: Routing & Management in Wireless Networks
(Valentine Aalo. Florida Atlantic U, aalo@fau.edu)

On Wireless Social Community Network Routers: The Design and Cost-Sharing Problem for Better Deployment
Ranjan Pal (University of Southern California, US)

A Spectrum Trading Model with Strict Transmission Power Control
Gülfem Isiklar (Boğaziçi University, TR)
Ayse Bener (Bogazici University, TR)

Congestion Exposure in Mobile Wireless Communications
Dirk Kutscher (NEC Laboratories Europe, DE)
Henrik Lundqvist (Docomo Laboratories Europe, DE)
Faisal Mir (NEC Europe Ltd., DE)

Access Network Reselection based on Momentary Resources in a Converged Wireless Environment
Marius Corici (Fraunhofer FOKUS, DE)
Thomas Magedanz (Fraunhofer FOKUS, DE)
Dragos Vingarzan (Fraunhofer-FOKUS Institute, DE)
Cornel Pampu (Huawei Technologies Deutschland GmbH, DE)
Qing Zhou (Huawei Technologies, CN)

Tuesday, 7 December 2010  17:20-18:30 Room: Riverfront North Hall
NGN4P: Wireless networks and network architecture
(Qishi Wu, University of Memphis, qishiwu@memphis.edu)

IP Fast Reroute: NotVia with Early Decapsulation
Achieve the Degrees of Freedom of K-User MIMO Interference Channel with a MIMO Relay
Sujie Chen, Roger Cheng (HKUST, Hong Kong)

Layered Tabu Search Algorithm for Large-MIMO Detection and a Lower Bound on ML Performance
Nagaraja Srinidhi, Tanumay Datta, A. Chockalingam, B. Sundar Rajan (Indian Institute of Science, India)

Joint Iterative Channel Estimation and Data Detection for MIMO-CDMA Systems over Frequency-Selective Fading Channels
Ayman Assra, Walaa Hamouda, Amr Youssef (Concordia University, Canada)

High-Order Super-Block GLRT for Non-Coherent Grassmann Codes in MIMO-OFDM Systems
Toshiaki Koike-Akino (Harvard University, USA), Philip Orlik (Mitsubishi Electric, USA)

Tuesday, 7 December 2010   17:20-18:30 Room: Brickell Center
**WC16: Cognitive Radio IV**
(Robert Qiu, Tennessee Tech Univ, rqiu@tntech.edu)

A Two-Step Compressed Spectrum Sensing Scheme for Wideband Cognitive Radios
Yue Wang (Beijing University of Posts and Telecommunications, China), Zhi Tian
(Michigan Technological University, USA),

On the performance of an {LTE SFBC} system in frequency-selective channels in the presence of channel estimation errors
Michael Horvat, Cecilia Carbonelli (Infineon Technologies AG, German), Zijian Bai, Peter Jung (Universität Duisburg-Essen, German)

Stable Throughput Analysis of Multi-User Cognitive Cooperative Systems
Bao Xu (Southeast University, China), Martins Philippe (TELECOM ParisTech, France), Song Tiecheng, Shen Lianfeng (National Mobile Communications Research Laboratory, China)

Capacity for Spectrum Sharing Cognitive Radios with MRC Diversity at the Secondary Receiver under Asymmetric Fading
Ruifeng Duan, Mohammed Elmusrati (University of Vaasa, Finland), Riku Jantti
(Helsinki University of Technology, Finland), Reino Virrankoski (University of Vaasa, Finland)

Tuesday, 7 December 2010   17:20-18:30 Room: Brickell South
**WC28: Cooperative Communications IV**
(Tarik Ait-Idir, INPT/Telecom Bretagne, aitidir@ieee.org)

Secure Communications via Cooperative Jamming in Two-hop Relay Systems
Jing Huang, Lee Swindlehurst (University of California at Irvine, USA)

Incremental Cooperative Relaying in Time-Correlated Rayleigh Fading Channels
Nikolaj Marchenko, Wilfried Elmenreich, Christian Bettstetter (University of Klagenfurt, Austria)

A Useful Integral for Wireless Communication Theory and Its Application in Amplify-and-Forward Multihop Relaying
Imene Trigui (INRS - Centre Energie, Materiaux et Telecommunications, Canada), Sofiene Affes, Alex Stephenne (INRS-EMT, Canada)
Threshold-based Frame Error Rate Analysis of Incremental Hybrid Relay Selection Scheme
Tianxi Liu, Lingyang Song, Bingli Jiao (Peking University, China)

Tuesday, 7 December 2010  17:20-18:30 Room: Orchard D
**WC40: Communication Feedback II**
(Xiaodai Dong, University of Victoria, xdong@ece.uvic.ca)

Dynamic Feedback Allocation Algorithms For Interference Management In MIMO Uplink
Harish Ganapathy, Constantine Caramanis (The University of Texas at Austin, USA)

Quasi-MMSE/ZF Based Limited Feedback Schemes for MU-MIMO Precoding
Wei Wang, Zhan Zhang, Hidetoshi Kayama (DOCOMO Beijing Communications Laboratories Co., Ltd, China)

A Feedback Update Control Scheme for Limited Feedback Multiple Antennas Systems
Taejoon Kim, David Love (Purdue University, USA), Bruno Clerckx (Samsung Electronics, Korea)

Using Quantized Feedback to Cancel Interference in Multiple Access Channels
Feng Li, Hamid Jafarkhani (University of California, Irvine, USA)

Tuesday, 7 December 2010  17:20-18:30 Room: Orchard C
**WC52: Estimation II**
(Davide Dardari, University of Bologna, ddardari@ieee.org)

A Novel Method for Position Estimation of Passive RFID Tags; Swift Communication Range Recognition (S-CRR) Method
Manato Fujimoto, Norie Uchitomi, Atsuki Inada, Tomotaka Wada (Kansai University, Japan), Kouichi Mutsuura (Shinshu University, Japan), Hiromi Okada (Kansai University, Japan)

Estimation and Modelling of NLoS Time-Variant Multipath for Localization Channel Model in Mobile Radios
Wei Wang, Jost Thomas, Armin Dammann (German Aerospace Center (DLR), German)

Received Signal Compensation-Based Position Estimation of Outdoor RFID nodes
Mohamed Amine Abid, Soumaya Cherkaoui (University of Sherbrooke, Canada)

An Upper Bound on the Probability of Instability of a DVB-T/H Repeater with a Digital Echo Canceller
Matteo Mazzotti, Flavio Zabini, Davide Dardari, Oreste Andrisano (University of Bologna, Italy)
Indoor LOS MIMO Channel Measurements with a Focus on Antenna Array Design
Christian Hofmann (Munich University of the Bundeswehr, Germany), Andreas Knopp
(Fed. Office of the Bundeswehr for Information Technology, Germany), Berthold Lankl
(Munich University of the German Armed Forces (Bundeswehr), Germany)

Optimal Training in Large TDD Multi-user Downlink Systems under Zero-forcing and
Regularized Zero-forcing Precoding
Sebastian Wagner (Eurecom, France), Romain Couillet, Merouane Debbah (Supelec,
France), Dirk Slock (Eurecom, France)

Exact and Asymptotic SER of Nonregenerative Relaying in MIMO Multi-Relay
Networks
Maged Elkashlan (CSIRO, ICT Centre, Australia), Phee Lep Yeoh (University of
Sydney, Australia), Iain Collings (CSIRO, Australia)

Diversity Analysis of EGT and LTE Precoders for Multiuser MIMO
Rizwan Ghaffar (Institut Eurecom, France)

Statistical Modeling of Underwater Wireless Channels
Alenka Zajic (Georgia Institute of Technology, USA)