Wednesday, December 8

10:00 - 11:10

AHSN05: Routing V

Room: Tuttle South
Preserving Source-Location Privacy in Wireless Sensor Network using STaR Routing
   Leron Lightfoot (Michigan State University, USA); Yun Li (Michigan State University, USA); Jian Ren (Michigan State University, USA)
Contour-Based Hole Avoiding Routing Protocol in Wireless Sensor Networks
   Guey-Yun Chang (National Central University, Taiwan); Jang-Ping Sheu (National Tsing Hua University, Taiwan)
Using Reconfigurable Hardware Devices in WSNs for Reducing the Energy Consumption of Routing and Security Tasks
   Georgios-Grigorios Mplemenos (Technical University of Crete, Greece); Konstantinos Papadopoulos (Technical University of Crete, Greece); Ioannis Papaefstathiou (Technical University of Crete, Greece)
Adaptive Parametric Routing based on Dynamic Metrics
   Nesrine Ouferhat (University Paris, France); Abdelhamid Mellouk (UPEC, University Paris-Est Creteil Val de Marne, France)

AHSN17: Performance Analysis and Modelling I

Room: Tuttle Center
Performance Analysis of Multi-Channel MAC Protocols in Multi-Hop Ad Hoc Networks
   Long Le (NEC Laboratories Europe, Germany)
Multicasting vs. Broadcasting: What are the Trade-offs?
   Bora Karaoglu (University of Rochester, USA); Wendi Heinzelman (University of Rochester, USA)
Maximum Throughput of IEEE 802.15.4 Enabled Wireless Sensor Networks
   Xianghui Cao (Zhejiang University, P.R. China); Jiming Chen (Zhejiang University, P.R. China); Youxian Sun (Zhejiang University, P.R. China); Sherman Shen (University of Waterloo, Canada)
Performance Analysis of Broadcast Messages in VANETs Safety Applications
   Khalid Abdel Hafeez (Ryerson University, Canada); Lian Zhao (Ryerson University, Canada); Zaiyi Liao (Ryerson University, Canada); Ngok-Wah Ma (Department of Electrical and Computer Engineering, Ryerson University, Canada)

AHSN29: Resource Management

Room: Jasmine
Outage Probability Based Resource Allocation in Wireless Mesh Networks
   Xuning Shao (Zhejiang University, P.R. China); Cunqing Hua (Zhejiang University, P.R. China); Aiping Huang (Zhejiang University, P.R. China)
Towards Efficient Use of Radio Resources in Single Channel Wireless Mesh Networks
Rami Langar (UPMC - University of Paris 6, France); Salsabil Njima (UPMC - University of Paris 6, France); Nizar Bouabdallah (INRIA, France); Raouf Boutaba (University of Waterloo, Canada); Guy Pujolle (University of Paris 6, France)

Protocol-Agnostic Compression for Resource-Constrained Wireless Networks
Travis L. Massey (University of California, Berkeley, USA); Ankur Mehta (University of California Berkeley, USA); Thomas Watteyne (Berkeley Sensor & Actuator Center, UC Berkeley, USA); Kristofer Pister (UC Berkeley, USA)

LQR Formulation of Sensor Deployment for Decision Fusion Based Detection
Ahmad Ababnah (Kansas State University, USA); Bala Natarajan (Kansas State University, USA)

AHSN5P: Topics in Ah Hoc, Sensor, and Mesh Networks V (Poster)
Room: Riverfront North Hall
COSMO: CO-Simulation with MATLAB and OMNeT++ for Indoor Wireless Networks
Zhi Zhang (Royal Institute of Technology, Sweden); Zhonghai Lu (Royal Institute of Technology (KTH), Sweden); Li-Rong Zheng (Royal Institute of Technology (KTH), Sweden); Xiaolang Yan (Zhejiang University, P.R. China); Qiang Chen (Royal Institute of Technology, Sweden)

Q-HWMP: improving end-to-end QoS for 802.11s mesh networks based
Mohamed Ould Cheikh (Laboratoire Lamsade, France); Lynda Mokdad (Université de Paris 12, France)

Feasibility and Benefits of Passive RFID Wake-up Radios for Wireless Sensor Networks
He Ba (University of Rochester, USA); Ilker Demirkol (University of Rochester, USA); Wendi Heinzelman (University of Rochester, USA)

FLIMS: A Fuzzy-Logic based Mobility management Scheme in Mobile Ad Hoc Network
Hailun Tan (University of New South Wales, Australia)

Compact Wakeup Scheduling in Wireless Sensor Networks
Junchao Ma (The Hong Kong Polytechnic University, Hong Kong); Wei Lou (The Hong Kong Polytechnic University, Hong Kong)

Favorable Peer Supported Throughput Optimization in Wireless Mesh Network
Mohammad Zulhasnine (Carleton University, Canada); Changcheng Huang (Carleton University, Canada); Anand Srinivasan (Carleton University, Canada)

CT05: Interference Alignment I
Room: Hibiscus B
Two-Cell Downlink Noncoherent Cooperation without Transmitter Phase Alignment
Mingguang Xu (Northwestern University, USA); Dongning Guo (Northwestern University, USA); Michael Honig (Northwestern University, USA)

Exploiting Channel Correlations - Simple Interference Alignment Schemes with no CSIT
Syed Ali Jafar (University of California Irvine, USA)

Mobility and Fading: Two Sides of the Same Coin
New Observations on Interference Channels Under Strong and Very Strong Interference
Zhenhua Gong (University of Notre Dame, USA); Martin Haenggi (University of Notre Dame, USA)

Outage Performance of Cognitive-Radio Relay System based on the Spectrum-Sharing Environment
Yanyan Guo (Beijing University of Posts and Telecommunications, Ministry of Education, China, P.R. China)

CT10: Wireless Networks I
Room: Hibiscus A

Relay Network Beamforming and Power Control Using Maximization of Mutual Information
Javier M. Paredes (Technische Universität Darmstadt, Germany); Alex Gershman (Darmstadt University of Technology, Germany)

On the Degrees of Freedom of Parallel Relay Networks
Chao Wang (Royal Institute of Technology (KTH), Sweden); Hamed Farhadi (Royal Institute of Technology (KTH), Sweden); Mikael Skoglund (Royal Institute of Technology, Sweden)

A Relay Region Based Routing for Multihop Wireless Networks with Directional Antennas
Di Li (Beijing University of Posts and Telecommunication, P.R. China); Changchuan Yin (Beijing University of Posts and Telecommunications, P.R. China); Changhai Chen (Beijing University of Posts and telecommunications, P.R. China)

CT1P: Analysis II
Room: Riverfront North Hall

On Wireless Channels with M-Antenna Eavesdroppers: Characterization of the outage probability and outage Secrecy Capacity
Vinay Uday Prabhu (University of Porto, Portugal); Miguel Rodrigues (University of Porto, Portugal)

Outage and Diversity-Multiplexing Trade-off Analysis of Closed and Open-Access Femtocells
Tariq Elkourdi (New Jersey Institute of Technology, USA); Osvaldo Simeone (New Jersey Institute of Technology, USA)

Analytical Performance of Rayleigh-Product MIMO Channels with Arbitrary-Power Co-channel Interference and Noise
Yongpeng Wu (Southeast University, P.R. China); Shi Jin (Southeast University, P.R. China); Xiqi Gao (Southeast University, P.R. China)

Novel Simple Forms for Multivariate Rayleigh and Rician Distributions With Generalized Correlation
Tightened Upper Bounds for TPC coded Free Space Optical Links over Atmospheric Turbulence Channels

Yongxiong Ren (School of Electrical and Computer Science, Peking University, P.R. China); Anhong Dang (Peking University, P.R. China); Hong Guo (School of Electrical and Computer Science, Peking University, P.R. China)

ONS05: Optical Access

Room: Tuttle North
Unbundling in WDM-PON Based on All-optical Switching
Antonella Bogoni (CNIT, Italy); Paolo Ghelfi (CNIT, Italy); Nicola Andriolli (Scuola Superiore Sant'Anna, Italy); Antonio D'Errico (Ericsson, Italy); Giorgio Grasso (Pirelli, Italy)

GATE-driven Dynamic Bandwidth Allocation for WDM EPONs
Nelson Antunes (University of Algarve, Portugal); Christine Fricker (INRIA, France); Philippe Robert (INRIA, France); James Roberts (INRIA, France)

Design of the hybrid PON system for GPON reach extension on the basis of colorless DWDM-PON and 3R Regenerator
Kwang-ok Kim (ETRI, Korea); Kyeong Hwan Doo (ETRI, Korea); Sang Soo Lee (ETRI, Korea)

Performance Analysis of QoS-Aware Layer-2 VPNs over Fiber-Wireless (FiWi) Networks
Ahmad R. Dhaini (University of Waterloo, Canada); Pin-Han Ho (University of Waterloo, Canada); Abdallah Shami (The University of Western Ontario, Canada); Xiaohong Jiang (Future University-Hakodate, Japan)

ONS1P: Optical Switching I

Room: Riverfront North Hall
Crosstalk limiting schedulers in AWG based optical switches
Andrea Bianco (Politecnico di Torino, Italy); Francisco Castano (Universidad de Vigo, Spain); Davide Cuda (Politecnico di Torino, Italy); Guido Alejandro Gavilanes Castillo (Politecnico di Torino, Italy); Cristina Lopez-Bravo (Universidad de Vigo, Spain); Fabio Neri (Politecnico di Torino, Italy); Miguel Rodelgo-Lacruz (Gradiant, Spain); Maria Salvat (Universitat Politeneica de Catalunya, Spain)

Fair bandwidth allocation with distance fairness provisioning in optical burst switching networks
Tananun Orawiwattanakul (The National Institute of Informatics, Japan); Yusheng Ji (National Institute of Informatics, Japan); Noboru Sonehara (National Institute of Informatics, Japan)

Fast Scheduling for Optical Flow Switching
Lei Zhang (MIT, USA); Vincent Chan (Massachusetts Institute of Technology, USA)
Performance Evaluation of TCP over Optical Burst Switched (OBS) Networks using Coordinated Burst Cloning and Forward-Segment Redundancy
Julie Sullivan (University of Massachusetts Dartmouth, USA); Neal Charbonneau (University of Massachusetts Dartmouth, USA); Vinod M. Vokkarane (University of Massachusetts Dartmouth, USA)
Continuous and Parallel Optimization of Dynamic Bandwidth Scheduling for WDM Networks
Pragatheeswaran Angu (University of Nebraska Lincoln, USA); Byrav Ramamurthy (University of Nebraska-Lincoln, USA)

SPC05: Cognitive Radio

Room: Tequesta
Robust downlink beamforming for cognitive radio networks
Imran Wajid (Darmstadt University of Technology, Germany); Marius Pesavento (Technische Universität Darmstadt, Germany); Yonina C. Eldar (Technion---Israel Institute of Technology, Israel); Alex Gershman (Darmstadt University of Technology, Germany)
Minimum-Delay Spectrum Sensing for Multi-Band Cognitive Radios
Seung-Jun Kim (University of Minnesota, USA); Guobing Li (Xi'an Jiaotong University, P.R. China); Georgios B. Giannakis (University of Minnesota, USA)
Nonsmooth Optimization for Beamforming in Cognitive Multicast Transmission
Anh Phan (University of New South Wales, Australia); Hoang D. Tuan (UNSW, Australia); Kha Ha (University of New South Wales, Australia); Duy T Ngo (McGill University, Canada)
Sensing Time and Power Allocation Optimization in Wideband Cognitive Radio Networks
Stergios Stotas (King's College London, United Kingdom); Nallanathan Arumugam (King's College London, United Kingdom)

SPC11: SIMO, MISO and MIMO Systems I

Room: IBIS
MIMO Maximum Likelihood Soft Demodulation Based on Dimension Reduction
Jungwon Lee (Marvell Semiconductor, USA); Jiwoong Choi (Marvell Semiconductor, USA); Hui-Ling Lou (Marvell Semiconductor, Inc., USA)
Decoding for MIMO systems with imperfect channel state information
Boon Sim Thian (Stanford University, USA); Andrea Goldsmith (Stanford University, USA)
An Equal Gain Transmission in MIMO Wireless Communications
Shang-Ho Tsai (National Chiao Tung University, Taiwan)
Orthogonal Pulse Compression Codes for MIMO Radar System
Lei Xu (UTA, USA); Qilian Liang (University of Texas at Arlington, USA)

WN05: Cognitive Networking II
Dynamic Interference Minimization Routing Game for On-Demand Cognitive Pilot Channel
Quanyan Zhu (University of Illinois at Urbana Champaign, USA); Zhou Yuan (University of Houston, USA); Ju Bin Song (Kyung Hee University, Korea); Zhu Han (University of Houston, USA); Tamer Başar (University of Illinois at Urbana-Champaign, USA)

Spectrum Aware Opportunistic Routing in Cognitive Radio Networks
Shih Chun Lin (National Taiwan University, Taiwan); Kwang-Cheng Chen (National Taiwan University, Taiwan)

Topology-incurred Delay for Information Dissemination in Large Multi-channel Cognitive Radio Networks
Lei Sun (NC State University, USA); Wenye Wang (NC State University, USA)

Modeling and Analysis for Reactive-Decision Spectrum Handoff in Cognitive Radio Networks
Chung-Wei Wang (National Chiao Tung University, Taiwan); Li-Chun Wang (National Chiao Tung University, Taiwan); Fumiyuki Adachi (Tohoku University, Japan)

WN17: 802.16 / WiMAX Networks II

Room: Gautier
A Novel Adaptive Mapping Scheme for IEEE 802.16 Mobile Downlink Framing
Panagiotis Sarigiannidis (Aristotle University Thessaloniki, Greece); Georgios Papadimitriou (Aristotle University, Greece); Petros Nicopolitidis (Aristotle University, Greece); Mohammad S. Obaidat (Monmouth University, USA); Andreas Pomportsis (Aristotle University, Greece)

Multi-Carrier Admission Control and Carrier Assignment for IEEE 802.16m Wireless Networks
Hsiao-Chen Lu (National Taiwan University, Taiwan); Chih-Hsiang Tang (National Taiwan University, Taiwan); Sheng-Wei Lin (National Taiwan University, Taiwan); Wanjiun Liao (National Taiwan University, Taiwan)

Advanced Mechanisms for Sleep Mode Optimization of VoIP Traffic over IEEE 802.16m
Ritesh Kumar Kalle (IIIT Bangalore, India); Maruti Gupta (Intel Corp., USA); Aran Bergman (Intel, Israel); Elad Levy (Intel, USA); Shantidev Mohanty (Intel Corporation, USA); Muthaiah Venkatachalam (Intel Corporation, USA); Debabrata Das (International Institute of Information Technology - Bangalore, India)

On the Impact of IEEE 802.16 Bandwidth Request-Grant Mechanisms on TCP
Yubo Yang (Telecom Bretagne, France); Andrés Arcia (Universidad de Los Andes, Venezuela); Nicolas Montavont (Institut Telecom / Telecom Bretagne, France); David Ros (TELECOM Bretagne, France)

WN29: Wireless Sensor Network Design II
Room: Merrick I
Decentralized Sensor-Coordination Optimization for Mobile Multi-Target Tracking in Wireless Sensor Networks
Xi Zhang (Texas A&M University, ECE Department, USA)

Energy Consumption and Latency Analysis for Wireless Multimedia Sensor Networks
Alvaro Pinto (University of Nebraska Lincoln, USA); Zhe Zhang (University of Nebraska-Lincoln, USA); Xin Dong (University of Nebraska-Lincoln, USA); Senem Velipasalar (University of Nebraska-Lincoln, USA); Mehmet Can Vuran (University of Nebraska-Lincoln, USA); M. Cenk Gursoy (University of Nebraska-Lincoln, USA)

Vision Graph Construction in Wireless Multimedia Sensor Networks
Xin Dong (University of Nebraska-Lincoln, USA); Mehmet Can Vuran (University of Nebraska-Lincoln, USA)

Distributed Inter-Network Interference Coordination for Wireless Body Area Networks
Gengfa Fang (Macquarie University, Australia); Eryk Dutkiewicz (Macquarie University, Australia); Kegen Yu (Macquarie University, Australia); Rein Vesilo (Macquarie University, Australia); Yiwei Yu (Macquarie University, Australia)

WN5P: Resource Management in Wireless Networks II (poster)

Room: Riverfront North Hall
A dynamic framed ALOHA scheme for batch resolution in practical CSMA-based wireless networks
Andrea Zanella (University of Padova, Italy)

Detecting Hidden Terminal Problems in Densely Deployed Wireless Networks
Koichi Nishide (Kyoto University, Japan); Hiroyuki Kubo (Kyoto University, Japan); Ryoichi Shinkuma (Kyoto University, Japan); Tatsuro Takahashi (Kyoto University, Japan)

Slow Start Backoff Algorithm for Ad-Hoc Wireless Networks
Der-Jiunn Deng (National Changhua University of Education, Taiwan); Han-Chieh Chao (National Ilan University, Taiwan); Hsiao-Hwa Chen (National Cheng Kung University, Taiwan)

On Hybrid Multiple Access and Its Reuse Partitioning
Feng Wang (Peking University, P.R. China); Bingli Jiao (Peking University, P.R. China); Yuping Zhao (Peking University, P.R. China)

A Double-Loop Receiver-Initiated Medium Access Control Scheme for Data Dissemination Services with Packet Pre-Downloading
Hao Liang (University of Waterloo, Canada); Weihua Zhuang (University of Waterloo, Canada)

Expanding Horizon and Capture Effect in RFID Singulation
Charles-François Natali (University of Illinois at Urbana-Champaign, France); Nitin Vaidya (University of Illinois at Urbana-Champaign, USA); Victor K.Y. Wu (University of Illinois at Urbana-Champaign, USA)

Wednesday, 8 December 2010, 10:00-11:10   Room: Pearson I
CIS08 Anomaly Detection
Session Chair: Kuai Xu

Fast Anomaly Detection for Large Data Centers
Ang Li, Lin Gu (Hong Kong University of Science and Technology, HK), Kuai Xu (Arizona State University, US)

Networking Anomaly Detection using DSNS and Particle Swarm Optimization with Re-Clustering
Moisés Fernández Lima, Lucas Dias Sampaio (State University of Londrina, BR), Bruno Zarpelão (University of Campinas, BR), Joel Rodrigues (IT, University of Beira Interior, PT), Taufik Abrão, Mario Lemes Proença Jr. (State University of Londrina, BR)

Fast String Matching with Overlapped Substring Classifier in Deep Packet Inspection Systems
Zhihao Zhang, Youjian Zhao (Tsinghua University, CN)

An Evaluation of Anomaly Detection Based on Sketch and PCA
Yoshiki Kanda (Waseda University, JP), Kensuke Fukuda (National Institute of Informatics, JP), Toshiharu Sugawara (Waseda University, JP)

Wednesday, 8 December 2010  10:00-11:10   Room: Merrick II

CSSMA05: Peer-to-Peer technologies for communication services
Session Chair: TBD()

Extending the DLNA-based Multimedia Sharing System to P2P Network on OSGi Frameworks
Chin-Feng Lai (National Cheng Kung University, TW)
Min Chen (Seoul National University, KR)
Athanasios Vasilakos (University of Western Macedonia, GR)
Yueh-Min Huang (National Cheng Kung University, TW)

Enhancing Content Distribution Performance of Locality-aware BitTorrent Systems
Zhenyu Li (Institute of Computing Technology, Chinese Academy of Sciences, CN)
Gao-Gang Xie (Institute of Computing Technology, Chinese Academy of Sciences, CN)

Core Tree Optimization in Hybrid Peer to Peer Real Time Broadcasting System
Sanghwan Lee (Kookmin University, KR)
Sambit Sahu (IBM Research, US)

Multiparty Seamless Transport
Nuno Coutinho (Instituto de Telecomunicações, Universidade de Aveiro, PT)
Tiago Silvestre Condeixa (Instituto de Telecomunicações, PT)
Rui Valbom (Instituto de Telecomunicações, PT)
Susana Isabel Barreto de Miranda Sargento (Instituto de Telecomunicações, Universidade de Aveiro, Portugal, PT)
Fast Heuristics for the QoS Multicast Routing Problem  
Bellabas Alia (INSA Rennes, FR)  
Samer Lahoud (IRISA - Université de Rennes 1, FR)  
Miklos Molnar (INSA Rennes / IRISA, FR)

QoS Routing in Smart Grid  
Husheng Li (University of Tennessee, US)  
Weiyi (Max) Zhang (North Dakota State University, US)

Time Lagged Location-based Routing in Vehicular Ad Hoc Networks  
Zhi Li (Shanghai Jiao Tong University, CN)  
Yanmin Zhu (Shanghai Jiao Tong University, CN)  
Minglu Li (Shanghai Jiao Tong University, CN)  
Bo Li (Hong Kong University of Science and Technology, HK)

Efficient Mobile Content Delivery Based on Co-route Prediction in Urban Transport  
Le Shu (Huazhong University of Science and Technology, CN)  
Hongbo Jiang (Huazhong University of Science and Technology, CN)  
Xiaoqiang Ma (Huazhong University of Science and Technology, CN)  
Lanchao Liu (Huazhong University of Science and Technology, CN)  
Kai Peng (Huazhong University of Science and Technology, CN)  
Bo Liu (Huazhong University of Science and Technology, CN)  
Jie Cheng (Huazhong University of Science and Technology, CN)  
Yanbo Xu (Huazhong University of Science and Technology, CN)

Short Erasure Correcting LDPC IRA Codes over GF(q)  
Giuliano Garrammone (German Aerospace Center (DLR), Germany); Balazs Matuz (German Aerospace Center (DLR), Germany)

Multidimensional Multilevel Coding for Satellite Broadcasting with Highly Flexible QoS  
Aharon Vargas (Fraunhofer Institute for Integrated Circuits (IIS), Germany);  
Wolfgang Gerstacker (University of Erlangen-Nuernberg, Germany); Marco Breiling (Fraunhofer IIS, Germany); Gökhan Gül (No affiliation, Turkey)

An efficient LDGM coding scheme for optical satellite-to-ground link based on a new channel model
Yoshitoshi Yamashita (Nagoya Institute of Technology, Japan); Eiji Okamoto (Nagoya Institute of Technology, Japan); Yasunori Iwanami (Nagoya Institute of Technology, Japan); Yozo Shoji (National Institute of Information and Communications Technology, Japan); Morio Toyoshima (National Institute of Information and Communications Technology, Japan); Yoshihisa Takayama (National Institute of Information and Communications Technology, Japan)

Online Network Coding for Time-Division Duplexing
Daniel E. Lucani (Massachusetts Institute of Technology, USA); Muriel Medard (MIT, USA); Milica Stojanovic (Northeastern University, USA)

Wednesday, 8 December 2010 10:00-11:10 Room: Flamingo

NGN05: Load Balancing in Mobile Networks
Session Chair: TBA

Load Balancing via Store-Carry and Forward Relaying in Cellular Networks
Panayiotis Kolios (King's College London, UK)
Vasilis Friderikos (King's College London, UK)
Katerina Papadaki (London School of Economics, UK)

Evaluation of Call Dropping Probability for a Heterogeneous Wireless Network with Uniformly Distributed Handoff Failure Rates
Valentine Aalo (Florida Atlantic University, US)
George Efthymoglou (University of Piraeus, GR)

Conflict Avoidance between Mobility Robustness Optimization and Mobility Load Balancing
Zhiqiang Liu (University of Science and Technology of China (USTC), CN)
Peilin Hong (USTC, CN)
Kaiping Xue (University of Science and Technology of China, CN)
Min Peng (University of Science and Technology of China, CN)

Congestion Games for Distributed Radio Access Selection in Broadband Networks
Marc Ibrahim (Saint Joseph University, LB)
Kinda Khawam (Université de Versailles, FR)
Samir Tohme (University of Versailles, FR)

Wednesday, 8 December 2010 10:00-11:10 Room: Brickell North

WC05: MIMO V
Session Chair: TBA

Dual-hop Amplify-and-Forward MIMO Relaying with Antenna Selection in Nakagami-m Fading
Nan Yang (University of New South Wales, Australia), Maged Elkashlan (CSIRO, ICT Centre, Australia), Jinhong Yuan (University of New South Wales, Australia)

A Full-Diversity Low-Complexity Concatenated Coding Scheme for MIMO Systems
Wei Ning An, Walaa Hamouda (Concordia University, Canada)

Degrees of Freedom on MIMO Multi-Link Two-Way Relay Channels
Kwangwon Lee, Seok-Hwan Park, Inkyu Lee (Korea University, Korea)

Low Complexity Joint User and Mode Selection Algorithm for Multiuser MIMO Downlink Systems
Jin-Sung Kim, Kyoung-Jae Lee, Inkyu Lee (Korea University, Korea)

Wednesday, 8 December 2010 10:00-11:10 Room: Brickell Center
**WC17: Game Theory I**
Session Chair: TBA

Joint Optimization of Detection and Power Allocation for OFDM-based Cognitive Radios
Xiaoge Huang, Baltasar Beferull-Lozano (Universidad de Valencia, Spain)

A Spatial Game for Access Points Placement in Cognitive Radio Networks with Multi-Type Service
Dapeng Li, Youyun Xu, Jing Liu, Xinbing Wang (Shanghai Jiaotong University, China), Mohsen Guizani (WMU, USA)

Distributed Energy Efficient Spectrum Sharing Strategy Selection with Limited Feedback in MIMO Interference Channels
Wei Zhong (Shanghai Jiao Tong University, China), Youyun Xu (PLA University of Science & Technology, China)

Game-Theoretic Resource Allocation for Two-Hop Interference Channels
Yi SHI, Khaled Letaief (Hong Kong University of Science & Technology, Hong Kong), R. K. Mallik (Indian Institute of Technology - Delhi, India)

Wednesday, 8 December 2010 10:00-11:10 Room: Brickell South
**WC29: Cooperative Communications V**
Session Chair: TBA

Relay-Induced Error Propagation Reduction for Decode-and-Forward Cooperative Communications
Dandan Liang, Soon Xin Ng, Lajos Hanzo (University of Southampton, United Kingdom)

Optimal Sum Rate of the MIMO Relay Communication System
Peter He, Lian Zhao, Zaiyi Liao (Ryerson University, Canada)
Average Spectral Efficiency for Opportunistic QRD-based Cyclic Prefixed Single-Carrier Cooperative Diversity Systems with Power Allocation
Kyeong Jin Kim (None, USA), Theodoros Tsiftsis (Technological Educational Institute (TEI) of Lamia, Greece), George Karagiannidis (Aristotle University of Thessaloniki, Greece)

Convergence Property of Transmit Time Pre-Synchronization for Concurrent Cooperative Communication
Yong Jun Chang, Mary Ann Ingram (Georgia Tech, USA)

Wednesday, 8 December 2010  10:00-11:10 Room: Orchard D
**WC41: Optimization I**
Session Chair: TBA

Chemical Reaction Optimization for Cognitive Radio Spectrum Allocation
Albert Lam, Victor Li (University of Hong Kong, Hong Kong)

Throughput Optimization in Cognitive Random Wireless Ad hoc Networks
Alireza Babaei (Auburn University, USA), Bijan Jabbari (George Mason University, USA)

Subchannel-Sharing Based Distributed Optimization of Ad-Hoc Cognitive Radio Network
Yao Ma (Wright State University, USA), Dong In Kim (Sungkyunkwan University, Korea)

On Amplify-and-Forward Relay Networks with Multiple Source-Destination Pairs
Yupeng Liu, Athina Petropulu (Drexel University, USA)

Wednesday, 8 December 2010  10:00-11:10 Room: Orchard C
**WC53: Fading Channels I**
Session Chair: TBA

Performance of Power-Efficient Adaptive Interference Cancelation in Fading Channels
Redha Radaydeh (KAUST, Saudi Arabia), Mohamed-Slim Alouini (Texas A&M University at Qatar, Qatar)

Iterative Primal-Dual Scaled Gradient Algorithm with Dynamic Scaling Matrices for Solving Distributive NUM over Time-Varying Fading Channels
Yong Cheng, Vincent Lau (the Hong Kong University of Science & Technology, Hong Kong)

Adaptive M-QAM Systems with Diversity in Correlated Nakagami-m Fading and Shadowing
George Alexandropoulos (University of Patras, Greece), Andrea Conti (ENDIF University of Ferrara, WiLAB University of Bologna, Italy), Mathiopoulos Panayiotis (Institute for Space Applications & Remote Sensing, Greece)
Cooperative Systems for the Fading Channel with Adaptive Modulation and Incremental Encoding
Fulvio Babich (University of Trieste, Italy)

Wednesday, 8 December 2010   10:00-11:10 Room: Riverfront North Hall
WC5P: Multi-Carrier Systems

A Novel TDS-FDMA Scheme for Multi-User Uplink Scenarios
Linglong Dai, Zhaocheng Wang, Jun Wang, Yang Zhixing (Tsinghua University, China)

Distributed Adaptive Subchannel and Power Allocation for Downlink OFDMA with Inter-Cell Interference Coordination
Haichao Zhang, Qinghai Yang (Xidian University, Chia), Feifei Gao (Jacobs University, German), Kyung Sup Kwak (Inha University, Korea)

A New Partial Loading Scheme for Interference Management in OFDM Cellular Networks
Weiwei Chen, Chin Tau Lea (Hong Kong University of Science and Technology, Hong Kong)

Network Coverage in Multicarrier Broadcast System
Siqian Liu, Hongxiang Li, Benjamin Braaten (North Dakota State University, USA)

Robust Pilot Designs for Consistent Frequency Offset Estimation in OFDM systems
Kilbom Lee, Inkyu Lee (Korea University, Korea)

Robust Synchronization for 3GPP LTE System
Wen Xu (Infineon Technologies, German)
Wednesday, December 8

11:20 - 12:30

AHSN06: Routing VI

Room: Tuttle South
An Energy Efficient Channel Assignment and Routing Algorithm for Multi-Radio Wireless Mesh Networks
Stefano Avallone (University of Naples, Italy)

Lightweight Routing with QoS Support in Wireless Sensor and Actor Networks
Mustafa Akbas (University of Central Florida, USA); Damla Turgut (University of Central Florida, USA)

A Cross-layer and Adaptive Scheme for Balancing Performance and Security on WMN Data Routing
Michele Nogueira (Federal University of Parana, Brazil); Helber W. da Silva (University of Fortaleza, Brazil); Raimir Holanda (University of Fortaleza, Brazil); Aldri Santos (UFPR, Brazil)

Reducing Routing Loops under Dynamic Metrics in Wireless Mesh Networks
Takuya Yoshihiro (Wakayama University, Japan)

AHSN18: Performance Analysis and Modelling II

Room: Tuttle Center
Performance of IEEE 802.11 RTS/CTS with Finite Buffer and Load in Imperfect Channels: Modeling and Analysis
Ahed M. Alshanyour (Concordia University, Canada); Anjali Agarwal (Concordia University, Canada)

Delay Analysis for a Reliable Message Delivery in Sparse Vehicular Ad Hoc Networks
Atef Abdabou (UAE University, UAE); Ben Liang (University of Toronto, Canada); Weihua Zhuang (University of Waterloo, Canada)

Modeling and Throughput Analysis for X-MAC with a Finite Queue Capacity
Ou Yang (University of Rochester, USA); Wendi Heinzelman (University of Rochester, USA)

Joint UKF and MMSE Channel Estimation for Uplink 2-Dimensional Block Spread MC-CDMA with Cyclic Delay Transmit Diversity
Xi Chen (Harbin Institute of Technology, P.R. China); Weixiao Meng (Harbin Institute of Technology, P.R. China); Qiuyue Yu (Harbin Institute of Technology, P.R. China); Zhongzhao Zhang (Harbin Institute of Technology, P.R. China)

AHSN30: VANET and Mobility

Room: Jasmine
Design Guidelines for a Network Architecture Integrating VANET with 3G & Beyond Networks
Tarik Taleb (NEC Europe Ltd., Germany); Abderrahim Benslimane (University of Avignon, France)

A Tolerant Context-Aware Driver Assistance System for VANETs-Based Smart Cars
Ihn-Han Bae (Catholic University of Daegu, Korea); Stephan Olariu (Old Dominion University, USA)

Impact of Mobility on VANETs Safety Applications
Khalid Abdel Hafeez (Ryerson University, Canada); Lian Zhao (Ryerson University, Canada); Zaiyi Liao (Ryerson University, Canada); Ngok-Wah Ma (Department of Electrical and Computer Engineering, Ryerson University, Canada)

An Anti-Detection Moving Strategy for Mobile Sink
Zhou Sha (Shanghai Jiao Tong University, P.R. China); Jia-Liang Lu (Shanghai Jiao Tong University, P.R. China); Xu Li (State University of New York at Buffalo, USA); Min-You Wu (Shanghai Jiao Tong University, P.R. China)

**AHSN6P: Topics in Ad Hoc, Sensor, and Mesh Networks VI (Poster)**

Room: Riverfront North Hall
Strategy for Desired Communication Reliability with Minimized Total Retransmission in Sensor Networks
SungKee Noh (ETRI, Korea); Euisin Lee (Chungnam National University, Korea); Seungmin Oh (Chungnam National University, Korea); Tae-Ho Lee (ETRI, Korea); Sang-Ha Kim (Chungnam National University, Korea)

On the Coexistence of Uncoordinated Ad-hoc Networks
Junaid Ahmed (University of Manchester, United Kingdom); Khairi A. Hamdi (University of Manchester, United Kingdom)

CFP: Integration of Fountain Codes and Optimal Probabilistic Forwarding in DTNs
Ying Dai (Nanjing University, P.R. China); Panlong Yang (Nanjing University, P.R. China); Guihai Chen (Nanjing University, P.R. China); Jie Wu (Temple University, USA)

Compressive Data Persistence in Large-Scale Wireless Sensor Networks
Mu Lin (Beihang University, P.R. China); Chong Luo (Microsoft Research Asia, P.R. China); Feng Liu (Beijing University of Aeronautics and Astronautics, P.R. China); Feng Wu (Microsoft Research Asia, P.R. China)

Empirical Modeling and Estimation of End-to-End VoIP Delay over Mobile Multi-hop Wireless Networks
Volkan Rodoplu (University of California, Santa Barbara, USA); Snehal Vadvalkar (University of California, Santa Barbara, USA); Amir Aminzadeh Gohari (University of California, Santa Barbara, USA); John J. Shynk (University of California, Santa Barbara, USA)

Network Tomography via Compressed Sensing
Mohammad Hamed Firooz (University of Washington, USA)

**CT06: Interference Alignment II**

Room: Hibiscus B
Large System Performance of Interference Alignment in Single-Beam MIMO Networks
David A. Schmidt (Technische Universität München, Germany); Wolfgang Utschick (Technische Universität München, Germany); Michael Honig (Northwestern University, USA)

Downlink Interference Alignment
Changho Suh (University of California at Berkeley, USA); David Tse (University of California at Berkeley, USA); Minnie Ho (Intel Labs, Intel Corporation, USA)

A General Closed-Form Solution to Achieve Interference Alignment along Spatial Domain
Yinggang Du (Huawei Technologies Co., Ltd, P.R. China); Sheng Liu (Huawei Technologies Co. Ltd, P.R. China)

Interference Alignment as a Rank Constrained Rank Minimization
Dimitris Papailiopoulos (University of Southern California, USA); Alex Dimakis (University of Southern California, USA)

CT11: Wireless Networks II

Room: Hibiscus A
Protocol Coding for Two-Way Communications with Half-Duplex Constraints
Petar Popovski (Aalborg University, Denmark); Osvaldo Simeone (New Jersey Institute of Technology, USA)

Contention Resolution Diversity Slotted ALOHA with Variable Rate Burst Repetitions
Gianluigi Liva (DLR (German Aerospace Center), Germany)

Javier Matamoros (Centre Tecnologic de Telecomunicacions de Catalunya (CTTC), Spain); Carles Anton-Haro (Telecommunications Technological Center of Catalonia (CTTC), Spain)

The Impact of Limited Information on Proportional Fair Scheduling In Wireless Networks
Hui Zhou (Tsinghua University, P.R. China); Pingyi Fan (Tsinghua University, P.R. China); Dongning Guo (Northwestern University, USA)

CT2P: Transmission Techniques II

Room: Riverfront North Hall
Iterative Polite Water-Filling for Weighted Sum Rate Maximization in iTree Networks
Liu An (Peking University, P.R. China); Youjian (Eugene) Eugene Liu (University of Colorado at Boulder, USA); Haige Xiang (Peking University, P.R. China); Wu Luo (Peking University, P.R. China)

On Greedy Based Methods for EXIT Chart Based Transmission Power Allocation
Juha Karjalainen (University of Oulu, Finland); Marian Codreanu (University of Oulu, Finland); Antti Toll (University of Oulu, Finland); Markku Juntti (University of Oulu, Finland); Tadashi Matsumoto (CWC - Oulu, Finland)

An Energy-Efficient Bit Allocation Scheme in Wireless Sensor Networks
Xiaoxia Zhang (University of Waterloo, Canada); Liang-Liang Xie (University of Waterloo, Canada); Sherman Shen (University of Waterloo, Canada)
Dynamic Spectrum Management for Upstream Mixtures of Vectored & Non-vectored DSL
Aakanksha Chowdhery (Stanford University, USA); John Cioffi (Stanford University, USA)
Coordinated Packet Transmission in Random Wireless Networks
Sundaram Vanka (University of Notre Dame, USA); Martin Haenggi (University of Notre Dame, USA)

ONS06: Optical Communications I
Room: Tuttle North
OCDMA code design for BER and data rate differentiation in Beat Noise Corrupted Systems
Stéphanie Sahuguède (University of Limoges, France); Anne Julien-Vergonjanne (University of Limoges, France); Jean Pierre Cances (University of Limoges, France)
Channel Capacity of OFDM Systems with Timing Jitter
Yang Lei (Monash University, Australia); Kusha Panta (Monash University, Australia); Jean Armstrong (Monash University, Australia)
Routing and Spectrum Allocation in OFDM-based Optical Networks with Elastic Bandwidth Allocation
Kostas Christodoulopoulos (University of Patras, Greece); Ioannis Tomkos (AIT, Greece); Emmanouel Varvarigos (University of Patras, Greece)
OCDMA Code Utilization Increase: Capacity and Spectral Efficiency Enrichment
Massoud Karbassian (University of Arizona, USA); Franko Küppers (University of Arizona, USA)

ONS2P: Network Design & Operation
Room: Riverfront North Hall
Cloud Computing over Metropolitan Area WDM Networks: The Light-trails Approach
Ashwin A Gumaste (Indian Institute of Technology, Bombay/Massachusetts Institute of Technology, India); Tamal Dinesh Das (Indian Institute of Technology, Bombay, India); Prasad Gokhale (IIT Bombay, India)
Load Balancing for Holding-Time-Aware Dynamic Traffic Grooming
Juliana De Santi (State University of Campinas, Brazil); André C Drummond (State University of Campinas, Brazil); Nelson L. S. da Fonseca (State University of Campinas, Brazil); Admela Jukan (Technische Universität Carolo-Wilhelmina zu Braunschweig, Germany)
Performance Evaluation of Node Architectures with Color and Direction Constraints in WDM Networks
Konstantinos Manousakis (University of Patras, Greece); Panagiotis Kokkinos (University of Patras, Greece); Emmanouel Varvarigos (University of Patras, Greece)
A Hybrid Protection/Restoration Scheme for Two-Link Failure in WDM Mesh Networks
Lu Ruan (Iowa State University, USA); Taiming Feng (Iowa State University, USA)

Column Generation for Dimensioning Resilient Optical Grid Networks with Relocation
Brigitte Jaumard (Concordia University, Canada); Jens Buysse (Ghent University, Belgium); Ali Shaikh (Concordia University, Canada); Chris Develder (Ghent University - IBBT, Belgium); Marc De Leenheer (Ghent University, Belgium)

Routing and Scheduling in Distributed Advance Reservation Networks
Chongyang Xie (University of New Mexico, USA); Hamed M. K. Alazemi (Kuwait University, Kuwait); Nasir Ghani (University of New Mexico, USA)

SPC06: Cooperative Networks

Room: Tequesta
A dual-hop amplify-and-forward MIMO cooperative beamformer in distributed wireless sensor networks
Hassan Aghaei Baradaran (INRS (Institut national de la recherche scientifique), Canada); Keyvan Zarifi (University of Quebec, INRS-EMT, Canada); Sofiene Affes (INRS-EMT, Canada); Ali Ghrayeb (Concordia University, Canada)

A New Synchronization Scheme for OFDM-Based Cooperative Relay Systems
Gang Yang (University of Electronic Science and Technology of China, P.R. China); Chin-Liang Wang (National Tsing Hua University, Taiwan); Hung-Chin Wang (National Tsing Hua University, Taiwan); Shaoqian Li (University of Electronic Science and Technology of China, Taiwan)

Cooperative Spectrum Sensing and Locationing: A Sparse Bayesian Learning Approach
Din Hwa Huang (National Chiao Tung University, Taiwan); Sau-Hsuan Wu (National Chiao Tung University, Taiwan); Peng-Hua Wang (National Taipei University, Taiwan)

Iterative Approach to the Indirect Learning Architecture for Baseband Digital Predistortion
Jakob Harmon (University of Virginia, USA); Stephen G. Wilson (University of Virginia, USA)

SPC12: SIMO, MISO and MIMO Systems II

Room: IBIS
Statistical Analysis of MIMO Beamforming with Co-Channel MIMO Interferers Under Rayleigh Fading
Yongzhao Li (Xidian University, P.R. China); Len Cimini (University of Delaware, USA); Nageen Himayat (Intel Corporation, USA)

Joint Channel Estimation and Data Detection for MIMO-OFDM Two-Way Relay Networks
The Hanh Pham (National University of Singapore, Singapore); Ying-Chang Liang (Institute for Infocomm Research, Singapore); Hari Krishna Garg (National University of Singapore, Singapore); Nallanathan Arumugam (King’s College London, United Kingdom)
Getting Closer to MIMO Capacity with Non-Binary Codes and Spatial Multiplexing
Stephan F. Pfletschinger (Centre Tecnològic de Telecomunicacions de Catalunya, Spain); David Declercq (ETIS lab. ENSEA/Cergy University/CNRS UMR-8051, France)

Transmit Antenna Selection with Linear Precoding in MIMO Multiuser Systems
Pu-Hsuan Lin (National Chiao Tung University, Taiwan); Shang-Ho Tsai (National Chiao Tung University, Taiwan); Gene C.H. Chuang (Industrial Technology Research Institute, Taiwan)

WN06: Dynamic Spectrum Access II

Room: Peason II
Strategyproof Wireless Spectrum Auctions with Interference
   Ajay Gopinathan (University of Calgary, Canada); Zongpeng Li (University of Calgary, Canada)
Spectrum Trading in Cognitive Radio Network: An Agent-based Model under Demand Uncertainty
   Tian Chu (Shanghai Jiao Tong University, P.R. China); Peng Cheng (Shanghai Jiao Tong University, P.R. China); Lin Gao (Shanghai Jiao Tong University, P.R. China); Xinbing Wang (Shanghai Jiaotong University, P.R. China); HuiYu (Shanghai Jiao Tong University, P.R. China); Xiaoying Gan (Shanghai Jiao Tong University, P.R. China)
Backward-Compatible Dynamic Spectrum Leasing for 802.11-Based Wireless Networks
   Robert Murawski (Ohio State University, USA); Eylem Ekici (The Ohio State University, USA)
Reward and Risk for Opportunistic Spectrum Accessing in Cognitive Radio Networks
   Miao Pan (University of Florida, USA); Yang Song (University of Florida, USA); Pan Li (Mississippi State University, USA); Yuguang Fang (University of Florida, USA)

WN18: 802.11 Wireless Networks II

Room: Gautier
A Novel Power Saving Strategy for Greening IEEE 802.11 based Wireless Networks
   Bharathan Balaji (UCSD, USA); Bheemarjuna Reddy Tamma (University of California, San Diego, USA); Manoj Bs (University of California, San Diego, USA)
Tradeoff issues for CCH/SCH duty cycle for IEEE 802.11p single channel devices
   Jelena Misic (Ryerson University, Canada); Ghada Badawy (Ryerson University, Canada); Saeed Rashwand (University of Manitoba, Canada); Vojislav B. Misic (Ryerson University, Canada)
gama-TBSC: Time-Bound Signaling Control with gama-Percent Soft Guarantee in IEEE 802.11 Wireless LANs
   Ju-Lin Shih (National Chiao Tung University, Taiwan); Maria C. Yuang (National Chiao Tung University, Taiwan); Shih-Hsuan Lin (National Chiao Tung University, Taiwan)
802.11 User Anonymization
   Dingbang Xu (Governors State University, USA); Yu Wang (Univeristy of North Carolina at Charlotte, USA); Xinghua Shi (Harvard University, USA); Xiaohang Yin (Governors State University, USA)

**WN30: Delay Tolerant Networks II**

Room: Merrick I
Cost-Efficient Topology Design Problem in Time-Evolving Delay-Tolerant Networks
   Minsu Huang (University of North Carolina at Charlotte, USA); Siyuan Chen (University of North Carolina at Charlotte, USA); Ying Zhu (University of North Carolina at Charlotte, USA); Yu Wang (Univeristy of North Carolina at Charlotte, USA)
Latency Analysis for Thrown Box Based Message Dissemination
   Bo Gu (University of Alabama, USA); Xiaoyan Hong (University of Alabama, USA); Pu Wang (University of Alabama, USA); Richard Borie (University of Alabama, USA)
Coalition Formation Games for Improving Data Delivery in Delay Tolerant Networks
   Dusit Niyato (Nanyang Technological University, Singapore); Ping Wang (Nanyang Technological University, Singapore); Walid Saad (University of Oslo, UniK, Norway); Are Hjørungnes (University of Oslo, Norway)
Multicasting in Delay Tolerant Networks: Delegation Forwarding
   Yunsheng Wang (Temple University, USA); Xiaoguang Li (Temple University, USA); Jie Wu (Temple University, USA)

**WN6P: Network Performance Optimization II (poster)**

Room: Riverfront North Hall
Improving Channel Utilization by Exploiting Partially Overlapping Channels in Wireless Ad Hoc Networks
   Kuei-Ping Shih (Tamkang University, Taiwan); Chau-Chieh Chang (Tamkang University, Taiwan); Der-Jiunn Deng (National Changhua University of Education, Taiwan); Hsiao-Hwa Chen (National Cheng Kung University, Taiwan)
A Cross-Layer Analytical Model of End-to-End Delay Performance for Wireless Multihop Environments
   Yu Chen (University College London, United Kingdom); Yang Yang (Shanghai Research Center for Wireless Communications, P.R. China); Izzat Darwazeh (University College London, United Kingdom)
Cross-layer optimization of wireless networks with extended transmission rights
   Francois Luus (University of Pretoria, South Africa); Bodhaswar TJ Maharaj (University of Pretoria, South Africa, South Africa)
Optimizing the WiMedia Frame Structure for Home Networking Applications
   Raghuram S Sudhaakar (University at Buffalo, USA); Vel Pratheesh Sankar (SUNY Buffalo, USA); Chunming Qiao (State University of New York at Buffalo, USA)
A Cross-layer Optimization for a LP-based Multi-Reader Coordination in RFID Systems
Jin-Chul Choi (Electrical and Computer Engineering, Ajou University, Korea); Chae-Woo Lee (Ajou University, Korea)
RF Concurrency vs. Performance Study for Integrated WiFi radio
Xue Yang (Intel Corporation, USA); Dmitry Akhmetov (Intel Corporation, USA); York Liu (Intel Corporation, USA)

Wednesday, 8 December 2010, 11:20-12:30   Room: Pearson I
CIS09 Anonymity
Session Chair: TBD

Toward Improving Path Selection in Tor
Fallon Chen, Joseph Pasquale (University of California, San Diego, US)

Anonymous Certification Services
Dijiang Huang (Arizona State University, US)

Selective Cross Correlation in Passive Timing Analysis against Anonymity Systems
Titus Abraham, Matthew Wright (University of Texas at Arlington, US)

Statistical Framework for Source Anonymity in Sensor Networks
Basel Alomair, Andrew Clark (University of Washington, US), Jorge Cuellar (Siemens, DE), Radha Poovendran (University of Washington, US)

Wednesday, 8 December 2010   11:20-12:30   Room: Merrick II
CSSMA06: Multimedia Applications
Session Chair: TBD ()

A New Hybrid Network Traffic Prediction Method
Lin Xiang (Huazhong University of Science and Technology, CN)
Xiaohu Ge (Huazhong University of Science and Technology, CN)
Chuang Liu (Huazhong University of Science and Technology, CN)
Lei Shu (Osaka University, Japan, JP)
Chengxiang Wang (Heriot-Watt University, UK)

A Channel Switching Scheme for IPTV Systems
Daniel A. G. Manzato (State University of Campinas, BR)
Nelson L. S. da Fonseca (State University of Campinas, BR)

QoS Bandwidth Optimization in an Inductive Routing System for Multimedia Real-Time Applications
Abdelhamid Mellouk (UPEC, University Paris-Est Creteil Val de Marne, FR)
Said Hoceini (UPEC, University Paris-Est Creteil Val de Marne, FR)

Multiple Description Coding with Feedback Based Network Compression
Jesper H Sørensen (Aalborg University, DK)
Jan Østergaard (Aalborg University, DK)
A Trading System for Fairly Scheduling Fixed-Sized Delay Tolerant Jobs at a Shared Link
Jorge Londono (Boston University, US)
Azer Bestavros (Boston University, US)
Nikolaos Laoutaris (Telefonica Research, ES)

Broadcast Traffic Queueing in OFDMA Systems for Spectrum Efficiency and Improved QoS Provisioning
Maduranga Liyanage (Keio University, JP)
Iwao Sasase (Keio University, JP)

Distributed Interference Management and Scheduling in LTE-A Femto Networks
Ritesh Madan (QUALCOMM-Flarion Technologies, US)
Ashwin Sampath (Qualcomm, US)
Aamod Khandekar (Qualcomm, US)
Mohammad Jaber Borran (Qualcomm, US)
Naga Bhushan (QUALCOMM, US)

Performance Bounds of Opportunistic Scheduling in Wireless Networks
Yanhui Geng (The University of Hong Kong, HK)
Albert Lam (The University of Hong Kong, HK)
Victor Li (University of Hong Kong, CN)

Admission Control and Channel Allocation for Supporting Real-time Applications in Cognitive Radio Networks
Feng Wang (Peking University, CN), Junhua Zhu (Huawei Technologies, Co., Ltd., CN),
Jianwei Huang (The Chinese University of Hong Kong, HK), Yuping Zhao (Peking University, CN)

Admission Control and Packet Scheduling in a Cognitive Radio Network with Spectrum Underlay
Bin Wang (McMaster University, CA), Dongmei Zhao (McMaster University, CA), Jun Cai (University of Manitoba, CA)
Opportunistic Spectrum Sharing based on Exploiting ARQ Retransmission in Cognitive Radio Networks
James Li (University of New South Wales, AU), Wei Zhang (University of New South Wales, AU), Aria Nosratinia (University of Texas, Dallas, US), Jinhong Yuan (University of New South Wales, AU)

Phase Transition Diagram for Underlay Heterogeneous Cognitive Radio Networks
Weng Chon Ao (National Taiwan University, TW), Shin-Ming Cheng (National Taiwan University, TW), Kwang-Cheng Chen (National Taiwan University, TW)

Wednesday, 8 December 2010  11:20-12:30 Room: Flamingo
NGN06: Spectrum Allocation
Session Chair: TBA

A New Bandwidth Allocation Algorithm for EPON-WiMAX Hybrid Access Networks
Abdou R. Ahmad (The University of Western Ontario, CA)
Abdallah Shami (The University of Western Ontario, CA)

Resource Allocation and Performance Study for LTE Networks Integrated with Femtocells
Latha Kant (Telcordia Technologies, US)
Kaustubh Sinkar (Telcordia Technologies, US)
Kenneth Kerpez (Telcordia Technologies, US)
Tian Lan (Princeton University, US)

Energy Efficient Spectrum Allocation for Green Radio in Two-tier Cellular Networks
Wenchi Cheng (Xidian University, CN)
Hailin Zhang (Xidian University, CN)
Liqiang Zhao (Xidian University, CN)

Joint Rate Control and Spectrum Allocation under Packet Collision Constraint in Cognitive Radio Networks
Nguyen H. Tran (Kyung Hee University, KR); Choong Seon Hong (Deparment of Computer Engineering, Kyung Hee University, KR)

Wednesday, 8 December 2010  11:20-12:30 Room: Brickell North
WC06: MIMO VI
Session Chair: TBA

Fractional Reuse Partitioning for MIMO Networks
Andreas Dotzler, Wolfgang Utschick (Technische Universität München, German), Guido Dietl (DOCOMO Euro-Labs, German)

A Tabu Search Scheduling Algorithm For MIMO CDMA Systems
Elmahdi Driouch, Wessam Ajib (Université du Québec à Montréal, Canada), Mohamed Gaha (École Polytechnique de Montréal, Canada)
Field Trial Results on Different Uplink Coordinated Multi-Point (CoMP) Concepts in Cellular Systems
Patrick Marsch, Michael Grieger, Gerhard Fettweis (Technische Universität Dresden, German)

Distribution of the Demmel Condition Number of Complex Wishart Matrices
Caijun Zhong (Queen's University Belfast, United Kingdom), Matthew McKay (Hong Kong University of Science and Technology, Hong Kong), Tharmalingam Ratnarajah (Queens University of Belfast, United Kingdom), Kai Kit Wong (University College London, United Kingdom)

Wednesday, 8 December 2010 11:20-12:30 Room: Brickell Center
WC18: Game Theory II
Session Chair: TBA

Performance Comparison of Energy-Efficient Power Control for CDMA Code Acquisition and Detection
Giacomo Bacci, Marco Luise (University of Pisa, Italy)

Cross-Polarization Discrimination in Vehicle-to-vehicle channels: Geometry-based Statistical Modeling
Seok-Chul Kwon, Gordon Stuber (Georgia Institute of Technology, USA)

Non-NCO Periodical-Pilot-Assisted Tracking Method for Practical High-Rate DS-UWB Systems
Zhenyu Xiao, Jiaqi Zhang, Depeng Jin, Ning Ge, Lieguang Zeng (Tsinghua University, China)

Towards Efficient, Stable, and Fair Random Access Networks: A Conjectural Equilibrium Approach
Yi Su, Mihaela van der Schaar (University of California, Los Angeles (UCLA), USA)

Wednesday, 8 December 2010 11:20-12:30 Room: Brickell South
WC30: Network Coding I
Session Chair: TBA

Relay selection with physical-layer network coding
MinChul Ju, Il-Min Kim (Queen's University, Canada)

Secret Key Agreement Based on Radio Propagation Characteristics in Two-Way Relaying Systems
Takayuki Shimizu, Hisato Iwai, Hideichi Sasaoka (Doshisha University, Japan), Arogyaswami Paulraj (Stanford University, USA)

Detection of Misbehaving Relays in Network Coded Multiple Access Relay Networks
Sang Wu Kim (Iowa State University, USA)

Rotating Decode-and-Forward for Two Pairs of Two-Way Communications
Yiwei Pu, Cen Lin, Meixia Tao (Shanghai Jiao Tong University, China)

Wednesday, 8 December 2010  11:20-12:30 Room: Orchard D

**WC42: Optimization II**
Session Chair: TBA

Multiple Description Coding-Based Optimal Resource Allocation for OFDMA Multicast Service
Yao Ma (Wright State University, USA), Khaled Letaief (Hong Kong University of Science & Technology, Hong Kong), Zhengdao Wang (Iowa State University, USA), Ross Murch (HKUST, Hong Kong), Zhiqiang Wu (Wright State University, USA)

Rank Constrained Schur-Convex Optimization with Multiple Trace/Log-Det Constraints
Hao Yu, Vincent Lau (Hong Kong University of Science and Technology, Hong Kong)

Passively Controllable Smart Antennas
Javad Lavaei, Aydin Babakhani, Ali Hajimiri, John Doyle (California Institute of Technology, USA)

Throughput-Efficient Rateless Coding with Packet Length Optimization for Practical Wireless Communication Systems
Xijun Wang, Wei Chen, Zhigang Cao (Tsinghua University, China)

Wednesday, 8 December 2010  11:20-12:30 Room: Orchard C

**WC54: Fading Channels II**
Session Chair: TBA

Approximation of Log-Likelihood Ratio for Wireless Channels Based on Taylor Series
Reza Asvadi (K. N. Toosi University of Technology, Iran), Amir Banihashemi (Carleton University, Ottawa, Canada), Mahmoud Ahmadian (K.N. Toosi University of Technology, Iran)

Secrecy Capacity With Leakage Constraints in Fading Channels
Chen Zhi, Pingyi Fan (Tsinghua University, China), Dapeng Oliver Wu (University of Florida, USA), Khaled Letaief (Hong Kong University of Science & Technology, Hong Kong)

Second-Order Properties for Wireless Cooperative Systems with Rayleigh Fading
Yuanqian Luo, Ruonan Zhang, Lin Cai (University of Victoria, Canada)

Novel Switching Schemes for Dual S+N Selection Diversity Combining
Norman Beaulieu, Ramin Babaee (University of Alberta, Canada)
Cooperative Relaying using OFDM in the Presence of Frequency Offsets  
Satya Prakash Ponnaluri, Babak Azimi-Sadjadi (Intelligent Automation Inc, USA),  
Daniel McCathy, Paul Oleski (AFRL, USA)

Filter-And-Forward Distributed Beamforming For Two-Way Relay Networks With  
Frequency Selective Channels  
Haihua Chen, Alex Gershman (Darmstadt University of Technology, German), Shahram  
Shahbazpanahi (University of Ontario Institute of Technology, Canada)

Transmission Schemes for Two User Linear Multi-Access Relay Networks  
Liangbin Li (University of California, Irvine, USA), Yindi Jing (University of Alberta,  
Canada), Hamid Jafarkhani (University of California, Irvine, USA)

Outage Priority Based Relay Fairness in Opportunistic Cooperation  
Yubo Li, Qinye Yin, Junsong Wang, Bin Li (Xi'an Jiaotong University, China)

Uplink Cell Selection for Cooperative Multi-Cell Networks with Hybrid ARQ  
Davide Zennaro, Stefano Tomasin, Lorenzo Vangelista (University of Padova, Italy)

Cooperative Multi-Antenna Multicasting for Wireless Networks  
Hua Zhang, Xiaohu You (Southeast University, China), Gang Wu, Haifeng Wang  
(Nokia, Finland)
Wednesday, December 8

16:00 - 17:10

AHSN07: Routing VII

Room: Tuttle South
Improving the Energy Balance of Field-based Routing in Wireless Sensor Networks
Goce Trajcevski (Northwestern University, USA); Oliviu Constantin Ghica (Northwestern University, USA); Marco Antonio Zuniga (National University of Ireland, Galway, Ireland); Rene Schubotz (Digital Enterprise Research Institute, National University of Ireland, Galway, Ireland); Peter Scheuermann (Northwestern University, USA); Manfred Hauswirth (DERI Galway, Ireland)

Cognitive Approaches to Routing in Wireless Sensor Networks
Amr El Mougy (PhD Candidate, Queen's University, Canada); Zouheir El-Jabi (MASc Candidate, Queen's University, Canada); Mohamed Ibnkahla (Queen's University, Canada); Elyes Bdira (Queen's University, Kingston ON Canada, Canada)

BusySiMOn - a New Protocol for IEEE 802.11 EDCA-Based Ad-Hoc Networks with Hidden Nodes
Katarzyna Kosek-Szott (AGH University of Science and Technology, Poland); Marek Natkaniec (AGH University of Science and Technology, Poland); Andrzej R. Pach (AGH University of Science and Technology, Poland)

A Novel Reliable Transmission Protocol for Urgent Information in Wireless Sensor Networks
Lulu Liang (Beijing Jiaotong University, P.R. China); Deyun Gao (Beijing Jiaotong University, P.R. China); Zhang Hongke (Beijing Jiaotong University, P.R. China); Victor CM Leung (The University of British Columbia, Canada)

AHSN19: Performance Analysis and Modelling III

Room: Tuttle Center
Performance Analysis of PCF based WLANs with Imperfect Channel and Failure Retries
Md. Atiur Rahman Siddique (Monash University, Australia, Australia); Joarder Kamruzzaman (Monash University, Australia, Australia)

Mahmoud Elsaadany (Cairo University, Egypt); Tamer Khattab (Qatar University, Qatar); Mohamed M. Abdallah (Texas A&M University at Qatar, Qatar); Mazen Omar Hasna (Qatar University, Qatar); Mohamed Khairy (Assoc Prof, cairo Univ, Egypt)

Understanding periodicity and regularity of nodal encounters in mobile networks: A spectral analysis
Sungwook Moon (University of Florida, USA); Ahmed Helmy (University of Florida, USA)
Information Epidemics in Complex Networks with Opportunistic Links and Dynamic Topology
Pin-Yu Chen (National Taiwan University, Taiwan); Kwang-Cheng Chen (National Taiwan University, Taiwan)

AHSN31: MAC I

Room: Jasmine
QoS-Centric Collision Window Shaping for CSMA-CA MAC Protocol
Miraz Mamun (Monash University, Australia); Gour Chandra Karmakar (Monash University, Australia); Joarder Kamruzzaman (Monash University, Australia, Australia)

An Experimental Comparison of Burst Packet Transmission Schemes in IEEE 802.11-based Wireless Mesh Networks
Peter Dely (Karlstad University, Sweden); Andreas J. Kassler (Karlstad University, Sweden); Nico Bayer (Deutsche Telekom Laboratories, Germany); Dmitry Sivchenko (Deutsche Telekom Laboratories, Germany)

An Enhanced Reservation-based Medium Access Control with Scheduling and Admission Control for Voice over Wireless Mesh Networks
Racha Ben Ali (École Polytechnique de Montréal, Canada); Abdel Hafid (University of Montreal, Canada); Jihene Rezgui (University of Montreal, Canada)

Contention-limited Access Strategies in IEEE 802.15.4 Beacon-Enabled Networks
Jorge M. Finochietto (Universidad Nacional de Córdoba, Argentina); Ignacio Isaía Brasca (Universidad Nacional de Córdoba, Argentina)

AHSN7P: Topics in Ah Hoc, Sensor, and Mesh Networks VII (Poster)

Room: Riverfront North Hall
Collision-load Balancing Topology Control with Rate Adaptation for Wireless Mesh Networks
Xiaohua Jia (City University of Hong Kong, Hong Kong); Kunxiao Zhou (City University of Hong Kong, Hong Kong)

Load-Aware Channel Assignment Using Partially Overlapping Channels for Wireless Mesh Networks-
Cheng Li (Memorial University of Newfoundland, Canada); Ramachandran Venkatesan (Memorial University of Newfoundland, Canada); Yuting Liu (Memorial University, Canada)

An Indoor Positioning Algorithm With Kernel Direct Discriminant Analysis
Yubin Xu (Harbin Institute of Technology, P.R. China); Zhian Deng (Harbin Institute of Technology, P.R. China); Weixiao Meng (Harbin Institute of Technology, P.R. China)

Analysis of k-Hop Connectivity Probability in 2-D Wireless Networks with Infrastructure Support
Seh Chun Ng (University of Sydney, Australia); Guoqiang Mao (The University of Sydney, Australia)
Enabling network-layer security on IPv6 Wireless Sensor Networks
Jorge Granjal (University of Coimbra, Portugal); Edmundo Monteiro (University of Coimbra, Portugal); Jorge Silva (University of Coimbra, Portugal)

Optimizing upload time of data from mobile devices
Ying Zhu (University of Ontario Institute of Technology, Canada)

CT07: MIMO I

Room: Hibiscus B
On Training and Training Voids for Receive Antenna Subset Selection in Time-Varying Channels
Vinod Kristem (Indian Institute of Science, India); Neelesh B. Mehta (Indian Institute of Science, India); Andreas Molisch (University of Southern California, USA)

On the effect of feedback delay on limited-rate beamforming systems
Yiyue Wu (Princeton University, USA); Andreas Achtzehn (RWTH Aachen University, Germany); Marina Petrova (RWTH Aachen University, Germany); Petri Mähönen (RWTH Aachen University, Germany); Robert Calderbank (Princeton University, USA)

Benefits of Transmit Antenna Selection in Ad Hoc Networks
Yuaping Wu (HKUST, Hong Kong); Raymond Hall Yip Louie (University of Sydney, Australia); Matthew R McKay (Hong Kong University of Science and Technology, Hong Kong); Iain B. Collings (CSIRO, Australia)

On the Degrees of Freedom Regions of Two-User MIMO Z and Full Interference Channels with Reconfigurable Antennas
Lei Ke (Iowa State University, USA); Zhengdao Wang (Iowa State University, USA)

CT12: Wireless Networks III

Room: Hibiscus A
Throughput and Energy Efficiency of Opportunistic Routing with type-I HARQ in Linear Multihop Networks
Davide Chiarotto (University of Padova, Italy); Osvaldo Simeone (New Jersey Institute of Technology, USA); Michele Zorzi (Università degli Studi di Padova, Italy)

On optimizing low SNR wireless networks using network coding
Mohit Thakur (Technische Universität München, Germany); Muriel Medard (MIT, USA)

Optimal Spatial Reuse in Poisson Multi-hop Networks
Kostas Stamatiou (University of Notre Dame, USA); Martin Haenggi (University of Notre Dame, USA)

On Optimal Power Allocation for a Class of Interference Networks
Nasreen Badruddin (University of Melbourne, Australia); Jamie Evans (University of Melbourne, Australia); Stephen Hanly (National University of Singapore, Singapore)
CT3P: Detection Techniques

Room: Riverfront North Hall
Active Subchannel Detection for Non-Contiguous OFDM-Based Cognitive Radio Systems
  Jie Ding (Huazhong University of Science and Technology, P.R. China); Daiming Qu (Huazhong University of Science and Technology, Wuhan, Hubei, China, P.R. China); Xiaojun Sun (Huazhong University of Science and Technology, P.R. China); Tao Jiang (Huazhong University of Science and Technology, P.R. China); Lu Liu (Huazhong University of Science and Technology, P.R. China)

Lattice Sequential Decoding: Achievable Rates and Diversity-Multiplexing Tradeoff
  Walid Abedioneid (University of Waterloo, Canada); Mohamed Oussama Damen (University of Waterloo, Canada)

Optimally Efficient Max-log APP Demodulation in MIMO Systems
  Narayan Prasad (NEC Labs America, Princeton, USA); Khalid Kalbat (University of Columbia, USA); Xiaodong Wang (Columbia University, USA)

A Message Passing Approach to Pilot-assisted Multiuser Detection in MC-CDMA Systems
  Emre Aktas (Hacettepe University, Turkey)

DMT of Interference Channels with Full-Duplex Source Cooperation and Imperfect CSIT
  Qian Li (Nanyang Technological University, Singapore); Kwok Hung Li (Nanyang Technological University, Singapore); Kah Chan Teh (Nanyang Technological University, Singapore)

ONS07: Optical Switching II

Room: Tuttle North
Programmable Multi-Granular Optical Router: Modular Architecture and Testing
  Raul Cafini (University of Bologna, Italy); Walter Cerroni (Universita' di Bologna, Italy); Carla Raffaelli (University of Bologna, Italy); Michele Savi (University of Bologna, Italy)

Sharing Simple Wavelength Converters in Optical Packet Switching: Performance and Power Consumption Evaluation
  Carla Raffaelli (University of Bologna, Italy); Michele Savi (University of Bologna, Italy)

Optical Packet Switch based on Dynamic Pump Wavelength Selection
  Nattapon Kitsuwan (The University of Electro-communications, Japan); Eiji Oki (The University of Electro-Communications, Japan)

Modelling and Performance Evaluation of a Translucent OBS Network Architecture
  Oscar Pedrola (Universitat Politècnica de Catalunya, Spain); Davide Careglio (Universitat Politècnica de Catalunya, Spain); Mirosław Klinkowski (National Institute of Telecommunications, Poland); Josep Solé-Pareta (Universitat Politècnica de Catalunya (UPC), Spain)

ONS3P: Optical Communications II
Room: Riverfront North Hall
A Novel Multilevel Coded Modulation Scheme for Fiber Optical Channel with Nonlinear Phase Noise
Lotfollah Beygi (Chalmers University of Technology, Sweden); Erik Agrell (Chalmers, Sweden); Pontus Johanniasson (Chalmers University of Technology, Sweden); Magnus Karlsson (Chalmers University of Technology, Sweden)
Phase Noise Sensitivity and Compensation Techniques in Long-Haul Coherent Optical Links
Giulio Colavolpe (University of Parma, Italy); Tommaso Foggi (CNIT Research Unit, Italy); Enrico Forestieri (Scuola Superiore S. Anna, Pisa, Italy); Marco Secondini (Scuola Superiore Sant'Anna, Italy)
Optical Wireless Communications with Adaptive Subcarrier PSK Intensity Modulation
Nestor Chatzidiamantis (Aristotle University of Thessaloniki, Greece); Athanasios S. Lioumpas (Aristotle University of Thessaloniki, Greece); George K. Karagiannidis (Aristotle University of Thessaloniki, Greece); Shlomi Arnon (Ben-Gurion University of the Negev, Israel)
On the Clipping Noise in an ACO-OFDM Optical Wireless Communication System
Svilen Dimitrov (The University of Edinburgh, United Kingdom); Harald Haas (The University of Edinburgh, United Kingdom)

SPC07: Detection and Decoding
Room: Tequesta
Fast Maximum-Likelihood Decoding of 4 x 4 Full-Diversity Quasi-Orthogonal STBCs with QAM signals
Sandipan Kundu (SUNY at Buffalo, USA); Weifeng Su (State Univ. of New York at Buffalo, USA); Dimitris A. Pados (State University of New York at Buffalo, USA); Michael Medley (SUNY-IT, USA)
List sphere decoding with a probabilistic radius tightening
Jaeseok Lee (Korea University, Korea); Byonghyo Shim (Korea University, Korea); Insung Kang (Qualcomm Inc., USA)
Robust fixed complexity sphere decoder
Yuehua Ding (École Polytechnique de l’Université de Nantes, France); Yide Wang (IREENA, Polytech'Nantes, university of Nantes, France); Jean Francois Diouris (University of Nantes, France)
An Improvement on the Soft Reliability-Based Iterative Majority-Logic Decoding Algorithm for LDPC Codes
Telex Magloire N Ngatched (University of Manitoba, Canada); Attahiru S. Alfa (University of Manitoba, Canada); Jun Cai (University of Manitoba, Canada)

SPC13: SIMO, MISO and MIMO Systems III
Room: IBIS
Linear Block Diagonalization Precoding Using Switched Preprocessing Techniques for Multiuser MIMO systems
Yunlong Cai (University of York, United Kingdom); Rodrigo C. de Lamare (University of York, United Kingdom); Didier Le Ruyet (CNAM, France)

Space-Time Shift Keying: A Unified MIMO Architecture
Shinya Sugiura (University of Southampton, United Kingdom); Sheng Chen (University of Southampton, United Kingdom); Lajos Hanzo (University of Southampton, United Kingdom)

Generalized singular value decomposition for Coordinated Beamforming in MIMO systems
Damith Senaratne (University of Alberta, Canada); Chintha Tellambura (University of Alberta, Canada)

Design of Amplify and Forward MIMO Relay Networks with QoS Constraint
Jafar Mohammadi (Jacobs University of Bremen, Germany); Feifei Gao (Jacobs University, Bremen, Germany); Yue Rong (Curtin University, Australia)

WN07: Handoff and Mobility Management II

Room: Pearson II
Performance Analysis of Fast Handover for Proxy Mobile IPv6
SuKyoung Lee (Yonsei University, Korea)

PMIPv6-HC: Handover Mechanism for Reducing Handover Delay and Packet Loss in NGWN
Linoh A. Magagula (University of Cape Town, South Africa); H Anthony Chan (Huawei Technologies, USA); Olabisi Emmanuel Falowo (University of Cape Town, South Africa)

Performance Comparison between MIPv6 and SEMO6
Md Sazzadur Rahman (University of Oklahoma, USA); Mohammed Atiquzzaman (University of Oklahoma, USA); Wesley M Eddy (MTI Systems, USA); William D. Ivancic (NASA Glenn Research Center, USA)

Performance Evaluation of Network Mobility Handover over Future Aeronautical Data Links
Serkan Ayaz (German Aerospace Center (DLR), Germany); Felix Hoffmann (German Aerospace Center (DLR), Germany); Christoph Sommer (Carnegie Mellon University, USA); Reinhard German (Universitaet Erlangen-Nuernberg, Germany); Falko Dressler (University of Erlangen, Germany)

WN19: TCP and Congestion Control II

Room: Gautier
Counteracting wireless congestion in data distribution with adaptive batching techniques
Mario Fanelli (University of Bologna, Italy); Luca Foschini (University of Bologna, Italy); Antonio Corradi (University of Bologna, Italy); Azzedine Boukerche (Univ. of Ottawa, Canada)

Hybrid Window And Rate Based Congestion Control For Delay Sensitive Applications
Sanjeev Mehrotra (Microsoft Research, USA); Jin Li (Microsoft Research, USA); Sudipta Sengupta (Microsoft Research, USA); Manish Jain (Akamai, USA); Sayandeep Sen (University of Wisconsin Madison, USA)
Sliding Mode Based Joint Congestion Control and Scheduling in Multi-hop Ad Hoc Networks with Multi-class Services
Zongrui Ding (University of Florida, USA); Dapeng Oliver Wu (University of Florida, USA)

TCP Convergence Layer (TCPCL)-based DTN over Cislunar Channels in Presence of Long Link Disruption
Ruhai Wang (Lamar University, USA); Xuan Wu (Lamar University, USA); Zhou Liu Lei (Soochow University, P.R. China); Jia Hou (Soochow University, P.R. China)

WN31: Vehicular Networks II

Room: Merrick I
A QoS-aware Dynamic Bandwidth Allocation Algorithm for Base Stations in IEEE 802.16j-based Vehicular Networks
Ridong Fei (University of Essex, United Kingdom); Kun Yang (University of Essex, United Kingdom); Shumao Ou (Oxford Brookes University, United Kingdom)

Mobility-Aware Call Admission Control Algorithm in Vehicular WiFi Networks
Younghyun Kim (Korea University, Korea); Sangheon Pack (Korea University, Korea); Wonjun Lee (Korea University, Korea, Korea)

An Efficient Hybrid HIP-PMIPv6 Scheme for Seamless Internet Access in Urban Vehicular Scenarios
Sandra Cespedes U. (University of Waterloo, Canada); Sherman Shen (University of Waterloo, Canada)

A Novel Network Mobility Management Scheme for Vehicular Networks
Azzedine Boukerche (Univ. of Ottawa, Canada); Zhenxia Zhang (University of Ottawa, Canada)

WN7P: Topics in Wireless Networking III (poster)

Room: Riverfront North Hall
Performance Analysis of Channel Contention in Wireless Ad Hoc Net-works: A Stochastic Game Nets Approach
Xiong Wan (University of Science and Technologh Beijing, P.R. China); Chuang Lin (Tsinghua University, P.R. China); Xin Chen (associate Prof., P.R. China); Kun Meng (Ph.D student, P.R. China); Yuanzhuo Wang (Chinese Academy of Sciences, P.R. China)

Estimating the Number of Nodes in a Mobile Wireless Network
Shiping Chen (University of Shanghai for Science and Technology, P.R. China)

Robust and Secure Secret Sharing in Wireless Networks with Convolutional Network Coding
Joyce Liang (University of Southern California, USA); C.-C. Jay Kuo (University of Southern California, USA)

The Performance Analysis of Doppler Diversity Based on Sectorised Antenna in High-Speed Railway Communication
Wednesday, 8 December 2010, 16:00-17:10   Room: Pearson I

**CIS10 Intrusion Detection**

Session Chair: <TBD>

YACA: Yet Another Cluster-based Architecture for Network Intrusion Prevention
Fei He, Yaxuan Qi, Yibo Xue, Jun Li (Tsinghua University, CN)

Independent Parallel Compact Finite Automatons for Accelerating Multi-String Matching
Yi Tang, Junchen Jiang (Tsinghua University, CN), Xiaofei Wang (Dublin City University, CN), Yang Xu (Polytechnic Institute of New York University, US), Bin Liu (Tsinghua University, CN)

Towards High-performance Pattern Matching on Multi-core Network Platforms
Yaxuan Qi, Zongwei Zhou (Tsinghua University, CN), Yiyao Wu (Carnegie Mellon University, US), Yibo Xue, Jun Li (Tsinghua University, CN)

A Real Implementation of Deep Packet Inspection in 3G Network
Feiyi Huang, Liwen He (Huawei Symantec Co. Ltd, CN), Xiaoming Lu (GuangDong Research Institute of China Telecom Co. Ltd, CN), Weihua Cao, Xusheng Huang (GuangDong Research Institute of China Telecom Co. Ltd, CN)

Wednesday, 8 December 2010   16:00-17:10   Room: Merrick II

**CSSMA07: Distributed systems and applications**

Session Chair: TBD

* A Methodology Used to Optimize Probe Selection for Fault Localization
  Yan Qiao (Beijing University of Posts and Telecommunications, CN)
  Lu Cheng (Beijing University of Posts and Telecommunications, CN)
  Qiu Xue-song (Beijing University of Posts and Telecommunications, CN)
  Luoming Meng (Beijing Univ. of Posts and Telecommunications, CN)

SLA-Based Resource Co-Allocation in Multi-Cluster Grid
Wei Wang (Southeast University, CN)
Luo Junzhou (Southeast University, TW)
Aibo Song (Southeast University, CN)
Fang Dong (Southeast University, CN)

Rendering Adaptation to Address Communication and Computation Constraints in Cloud Mobile Gaming
Shaoyuan Wang (University of California, San Diego, US)
Sujit Dey (University of California, San Diego, US)

MMOPRG Traffic Modeling and Analysis over WiFi and WiMax
Wei Cai (Seoul National University, KR)
Xiaofei Wang (Seoul national university, KR)
Min Chen (Seoul National University, KR)
Yan Zhang (Simula Research Laboratory and University of Oslo, NO)

Wednesday, 8 December 2010  16:00-17:10   Room: Orchard AB

CQRM07: Traffic Measurement I
Session Chair: TBA

A2C: Anti-Attack Counters For Traffic Measurement
Keqiang He (Tsinghua University, CN)
Chengchen Hu (Tsinghua University, Beijing, P. R. China, CN)
Junchen Jiang (Tsinghua University, CN)
Yachao Zhou (Dublin City University, IE)
Bin Liu (Tsinghua University, CN)

Efficient Data Collection with Sampling in WSNs: Making Use of Matrix Completion Techniques
Jie Cheng (Huazhong University of Science and Technology, CN)
Hongbo Jiang (Huazhong University of Science and Technology, CN)
Xiaoyian Ma (Huazhong University of Science and Technology, CN)
Lanchao Liu (Huazhong University of Science and Technology, CN)
Lijun Qian (Prairie View A&M University, US)
Chen Tian (Huazhong University of Science and Technology, CN)
Wenyu Liu (Huazhong University. of Sci. & Tech. Wuhan 430074, China, CN)

Know Your Enemy, Know Yourself: Block-Level Network Behavior Profiling and Tracking
Esam Sharafuddin (University of Minnesota, US)
Nan Jiang (University of Minnesota, US)
Yu Jin (University of Minnesota, US)
Zhi-Li Zhang (University of Minnesota, US)

Long-term adaptation and distributed detection of local network changes
Rebecca Steinert (Swedish Institute of Computer Science, SE)
Daniel Gillblad (SICS, SE)
Neighbor-Cooperative Measurement of Network Path Quality
Rocky Chang (The Hong Kong Polytechnic University, HK)
Waiting Fok (The Hong Kong Polytechnic University, HK)
Weichao Li (The Hong Kong Polytechnic University, HK)
Edmond W. W. Chan (The Hong Kong Polytechnic University, HK)
Xiapu Luo (Georgia Institute of Technology, US)

Ternary-search-based Scheme to Measure Link Available-bandwidth in Wired Networks
Khondaker Salehin (New Jersey Institute of Technology, US)
Roberto Rojas-Cessa (New Jersey Institute of Technology, US)

TSprobe: a Two-Step Probe Method for End-to-End Available Bandwidth Estimation
Wang Huiming (Tsinghua University, CN)
Zhiliang Wang (Tsinghua University, CN)
Yin Xia (Tsinghua University, CN)

Error Modeling in Network Tomography by Sparse Code Shrinkage (SCS) Method
Muhammad Raza (Dalhousie University, CA)
Bill Robertson (Dalhousie University, CA)
William Phillips (Dalhousie University, CA)
Jacek Ilow (Dalhousie University, CA)

Software Radio-Based Decentralized Dynamic Spectrum Access Networks: A Prototype Design and Experimental Results
Feng Ge (Virginia Tech, US), Aravind Radhakrishnan (Virginia Tech, US), Mustafa El-Nainay (Virginia Tech, US), Qin Qin Chen (Virginia Polytechnic Institute and State University, US)

Backhauling in TV White Spaces
Cyrus Gerami (Rutgers University, US), Narayan Mandayam (WINLAB, Rutgers University, US), Larry Greenstein (Rutgers University, US)

Performance Analysis of Communications & Radar Coexistence in a Covert UWB OSA System
Shrawan Surender (The Pennsylvania State University, US), Ram Narayan (The Pennsylvania State University, US), Chita Das (The Pennsylvania State University, US)
Common Hopping based Proactive Spectrum Handoff in Cognitive Radio Ad Hoc Networks
Yi Song (University of North Carolina at Charlotte, US), Linda Jiang Xie (University of North Carolina at Charlotte, US)

Wednesday, 8 December 2010   16:00-17:10 Room: Flamingo
NGN07: Multicasting
Session Chair: TBA

A Fast-Join Mechanism for Inter-domain Multicasting
Xiaohua Tian (Illinois Institute of Technology, US)
Yu Cheng (Illinois Institute of Technology, US)
Bin Liu (Tsinghua University, CN)

An Approximation Algorithm for Constructing Multicast Trees with Degree-Dependent Node Costs
Hwa-Chun Lin (National Tsing Hua University, TW)
Shiu-Ming Yang (National Tsing Hua University, TW)

Reliable Multicasting in Disruption Tolerant Networks
Kamalavasan Srinivasan (Microsoft Corporation, US)
Parmesh Ramanathan (University of Wisconsin at Madison, US)

Mapping Multicast Service-Oriented Virtual Network with Delay and Delay Variation Constraints
Min Zhang (Zhejiang University, CN)
Chunming Wu (Zhejiang University, CN)
Ming Jiang (Hangzhou Dianzi University, CN)
Qi Yang (Imperial College London, UK)

Wednesday, 8 December 2010   16:00-17:10 Room: Brickell North
WC07: Wireless Sensor Networks
Session Chair: TBA

Energy Efficiency Analysis of Multistage Cooperation in Sensor Networks
Kanchan Vardhe, Chi Zhou (Illinois Institute of Technology, USA), Daryl Reynolds (West Virginia University, USA)

Spatial Field Estimation Through Wireless Sensor Networks Under Bandwidth Constraints
Davide Dardari, Flavio Fabbri (University of Bologna, Italy)

Region-Based Data Dissemination Scheme for Mobile Sink Groups in Wireless Sensor Networks
Hyungjoo Lee, Jeongcheol Lee, Seungmin Oh, Sang-Ha Kim (Chungnam National University, Korea)

Random On-Off Accumulative Transmission for Asynchronous Wireless Sensor Networks
Jingxian Wu (University of Arkansas, USA), Geoffrey Li (Georgia Tech, USA)

Wednesday, 8 December 2010  16:00-17:10 Room: Brickell Center
**WC19: Interference Management**
Session Chair: TBA

Total Intercarrier Interference Cancellation for MC-CDMA System in Mobile Environment
Xue Li, Ruolin Zhou (Wright State University, USA), Steven Hong (Stanford University, USA), Zhiqiang Wu (Wright State University, USA)

Aiming Perfectly in the Dark - Blind Interference Alignment through Staggered Antenna Switching
Tiangao Gou, Chenwei Wang, Syed Jafar (University of California Irvine, USA)

Interference Alignment with Asymmetric Complex Signaling and Multiuser Diversity
Hun-Young Shin, Seok-Hwan Park, Haewook Park, Inkyu Lee (Korea University, Korea)

Minimum AP Placement for WLAN with Rate Adaptation using Physical Interference Model
Zhongming Zheng, Bo Zhang, Xiaohua Jia (City University of Hong Kong, Hong Kong), Jun Zhang (The Hong Kong Polytechnic University, Hong Kong), Kan Yang (City University of Hong Kong, Hong Kong)

Wednesday, 8 December 2010  16:00-17:10 Room: Brickell South
**WC31: Network Coding II**
Session Chair: TBA

Generalized Sum-Product Algorithm for Joint Channel Decoding and Physical-Layer Network Coding in Two-Way Relay Systems
Dirk Wübben, Yidong Lang (University of Bremen, German)

Qimin You, Yonghui Li (University of Sydney, Australia), Zhuo Chen (CSIRO ICT Centre, Australia)

Adaptive Network Coding in Two-Way Relaying MIMO Systems
Toshiaki Koike-Akino (Harvard University, USA)

Graph-Based Optimization for Relay-Assisted Bidirectional Cellular Networks
Yuan Liu, Meixia Tao (Shanghai Jiao Tong University, China)

Wednesday, 8 December 2010  16:00-17:10 Room: Orchard D
**WC43: Power Control I**
Session Chair: TBA

Power Control for Cognitive Radios in Nakagami Fading Channels with Outage Probability Requirement
Chin Choy Chai, Yong Huat Chew (Institute for Infocomm Research, Singapore)

Globally Optimal Resource Allocation for Achieving Maximum Weighted Sum Rate
Kristoffer Eriksson, Shuying Shi (Linköping University, Sweden), Nikola Vucic (Fraunhofer HHI, German), Martin Schubert (Fraunhofer German-Sino Lab for Mobile Communications MCI, German), Erik G. Larsson (Linköping University, Sweden)

On the Sum-Rate of Peer-to-Peer MIMO Multiuser Gaussian Interference Channels
Harpreet Dhillon, Michael Buehrer (Virginia Tech, USA)

Optimal Subcarrier-Chunk Scheduling for OFDM Systems
Na Gao, Xin Wang (Florida Atlantic University, USA)

Wednesday, 8 December 2010  16:00-17:10 Room: Riverfront North Hall
**WC7P: Networking Topologies**

Throughput-Delay Scaling for Two Mobile Overlaid Networks
Wenjie Zhang, Chai Kiat Yeo (Nanyang Technological University, Singapore)

Temporal Spectrum Sensing in Packet-Based Network Using Double Thresholds
Yingxi Liu, Nikhil Kundargi, Ahmed Tewfik (University of Minnesota, USA)

Studying the Relationships between Spatial Structures of Wireless Networks and Population Densities
Maria Michalopoulou, Janne Riihijärvi, Petri Mähönen (RWTH Aachen University, German)

Modeling of a Cooperative One-Dimensional Multi-Hop Network using Quasi-Stationary Markov Chains
Syed Ali Hassan, Mary Ann Ingram (Georgia Tech, USA)

On the Functional Relationship between Channel Holding Time and Cell Dwell Time in Mobile Cellular Networks
Anum Corral-Ruiz, Andres Rico-Paez, Felipe A. Cruz-Pérez (Cinvestav-IPN, Mexico), Genaro Hernandez-Valdez (UAM-A, Mexico)

A QoS based Low-Complex Rate-Split Scheme in Heterogeneous Cellular Networks
Wonjong Noh (Samsung Advanced Institute of Technology, Korea)
Wednesday, December 8

17:20 - 18:30

AHSN08: Localization I

Room: Tuttle South
A Two-phase Algorithm for Locating Sensors in Irregular Areas
   Wenbo Shi (University of British Columbia, Canada); Vincent Wong (University of British Columbia, Canada)
RELMA: A Range free Localization Approach using Mobile Anchor Node for Wireless Sensor Networks
   Lutful Karim (University of Guelph, Canada); Nidal Nasser (University of Guelph, Canada); Tarek El Salti (University of Guelph, Canada)
Distributed Angle Estimation for Wireless Sensor Network Localization
   Weile Zhang (Xi'an Jiaotong University, P.R. China); Qinye Yin (Xi'an Jiaotong University, P.R. China); Wenjie Wang (Xi'an Jiaotong University, P.R. China)
Optimal KNN Positioning Algorithm via Theoretical Accuracy Criterion in WLAN Indoor Environment
   Yubin Xu (Harbin Institute of Technology, P.R. China); Mu Zhou (Harbin Institute of Technology, P.R. China); Weixiao Meng (Harbin Institute of Technology, P.R. China)

AHSN20: Distributed Algorithms I

Room: Tuttle Center
Sensor Placement for Minimum Exposure in Distributed Active Sensing Networks
   Na Xia (Hefei University of Technology, P.R. China); Khuong Vu (University of Houston, USA); Rong Zheng (University of Houston, USA)
Adaptive Distributed Power Management Algorithm for Interference-aware Topology Control in Mobile Ad Hoc Networks
   Nuraj Pradhan (City University of New York, USA); Tarek Saadawi (The City University of New York/The City College, USA)
A Novel Distributed Mobility Protocol for Dynamic Coverage in Sensor Networks
   Thakshila Wimalajeewa (University of New Mexico, USA); Sudharman K Jayaweera (University of New Mexico, USA)
Design of a Distributed Protocol for Proportional Fairness in Wireless Body Area Networks
   Roberto Pagliari (Cornell University, USA); Anna Scaglione (UD Davis, USA); Ramy Abdallah Tannious (University of California Davis, USA)

AHSN32: MAC II

Room: Jasmine
Analytical Modelling of IEEE 802.15.4 for Multi-hop Networks with Heterogeneous Traffic and Hidden Terminals
Piergiuseppe Di Marco (Royal Institute of Technology, Sweden); Pangun Park (Royal Institute of Technology, Sweden); Carlo Fischione (Royal Institute of Technology, Sweden); Karl Henrik Johansson (Royal Institute of Technology, Sweden)

Fast Channel Establishment for IEEE 802.16 Wireless Mesh Networks
Kanthaiah Sivapragasam Vijayalayan (The University of Melbourne, Australia); Aaron Harwood (The University of Melbourne, Australia); Shanika Karunasekera (University of Melbourne, Australia)

A Methodology for Optimal MAC Protocol Generation: Case Study of a Synchronous MAC Channel
Jian Zhen (University of California, Santa Barbara, USA); Forrest Brewer (University of California, Santa Barbara, USA); Volkan Rodoplu (University of California, Santa Barbara, USA)

Efficient MAC Protocols Based on Latin Squares
Shih-Hsien Yang (University of California, Irvine, USA); Lichun Bao (University of California, Irvine, USA)

CT08: MIMO II

Room: Hibiscus B
Analytic Framework for the Mutual Information Cumulants of Different MIMO Fading Channels
Paul de Kerret (RWTH Aachen University, Germany); Michail Matthaiou (Chalmers University of Technology, Sweden); Rudolf Mathar (RWTH Aachen University, Germany); Josef A. Nossek (Munich University of Technology, Germany)

Mutual Information of MIMO Transmission over Correlated Channels with Finite Symbol Alphabets and Link Adaptation
Eckhard Ohlmer (Technische Universität Dresden, Germany); Udo Wachsmann (Ericsson, Germany); Gerhard Fettweis (Technische Universität Dresden, Germany)

Explicit vs. Implicit Feedback for SU and MU-MIMO
Bruno Clerckx (Samsung Advanced Institute of Technology, Korea); Gil Kim (Seoul National University, Korea); Junil Choi (Samsung Electronics, Korea); Young-Jun Hong (Samsung Electronics Co., Ltd., Korea)

Variational Message-Passing for Joint Channel Estimation and Decoding in MIMO-OFDM
Gunvor E Kirkelund (Aalborg University, Denmark); Carles Navarro Manchon (Aalborg University, Denmark); Lars Christensen (Nokia, Denmark); Erwin Riegler (Vienna University of Technology (VUT), Austria); Bernard Fleury (Aalborg University, Denmark)

CT13: Ad-Hoc Networks
Room: Hibiscus A

Compress-and-Forward Rates for the Gaussian Relay with ISI and Colored Noise
Chiranjib Choudhuri (University of Southern California, USA); Urbashi Mitra (University of Southern California, USA)

Opportunistic Relay Selection with a Direct Link
Mohamed Abouelseoud (University of Texas at Dallas, USA); Aria Nosratinia (University of Texas, Dallas, USA)

Transmission Strategies for Gaussian Relay Networks Obtained from Deterministic Models
Nicolas Schrammar (Royal Institute of Technology (KTH), Sweden); Mikael Skoglund (Royal Institute of Technology, Sweden)

Adaptive Power Allocation for Bidirectional Amplify-and-Forward Multiple-Relay Multiple-User Networks
Ted C.-K. Liu (University of Victoria, Canada); Wei Xu (Southeast University, P.R. China); Xiaodai Dong (University of Victoria, Canada); Wu-Sheng Lu (University of Victoria, Canada)

CT4P: Advanced Topics

Room: Riverfront North Hall

A Compressive Sensing Approach to NBI Cancellation in Mobile OFDM Systems
Ahmad Abdulrahman Gomaa (University of Texas at Dallas, USA); Naofal Al-Dhahir (University of Texas at Dallas, USA)

Cross-tier Interference Mitigation for Two-tier OFDMA Femtocell Networks with Limited Macrocell Information
Min-Sung Kim (Stanford University, USA); Hui Won Je (Stanford University, USA); Fouad Tobagi (Stanford University, USA)

Space-Time Network Codes utilizing Transform-based Coding
Hung-Quoc Lai (US Army RDECOM CERDEC, USA); Zhenzhen Gao (Department of Electrical and Computer Engineering, University of Maryland, USA); K. J. Ray Liu (Department of Electrical and Computer Engineering, University of Maryland, USA)

A Duality Study for Fading Multiple Access / Broadcast Channels Without Channel State Information at the Transmitter
Jörg Bühler (TU Berlin, Germany); Gerhard Wunder (Heinrich-Hertz-Institut, Germany)

Channel-Matched Coding for Coarsely Quantized Coherent Optical Communication Systems
Thomas Daniel Oliver Lang (Technische Universität München, Germany); Amine Mezghani (TU Munich, Germany); Maxim Kuschnerov (University of the Federal Armed Forces Munich, Germany); Berthold Lankl (Munich University of the German Armed Forces (Bundeswehr), Germany); Josef A. Nossek (TU Munich, Germany)

ONS08: Optical Wireless
Room: Tuttle North
Optical Communication Over Atmospheric Turbulence with Limited Channel State Information at the Transmitter
Andrew Puryear (Massachusetts Institute of Technology, USA); Vincent Chan (Massachusetts Institute of Technology, USA)
Spectral-Efficient 60-GHz xy-MIMO Data Transport over a Radio-over-Fiber System for Gigabit Wireless Local Area Networks
Shu-Hao Fan (Georgia Institute of Technology, USA); Hung-Chang Chien (Georgia Tech, USA); Arshad Chowdhury (Georgia Institute of Technology, USA); Gee-Kung Chang (Georgia Tech, USA)
Performance of Coherent BPSK Systems using Phase Compensation and Diversity Techniques
Linzi Zuo (School of Electrical and Computer Science, Peking University, P.R. China); Yongxiong Ren (School of Electrical and Computer Science, Peking University, P.R. China); Anhong Dang (Peking University, P.R. China); Hong Guo (School of Electrical and Computer Science, Peking University, P.R. China)
Mobile Multi-gigabit Spot-Diffusing Optical Wireless System Employing Beam Angle and Power Adaptation and Imaging Reception
Fuad E. Alsaadi (University of Leeds, United Kingdom); Jaafar Elmirghani (University of Leeds, United Kingdom)

SPC08: Sensor Networks

Room: Tequesta
Localization of Wireless Sensors via Nuclear Norm for Rank Minimization
Feng Chen (University of Toronto, Canada); Shahrokh Valaee (University of Toronto, Canada); Wain Sy Anthea Au (University of Toronto, Canada); Zhenhui Tan (Beijing JiaoTong University, Beijing, China, P.R. China)
Estimation Feedback and Bandwidth Allocation with the Type-based Multiple-access in Wireless Sensor Networks
Xin Wang (BeiHang University, P.R. China); Chenyang Yang (Beihang University, P.R. China)
Topology-Assisted Techniques to Relay Selection for Homogeneously Distributed Wireless Sensor Networks
Farrokh Etezadi (Concordia University, Canada); Keyvan Zarifi (University of Quebec, INRS-EMT, Canada); Ali Ghrayeb (Concordia University, Canada); Sofiene Affes (INRS-EMT, Canada)
A Hybrid Framework for Radio Localization in Broadband Wireless Systems
Jun Chen (University of Maine, USA); Ali Abedi (University of Maine, USA)

SPC14: SIMO, MISO and MIMO Systems IV

Room: IBIS
A Hybrid Codebook Design Algorithm for MIMO Amplify-and-Forward Relaying System with Power Allocation and Precoding
Yuan Luo (Beijing University of Posts and Telecommunications, P.R. China); Lihua Li (Beijing University of Posts and Telecommunications, P.R. China); Zhixin Liu (The Chinese University of Hong Kong, Hong Kong)

Maximum Sum-Rate Interference Alignment Algorithms for MIMO channels
Ignacio Santamaria (University of Cantabria, Spain); Oscar Gonzalez (University of Cantabria, Spain); Robert Heath (The University of Texas at Austin, USA); Steven W. Peters (The University of Texas at Austin, USA)

Non-Regenerative Multi-Hop MIMO Relays Using MMSE-DFE Technique
Yue Rong (Curtin University, Australia)

Asymptotic Capacity and Precoding Designs for Correlated Multi-Hop MIMO Channels
Nam Tran Nguyen (University of Nebraska-Lincoln, USA); Song Ci (University of Nebraska-Lincoln, USA)

WN08: Wireless Mesh Network Design II

Room: Peason II

Partially Overlapped Channel Assignment on Wireless Mesh Network Backbone
Pedro B. F. Duarte (Tohoku University, Japan); Zubair Md. Fadlullah (Tohoku University, Japan); Kazuo Hashimoto (Tohoku University, Japan); Nei Kato (Tohoku University, Japan)

Interference-aware Robust Wireless Mesh Network Design
Farah Kandah (North Dakota State University, USA); Weiyi (Max) Zhang (North Dakota State University, USA); Yashaswi Singh (NDSU, USA); Juan Li (North Dakota State University, USA)

Cost-Efficient Wireless Mobile Backhaul Topologies: An Analytical Study
Fang-Chun Kuo (NEC Europe Ltd., Germany); Johannes Lessmann (NEC Laboratories Europe, Germany); Frank A. Zdarsky (NEC Europe Ltd., Germany); Stefan Schmid (NEC Europe Ltd., Germany)

Scalable Publish/Subscribe Service in Wireless Mesh Networks
Juan Li (North Dakota State University, USA); Weiyi (Max) Zhang (North Dakota State University, USA); Xiaojun Xia (North Dakota State University, USA)

WN20: Power Control and Energy Efficiency

Room: Gautier

Queue-Stability-Based Transmission Power Control in Wireless Multihop Networks
Gustavo Vejarano (University of Florida, USA); Janise McNair (University of Florida, USA)

"Locking" Dynamics and Mitigation Schemes in Distributed Power Control for Wireless Networks
Jeffrey Mounzer (Stanford University, USA); Nicholas Bambos (Stanford University, USA)

Globally Optimal Distributed Power Control for Nonconcave Utility Maximization
Liping Qian (The Chinese University of Hong Kong, Hong Kong); Ying Jun (Angela) Zhang (The Chinese University of Hong Kong, Hong Kong); Mung Chiang (Princeton University, USA)
Energy Savings through Dynamic Base Station Switching in Cellular Wireless Access Networks
Eunsung Oh (University of Southern California, USA); Bhaskar Krishnamachari (University of Southern California, USA)

WN32: Wireless Relay Networks II

Room: Merrick I
Mixed Time-scale Generalized Fair Scheduling for Amplify-and-Forward Relay Networks
Alireza Sharifian (Carleton University, Canada); Petar Djukic (Carleton University, Canada); Halim Yanikomeroglu (Carleton University, Canada); Jietao Zhang (Huawei Technologies Co., Ltd., P.R. China)
Cooperative Relay in Cognitive Radio Networks: Decode-and-Forward or Amplify-and-Forward?
Donglin Hu (Auburn University, USA); Shiwen Mao (Auburn University, USA)
Energy Saving Performance Comparison of Coordinated Multi-Point Transmission and Wireless Relaying
Dongxu Cao (Tsinghua University, Beijing, China, P.R. China); Sheng Zhou (Tsinghua University, P.R. China); Chao Zhang (Tsinghua University, P.R. China); Zhisheng Niu (Tsinghua University, P.R. China)
Stability and Performance Issues of a Relay Assisted Multiple Access Scheme
Nikolaos Pappas (ICS-FORTH / University of Crete, Greece); Apostolos Traganitis (ICS-FORTH, Greece); Anthony Ephremides (University of Maryland at College Park, USA)

Wednesday, 8 December 2010, 17:20-18:30   Room: Pearson I
CIS11 Traffic Classification and Analysis
Session Chair: Yibo Xue

HMC: A Novel Mechanism for Identifying Encrypted P2P Thunder Traffic
Chenglong Li, Yibo Xue (Tsinghua university, CN), Yingfei Dong (University of Hawaii, US)

A Graph Similarity-based Approach to Security Event Analysis Using Correlation Techniques
Qishi Wu, Yi Gu (University of Memphis, US), Xiaohui Cui (Oak Ridge National Laboratory, US), Praneeth Moka, Yunyue Lin (University of Memphis, US)

A Novel Hybrid Method for Effectively Classifying Encrypted Traffic
Guanglu Sun, Yibo Xue (Tsinghua university, CN), Yingfei Dong (University of Hawaii, US), Chenglong Li, Dongsheng Wang (Tsinghua University, CN)
A Distributed Public Key Caching Scheme in Large Wireless Networks
Yuan Kong, Jing Deng (University of North Carolina at Greensboro, US), Stephen Tate (University of North Texas, US)

Wednesday, 8 December 2010  17:20-18:30  Room: Merrick II

CSSMA08: Coding Techniques
Session Chair: TBD

Incremental Rate Control for H.264 Scalable Video Coding
Yang Jin (University of Electronic Science and Technology of China, CN);
Yu Sun (University of Central Arkansas, US);
Yimin Zhou (University of Electronic Sci. & Tech. of China, CN);
Shixin Sun (University of Electronic Science and Engineering Technology of China, CN)

The Benefits of Network Coding in Distributed Caching in Large-scale P2P-VoD Systems
Wang Hui (National University of Defence Technology, CN);
Zhang Yubao (National University of Defense Technology, CN);
Pei Li (National University of Defense Technology, CN);
Zhihong Jiang (National University of Defence Technology, CN)

Priority Linear Coding Based Opportunistic Routing for Video Streaming in Ad Hoc Networks
Zhi Li (Institute of Software Chinese Academy of Sciences, CN);
Limin Sun (Institute of software, chinese academy of sciences, CN);
Xinyun Zhou (Institute of Software, Chinese Academy of Sciences, CN)

Joint Unequal Loss Protection and LT Coding for Layer-Coded Media Delivery
Haifeng Lu (Nanyang Technological University, SG);
Jianfei Cai (Nanyang Technological University, SG);
Chuan Heng Foh (Nanyang Technological University, SG)

Wednesday, 8 December 2010  17:20-18:30  Room: Orchard AB

CQRM08: Wireless Performance I
Session Chair: TBA

Adaptive Multi-Code Chaos-Based CDMA with Unequal Error Protection using Reduced Support Machine
Johnny Kao (University of Auckland, NZ)
Stevan Berber (University of Auckland, NZ)
Vojislav Kecman (University of Auckland, NZ)

An Analytical Model to Study the Packet Loss Burstiness over Wireless Channels
Fangqin Liu (Tsinghua University, CN)
Yanfei Fan (University of Waterloo, CA)
Sherman Shen (University of Waterloo, CA)
Chuang Lin (Tsinghua University, CN)

An Exponential Model for Evaluating Error Performance of Turbo codes
Qingchun Chen (Southwest Jiaotong University, CN)
Jiaxiang Li (Southwest Jiaotong University, CN)
Pingzhi Fan (Southwest Jiaotong University, CN)
Vahid Tarokh (Harvard University, US)

Application Profile based MIMO Link Adaptation in LTE Networks
Vishwanath Ramamurthi (University Of California, Davis, US)
Wei-Peng Chen (Fujitsu Laboratories, US)

Wednesday, 8 December 2010  17:20-18:30   Room: Orchard C
CQRM18: Wireless Performance II
Session Chair: TBA

Enhancing Handoff Performance By Introducing Ad hoc Mode into Cellular Networks
Rongsheng Huang (University of Florida, US)
Chi Zhang (University of Florida, US)
Hongxia Zhao (Huawei Technologies Co. Ltd., CN)
Yuguang Fang (University of Florida, US)

Optimization of the use of Radio Resource of Radio-Over-Fiber Access Networks
Pedro Henrique Gomes (State University of Campinas, BR)
Nelson L. S. da Fonseca (State University of Campinas, BR)
Omar Branquinho (Catholic University Campinas, BR)

Traffic-Aware Connection Admission Control Scheme for Broadband Mobile Systems
Angelos Antonopoulos (Telecommunications Technological Centre of Catalonia (CTTC), ES)
Harry Skianis (University of the Aegean, GR)
Christos Verikoukis (Telecommunications Technological Centre of Catalonia, ES)

Reconsider Broadcast Packet Reception Rates in One-Dimensional MANETs
Xiaomin Ma (Oral Roberts University, US)
Jinsong Zhang (University of Tulsa, US)
Tong Wu (University of Tulsa, US)

Wednesday, 8 December 2010  17:20-18:30   Room: Gardenia
SAC08: Cognitive Radio & Routing
Session Chair: TBA

On-Demand Multicast Routing in Cognitive Radio Mesh Networks
Hisham Almasaeid (Iowa State University, US), Tasneem Jawadwala (Iowa State University, US), Ahmed Kamal (Iowa State University, US)

Routing in Hybrid Mesh Networks of Cognitive and IEEE 802.11 Radios
Marcel Silva (Universidade Federal do Rio de Janeiro, BR), Jose F. de Rezende (Federal University of Rio de Janeiro, BR)

Cognitive Multipath Multi-Channel Routing Protocol for Mobile Ad-Hoc Networks
Suyang Ju (University of Kansas, US), Joseph Evans (University of Kansas, US)

Scalable Cognitive Routing Protocol for Mobile Ad-Hoc Networks
Suyang Ju (University of Kansas, US), Joseph Evans (University of Kansas, US)

Wednesday, 8 December 2010  17:20-18:30  Room: Flamingo

**NGN08: Routing**
Session Chair: TBA

Establishing Secure Virtual Trust Routing And Provisioning Domains For Future Internet
Dijiang Huang (Arizona State University, US)
Shingo Ata (Osaka City University, JP)
Deep Medhi (University of Missouri-Kansas City, US)

Evaluation and Analysis of the Inter-domain Routing System toward a New Architecture for the Future Internet
Jianli Pan (Washington University in Saint Louis, US)
Raj Jain (Washington University in St. Louis, US)
Subharthi Paul (Washington University in St. Louis, US)

An implementation of optimal dynamic load balancing based on multipath IP routing
Juan Pablo Saibene (Universidad ORT, UY)
Richard Lempert (Universidad ORT, UY)
Fernando Paganini (Universidad ORT, UY)

A Proposal for an XOR-based Flat Routing Mechanism in Internet-like Topologies
Rafael Pasquini (University of Campinas, BR)
Fábio Verdi (Federal University of São Carlos, BR)
Rodolfo Oliveira (Universidade Nova de Lisboa/Uninova, PT)
Maurício Ferreira Magalhães (State University of Campinas, BR)
Annikki Welin (Ericsson, SE)

Wednesday, 8 December 2010  17:20-18:30  Room: Brickell North

**WC08: Position and Localization**
Session Chair: TBA

Geometry and Motion Based Positioning Algorithms for Mobile Tracking in NLOS Environments
Kegen Yu (Macquarie University, Australia)

Hybrid GNSS-terrestrial Cooperative Positioning via Distributed Belief Propagation
Mauricio Caceres, Federico Penna (Politecnico di Torino, Italy), Henk Wymeersch
(Chalmers University of Technology, Sweden), Roberto Garello (Politecnico di Torino,
Italy)

Surface Based Underwater Communications
Lloyd Emokpae, Mohamed Younis (University of Maryland Baltimore County, USA)

Analysis of Localization Accuracy in Wireless Networks in Presence of Uncertain
Beacon Positions
Nikhil Bhagwat, Bijan Jabbari (George Mason University, USA)

Wednesday, 8 December 2010   17:20-18:30  Room: Brickell Center
WC20: Modulation and Coding
Session Chair: TBA

Capacity achieving modulations for the peak-power limited Gaussian channel
Alberto Perotti, Sergio Benedetto (Politecnico di Torino, Italy)

Layered Adaptive Modulation and Coding for 4G Wireless Networks
James She (University of Cambridge, United Kingdom), James Ho (University of
Waterloo, Canada), Jingqing Mei (Beijing University of Posts and Telecommunications,
China), Pin-Han Ho (University of Waterloo, Canada), Hong Ji (Beijing University of
Posts and Telecommunications, China)

Robust Multiuser Precoder for Base Station Cooperative Transmission with Non-ideal
Channel Reciprocity
Shengqian Han, Liyan Su, Chenyang Yang (Beihang University, China), Gang Wang,
Ming Lei (NEC Laboratories, China)

An EXIT-Chart Aided Design Procedure for Near-Capacity N-Component Parallel
Concatenated Codes
Hong Chen, Robert Maunder, Lajos Hanzo (University of Southampton, United
Kingdom)

Wednesday, 8 December 2010   17:20-18:30  Room: Brickell South
WC32: Network Coding III
Session Chair: TBA

Opportunistic Subchannel Scheduling for OFDMA Networks with Network Coding at
Relay Stations
Byung-Gook Kim, Jang-Won Lee (Yonsei University, Korea)

On Performance of Cooperative Multicast System with Wireless Network Coding
Yang Liu, Wenbo Wang, Mugen Peng, Dongyan Wei (Beijing University of Posts and Telecommunications, China)

Minimum Broadcast Decoding Delay for Generalized Instantly Decodable Network Coding
Sameh Sorour, Shahrokh Valaee (University of Toronto, Canada)

Outage Performance of DF Network Coded (DFNC) Multi-User Cooperative Diversity in Orthogonal Uplink Channels
Bin Guo, Kanchan Vardhe, Yu Liu, Chi Zhou, Yu Cheng (Illinois Institute of Technology, USA)

Wednesday, 8 December 2010  17:20-18:30  Room: Orchard D
**WC44: Power Control II**
Session Chair: TBA

Coordinated User Scheduling and Power Control for Weighted Sum Throughput Maximization of Multicell Network
Lu Liu, Daiming Qu, Tao Jiang, Jie Ding (Huazhong University of Science and Technology, China)

Integrated Power Controlled Adaptive Rate Link Scheduling in Wireless Mesh Networks
Kian Hedayati, Izhak Rubin (University of California at Los Angeles, USA)

On the Performance of Cooperative Diversity with Arbitrary Power Allocation
Khairi Hamdi (University of Manchester, United Kingdom)

Energy-Efficient Multi-Carrier Link Adaptation with Sum Rate-Dependent Circuit Power
Christian Isheden, Gerhard Fettweis (Technische Universität Dresden, German)

Wednesday, 8 December 2010  17:20-18:30  Room: Riverfront North Hall
**WC8P: Transmission Technologies**

Blind Channel Equalization for Fast Moving Terminals in Prioritized Spatial Multiplexing MIMO Systems
Qian Liu, Chang Wen Chen (State University of New York at Buffalo, USA)

Parallel-Filtering Based Equalization of OFDM over Doubly Selective Channels
Guanghui Liu, Hongliang Li, Wei Chen, Mingzhen Wang (University of Electronic Science and Technology of China, China), Lin Wang (Xiamen University, China)

Analog Equalization for Low Power 60 GHz Receivers in Realistic Multipath Channels
Khursheed Hassan, Theodore Rappaport, Jeffrey Andrews (The University of Texas at Austin, USA)
An Information-Guided Channel-Hopping Scheme for Block-Fading Channels with Estimation Errors
Yuli Yang, Nicholas Bonello (King Abdullah University of Science and Technology, Saudi Arabia), Sonia Aissa (University of Quebec, Canada)

Pulse Shapes That Outperform Traditional UWB Antenna/Waveform Combinations
Mehrdad Mirshafiei, Mohammad Abtahi, Patrick Larochelle, Leslie Rusch (Laval University, Canada)

Performance Enhancement of Single Frequency Networks Using Randomized Transmit Phases
Kiran Rege, Krishna Balachandran, Joseph Kang, Mehmet Kemal Karakayali (Bell Labs, Alcatel-Lucent, USA)