Thursday, December 9

10:00 - 11:10

AHSN09: Localization II

Room: Tuttle South
Multi-hop Localization Using Mobility (MLM) in Mixed LOS/NLOS Environments
Tomoya Takenaka (Mitsubishi Electric Corporation, Japan); Zafer Sahinoglu (Mitsubishi Electric Research Laboratories, USA); Ghulam M. Bhatti (MERL, USA); Jinyun Zhang (MERL, USA); Hiroshi Mineno (Shizuoka University, Japan); Tadanori Mizuno (Shizuoka University, Japan)

Probabilistic Estimation of Location Error in Wireless Ad Hoc Networks
Jeremy Gribben (University of Ottawa, Canada); Azzedine Boukerche (Univ. of Ottawa, Canada)

Collaborative Position Location for Wireless Networks Using Iterative Parallel Projection Method
Tao Jia (Virginia Tech, USA); Michael Buehrer (Virginia Tech, USA)

AHSN21: Distributed Algorithms II

Room: Tuttle Center
A Distributed Wake-up Scheduling for Opportunistic Forwarding in Wireless Sensor Networks
Chul-Ho Lee (North Carolina State University, USA); Do Young Eun (North Carolina State University, USA)

A distributed algorithm for finding maximum barrier coverage in wireless sensor networks
Jun He (Texas State University - San Marcos, USA); Hongchi Shi (Texas State University-San Marcos, USA)

Connectivity-based Distance Estimation in Wireless Sensor Networks
Baoqi Huang (the Australian National University, Australia); Changbin Yu (The Australian National University, Australia); Brian Anderson (Australian National University, Australia); Guoqiang Mao (The University of Sydney, Australia)

Efficient Localized Protocols to Compute Connected Dominating Sets for Ad Hoc Networks
Khalid Almahrog (University of Waterloo, Canada); Sagar Naik (University of Waterloo, Canada); Sherman Shen (University of Waterloo, Canada)

AHSN33: Sensor Devices, Designs, and Algorithms I

Room: Jasmine
CoZi: basic Coding for better Bandwidth Utilization in ZigBee Sensor Networks
CT09: Space-Time Coding

Room: Hibiscus B
A Design of High-Rate Full-Diversity STBC with Low-Complexity PIC Group Decoding
Long Shi (University of New South Wales, Australia); Wei Zhang (University of New South Wales, Australia); Xiang-Gen Xia (University of Delaware, USA)
Asymptotically-Good, Multigroup ML-Decodable STBCs
Lakshmi Prasad Natarajan (Indian Institute of Science, Bangalore, India); B. Sundar Rajan (Indian Institute of Science, India)
Reduced ML-Decoding Complexity, Full-Rate STBCs for $2^a$ Transmit Antenna Systems
Pavan Koteshwar (Indian Institute of Science, India); B. Sundar Rajan (Indian Institute of Science, India)
An Improved Number-Theoretic Method for Constructing Approximately Universal Codes
Ming-Yang Chen (Stanford University, USA); John Cioffi (Stanford University, USA)

CT14: Transmission Techniques I

Room: Hibiscus A
Information-theoretic methods for the design and evaluation of adaptive protocols for direct-sequence spread-spectrum transmissions
Steven Boyd (Clemson University, USA); Michael Pursley (Clemson University, USA)
Joint Signal-Labeling Optimization for Pragmatic Capacity under Peak-Power Constraint
Farbod Kayhan (Politecnico di Torino, Italy); Guido Montorsi (Politecnico di Torino, Italy)
Discrete Time Faster-than-Nyquist Signalling
Michael McGuire (University of Victoria, Canada); Mihai Sima (University of Victoria, Canada)
Information Theoretic Optimal Broadband Matching
ONS09: Routing

Room: Tuttle North
Dynamic Routing Optimization in WDM Networks
Jorge Crichigno (Northern New Mexico College, USA); Joud Khoury (UNM, USA); Wei Shu (The University of New Mexico, USA); Min-You Wu (Shanghai JiaoTong University, P.R. China); Nasir Ghani (University of New Mexico, USA)
Multi-Layer/Multi-Region Path Computation with Adaptation Capability Constraints
Meral Shirazipour (Ecole Polytechnique de Montreal, Canada); Samuel Pierre (Ecole Polytechnique de Montreal, Canada)
A Fuzzy Inter-Ring Route Control with PRNN Predictor Bridged Resilient Packet Rings
Wen-Shiang Tang (National Chiao Tung University, Taiwan); Chung-Ju Chang (National Chiao Tung University, Taiwan)
Multi-period Planning with Controlled Shortest Path Routing
Clara Kronberger (Nokia Siemens Networks, Germany); Dominic A. Schupke (Nokia Siemens Networks, Germany); Joerg Eberspaecher (Technische Universität München, Germany)

SPC09: Power-Aware Communications

Room: Tequesta
Jointly Optimal Power Assignment for Multi-Source Multi-Destination Relay Networks
Fuyu Chen (State University of New York (SUNY) at Buffalo, USA); Weifeng Su (State Univ. of New York at Buffalo, USA); Stella N. Batalama (State University of New York at Buffalo, USA); John D. Matyjas (Air Force Research Laboratory, USA)
Joint power control and relay matrix design for cooperative communication networks with multiple source-destination pairs
Keyvan Zarifi (University of Quebec, INRS-EMT, Canada); Ali Ghayeb (Concordia University, Canada); Sofiene Affes (INRS-EMT, Canada)
Energy Efficient MISO Collaborative Communication System in AWGN and Rayleigh Fading Channel
Syed Husnain Abbas Naqvi (University of Auckland, New Zealand); Stevan Mirko Berber (University of Auckland, New Zealand); Zoran Salcic (The University of Auckland, New Zealand)
Power Minimization in Parallel Vector Broadcast Channels with Zero-Forcing Beamforming
Christoph Hellings (Technische Universität München, Germany); Michael Joham (Technische Universität München, Germany); Wolfgang Utschick (Technische Universität München, Germany)

SPC15: MIMO and OFDM
Room: IBIS
Frequency Synchronization for Multiuser MIMO-OFDM System Using Bayesian Approach
Chen Jianwen (IBM Research China, P.R. China); Jianwu Chen (The University of Hong Kong, Hong Kong)

Suboptimal and Optimal MIMO-OFDM Iterative Detection Schemes
Pei Xiao (Queens University Belfast, United Kingdom); Zihuai Lin (University of Sydney, Australia); Wu Yin (University of Newcastle Upon Tyne, United Kingdom); Colin Cowan (Queen's University Belfast, United Kingdom)

Channel Code Aided Decision-Directed Channel Estimation for MIMO OFDM/SDMA Systems Based on the ```Expectation-Conditional Maximization Either``` Algorithm
Jiankang Zhang (ECS, University of Southampton, UK, United Kingdom); Lajos Hanzo (University of Southampton, United Kingdom); Xiaomin Mu (Zhengzhou University, P.R. China)

Optimal Resource Allocation for Video Delivery over MIMO OFDM Wireless Systems
Shengjie Zhao (Bell Labs, USA); Mingli You (Alcatel Shanghai Bell Co., Ltd., P.R. China); Luoning Gui (Alcatel Shanghai Bell Co., Ltd, P.R. China)

SPC1P: Topics in Signal Processing for Communications I (Poster)

Room: Riverfront North Hall
Novel PMEPR Control Approach for 64- and 256-QAM Coded OFDM Systems
Scott Chih-Hao Huang (City University of Hong Kong, Hong Kong); Hsiao-Chun Wu (Louisiana State University, USA); John Cioffi (Stanford University, USA)

Multi-Resolution Bayesian Compressive Sensing for Cognitive Radio Primary User Detection
Steven Hong (Stanford University, USA)

Power Allocation for Distributed Turbo Product Codes (DTPC)
Esam Ali Obiedat (University of Mississippi, USA); Lei Cao (The University of Mississippi, USA); Peng Huo (University of Mississippi, USA)

Competitive Downlink Beamforming Design in Multiuser Multicell Wireless Systems
Duy H. N. Nguyen (McGill University, Canada); Tho Le-Ngoc (McGill University, Canada)

Hardware Implementation of an Iterative Sampling Rate Converter for Wireless Communication
Michal Stala (ST-Ericsson, Sweden); Can Bilgin (ST-Ericsson, Sweden); Rakesh Gangarajaiah (ST-Ericsson, Sweden); Joachim Rodrigues (Lund University, Sweden)

Enhancing the Network Sum-Rate Without Sharing Channel State Information between Base Stations
Ralf M Bendlin (University of Notre Dame, USA); Yih-Fang Huang (University of Notre Dame, USA); Michel Ivrlac (Munich University of Technology, Germany); Josef A. Nossek (Munich University of Technology, Germany)

WN09: Cognitive Networking III
Room: Pearson II

CORAL: Spectrum Aware Admission Policy in Cognitive Radio Mesh Networks
Kaushik Chowdhury (Northeastern University, USA); Marco Di Felice (University of Bologna, Italy); Luciano Bononi (University of Bologna, Italy)
On Cognitive Network Channel Selection and the Impact on Transport Layer Performance
Yao Liu (UC San Diego, USA); Bheemarjuna Reddy Tamma (University of California, San Diego, USA); Manoj Bs (University of California, San Diego, USA); Ramesh Rao (University of California at San Diego, USA)

Cognitive Network Inference through Bayesian Network Analysis
Giorgio Quer (Università di Padova, Italy); Sankara Narayana Hemanth Meenakshisundaram (University of California, San Diego, USA); Bheemarjuna Reddy Tamma (University of California, San Diego, USA); Manoj Bs (University of California, San Diego, USA); Ramesh Rao (University of California at San Diego, USA); Michele Zorzi (University of Padova, Italy)

Novel Policy Reasoning Architecture for Cognitive Radio Environments
Daniel Denkovski (Faculty of Electrical Engineering and Information Technologies - Skopje, Macedonia); Valentina Pavlovska (Faculty of Electrical Engineering and Information Technologies, Skopje, Macedonia); Vladimir Atanasovski (Faculty of Electrical Engineering and Information Technologies - Skopje, Macedonia); Liljana Gavrilovska (Faculty of Electrical Engineering and Information Technologies, Macedonia)

WN21: Femtocell Wireless Networks

Room: Gautier

Impact of Coordination Delay on Distributed Scheduling in LTE-A Femtocell Networks
Ritesh Madan (QUALCOMM-Flarion Technologies, USA); Ashwin Sampath (Qualcomm, USA); Naga Bhushan (QUALCOMM, USA); Aamod Khandekar (Qualcomm, USA); Mohammad Jaber Borran (Qualcomm, USA); Tingfang Ji (Qualcomm Inc., USA)
Pilot Power Minimization in HSDPA Femtocells
Yalin Zhang (Shenzhen Graduate School, Harbin Institute of Technology, P.R. China); Yang-Yang Li (University of Toronto, Canada); Elvino Silveira Sousa (University of Toronto, Canada); Qinyu Zhang (Shenzhen Graduate School, Harbin Institute of Technology, P.R. China)

Hierarchical Competition in Femtocell-Based Cellular Networks
Sudarshan Guruacharya (Nanyang Technological University, Singapore); Dusit Niyato (Nanyang Technological University, Singapore); Ekram Hossain (University of Manitoba, Canada); Dong In Kim (Sungkyunkwan University, Korea)

Cognition and Docition in OFDMA-based Femtocell Networks
Ana María Galindo (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Spain); Lorenza Giupponi (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Spain); Mischa Dohler (CTTC, Spain)
Thursday, 9 December 2010, 10:00-11:10   Room: Pearson I

**CIS12 Distributed System Security**
Session Chair: Yang Xiao

Building Global View with Log Files in a Distributed/Network System  
Songqing Yue, Yang Xiao (The University of Alabama, US)

Piece Fingerprinting: Binding Content and Data Blocks Together in Peer-to-peer Networks  
Walter Wong, Maurício Ferreira Magalhães (State University of Campinas, BR), Jussi Kangasharju (University of Helsinki, FI)

SKWeak Attacks on Path Splicing: Vulnerability Assessment and Defense Mechanisms  
Emad Guirgui, Mina Guirguis, Christopher Page (Texas State University, US)

Risk-Aware Response for Mitigating MANET Routing Attacks  
Ziming Zhao, Hongxin Hu, Gail-Joon Ahn (Arizona State University, US)

Thursday, 9 December 2010   10:00-11:10   Room: Merrick II

**CSSMA09:  Locality and Peer Caching**
Session Chair: TBD ()

The Performance of Peer-Assisted User Generated Video-on-Demand Systems  
Zhengye Liu (Polytechnic University, US);  
Yong Liu (Polytechnic Institute of NYU, US);  
Keith W. Ross (Brooklyn Polytech, US)

Peer-Assisted Caching for Scalable Media Streaming in Wireless Backhaul Networks  
Hazem A. Gomaa (University of Calgary, CA);  
Geoffrey G. Messier (University of Calgary, CA);  
Robert Davies (TRLabs / University of Calgary, CA);  
Carey Williamson (University of Calgary, CA)

Adaptive Peer Caching for P2P Video-on-Demand Streaming  
Jongtack Kim (Seoul National University, KR);  
Heesu Im (Seoul National University, KR);  
Saewoong Bahk (Seoul National University, KR)

Exploring Locality of Reference in P2P VoD Systems  
Danqi Wang (Nanyang Technological University, SG);  
Chai Kiat Yeo (Nanyang Technological University, SG)

Thursday, 9 December 2010   10:00-11:10   Room: Riverfront North Hall

**CSSMA1P:  (Poster) Service Platforms and Techniques**
Lu-chuan Kung (University of Illinois, US)

An NGN-based Cross-Domain Shared File System
Marcus Q. Kuhnen (NEC Laboratories Europe, DE)
Johannes Häussler (NEC Europe Ltd., DE)
Anett Schuelke (NEC Laboratories Europe, DE)
Harald Kornmayer (NEC Laboratories Europe, DE)
Federico Marmori (NEC Laboratories Europe, CH)
Matthias Kraus (NEC Laboratories Europe, DE)

Feature Interaction Analysis for Collaboration Spaces with Communication Endpoints
Mario Kolberg (University of Stirling, UK)
John Buford (Avaya Labs Research, US)
K. Kishore Dhara (Avaya Labs Research, US)
Venkatesh Krishnaswamy (Avaya Labs Research, US)
Xiaotao Wu (Avaya Labs Research, US)

BFilter - A XML Message Filtering and Matching Approach in Publish/Subscribe Systems
Liang Dai (Carleton University, CA)
Chung-Horng Lung (Carleton University, CA)
Shikharesh Majumdar (Carleton University, CA)

Reconsidering Social Networks for Enterprise Communication Services
K. Kishore Dhara (Avaya Labs Research, US)
Venkatesh Krishnaswamy (Avaya Labs Research, US)
Taranjeet Singh (Indian Institute of Technology, Kanpur, IN)

Distortion-Delay Tradeoff in Real-Time Wireless Video Scheduling
Liang Zhou (ENSTA-ParisTech, FR)
Joel Rodrigues (IT, University of Beira Interior, PT)
Athanasios Vasilakos (University of Western Macedonia, GR)

Thursday, 7 December 2010  10:00-11:10   Room: Orchard AB
CQRM09: Wireless Performance III
Session Chair: TBA

Cooperative Algorithm for the Global Planning Problem of UMTS Networks
Shangyun Liu (Carleton University, CA)
Marc St-Hilaire (Carleton University, CA)
Dynamic Channel and Interface Management in Multi-channel Multi-interface Wireless Access Networks
Hassan Halabian (Carleton University, CA)
Ioannis Lambadaris (Carleton University, CA)
Chung-Horng Lung (Carleton University, CA)
Anand Srinivasan (Carleton University, CA)

Scheme for Estimating ADSL Link Capacity based on Delay Measurements of Different Length Packets
Makoto Aoki (Cyber Creative Institute, JP)
Eiji Oki (The University of Electro-Communications, JP)

A Novel Framework for Dynamic Utility-Based QoE Provisioning in Wireless Networks
Giorgos Aristomenopoulos (National Technical University of Athens, GR)
Timotheos Kastrinogiannis (National Technical University of Athens, GR)
Vassilios Kaldanis (ICCS/NTUA, Technical University of Athens, GR)
George Karantonis (VELTI, GR)
Symeon Papavassiliou (Institute of Comm. and Comp. Systems/National Technical University of Athens, GR)

Thursday, 7 December 2010  10:00-11:10  Room: Orchard C

CQRM19: Cognitive Radio and Networks III
Session Chair: TBA

Cognitive Radio Scheduling for Overwater Communications
Weiyi (Max) Zhang (North Dakota State University, US)
Shi Bai (North Dakota State University, US)
Yang Liu (North Dakota State University, US)
Jian Tang (Montana State University, US)

Dynamic Channel and Power Allocation in Cognitive Radio Networks Supporting Heterogeneous Services
Renchao Xie (Beijing University of Posts and Telecommunications, CN)
Hong Ji (Beijing University of Posts and Telecommunications, CN)
Pengbo Si (Beijing University of Technology, CN)
Yi Li (Beijing University of Posts and Telecommunications, CN)

A Novel Signal Separation Algorithm For Wideband Spectrum Sensing In Cognitive Radio Networks
Dan Liu (University of Electronic Science and Technology of China, CN)
Chao Li (University of Electronic Science and Technology of China, CN)
Jian Liu (University of Electronic Science and Technology of China, CN)
Keping Long (University of Electronic Science and Technology of China, CN)
Energy Detection Based Spectrum Sensing for Cognitive Radio: An Experimental Study
Kyungtae Kim (NEC Labs America, Inc., US)
Yan Xin (NEC Laboratories America Inc., US)
Sampath Rangarajan (NEC Labs America, US)

Thursday, 7 December 2010   10:00-11:10   Room: Riverfront North Hall
CQRM1P: Internet and P2P
Session Chair: TBA

GreenCloud: A Packet-level Simulator of Energy-aware Cloud Computing Data Centers
Dzmitry Kliazovich (University of Luxembourg, LU)
Pascal Bouvry (University of Luxembourg, LU)
Yury Audzevich (University of Trento, IT)
Samee Khan (North Dakota State University, US)

A Genetic Algorithm for the Global Planning Problem of UMTS Networks
Shangyun Liu (Carleton University, CA)
Marc St-Hilaire (Carleton University, CA)

The quest for LEDBAT fairness
Giovanna Carofiglio (Bell Labs, Alcatel-Lucent, FR)
Luca Muscariello (Orange Labs, FR)
Dario Rossi (TELECOM ParisTech, FR)
Silvio Valenti (TELECOM ParisTech, FR)

On Fairness and Locality in P2P-TV through Large-Scale Measurement Experiment
Thomas Silverston (The University of Tokyo, JP)
Olivier Fourmaux (University Pierre et Marie Curie (Paris6), FR)
Kavé Salamatian (LISTIC PolyTech, UniversitÃ© de Savoie Chambery Annecy, FR)
Kenjiro Cho (IIJ, JP)

P2P Video-on-Demand: Steady State and Scalability
Pasi Lassila (Helsinki University of Technology, FI)
Samuli Aalto (TKK Helsinki University of Technology, FI)
Niklas Raatikainen (Helsinki Institute for Information Technology, FI)
Petri Savolainen (Helsinki Institute for Information Technology, FI)
Sasu Tarkoma (University of Helsinki, FI)

Using Hidden Markov Chains for Modeling P2P-TV Traffic
Maria Antonieta Garcia da Rocha Neta (Politecnico di Torino, IT)
Ana Paula Silva (Federal University of Juiz de Fora, IT)
Michela Meo (Politecnico di Torino, IT)

Thursday, 9 December 2010   10:00-11:10   Room: Gardenia
SAC09: Coding on Data Storage
A class of generalized quasi-cyclic LDPC codes: high-rate and low-complexity encoder for data storage devices
  Vo Tam Van (Toyota Technological Institute, Japan); Hajime Matsui (Toyota Technological Institute, Japan); Seiichi Mita (Central Research Laboratory, Hitachi, Ltd., Japan)

Serial Turbo Coding Performance for Rectangular-Grain TDMR Models
  William Ryan (University of Arizona, USA); Roger Wood (Hitachi Global Storage, USA); Aleksandar Kavcic (University of Hawaii, USA); Bane Vasic (University of Arizona, USA); Lu Pan (University of Arizona, USA)

LDPC Codes for Memory Systems with Scrubbing
  Seungjune Jeon (Carnegie Mellon University, USA); Euiseok Hwang (Carnegie Mellon University, USA); Vijayakumar Bhagavatula (Carnegie Mellon University, USA); Michael K. Cheng (Jet Propulsion Laboratory, USA)

Flash Coding Scheme Based on Error-Correcting Codes
  Qin Huang (University of California, Davis, USA); Shu Lin (UC Davis, USA); Khaled Abdel-Ghaffar (University of California, USA)

On the Capacity of Hybrid FSO/RF Links
  Hassan Moradi (University of Oklahoma, USA); Maryam Falahpour (University of Oklahoma, USA); Hazem Refai (Oklahoma University, USA); Peter LoPresti (Tulsa University, USA); Mohammed Atiquzzaman (University of Oklahoma, USA)

Dynamic Bandwidth Allocation of Satellite/Terrestrial Integrated Mobile Communication System
  Takaya Yamazato (Nagoya University, Japan); Tomohiro Aman (Nagoya University, Japan); Masaaki Katayama (Nagoya University, Japan)

A Joint Multi-User Synchronization Method for SC-FMDA in Broadband Satellite Return Channel
  Stefano Rosati (University of Bologna, Italy); Stefano Cioni (University of Bologna, Italy); Alessandro Vanelli-Coralli (University of Bologna, Italy); Giovanni Emanuele Corazza (University of Bologna, Italy); Gennaro Gallinaro (Space Engineering S.p.A., Italy); Alberto Ginesi (ESA/ESTEC, The Netherlands)

A 3-D Channel Model for Distributed MIMO Satellite System
  Xing Li (University of Colorado at Boulder, USA); Youjian (Eugene) Eugene Liu (University of Colorado at Boulder, USA)
Session Chair: TBA

Husheng Li (University of Tennessee, US), Robert Qiu (Tennessee Tech University, US)

Competitive Spectrum Trading in Dynamic Spectrum Access Markets: A Price War  
Yi Tan (Stevens Institute of Technology, US), Shamik Sengupta (John Jay College of Criminal Justice, City University of New York, US), Koduvayur Subbalakshmi (Stevens Institute of Technology, US)

A Class of Three-User Multiple Access Cognitive Radio Channels: An Achievable Rate Region  
Kyatsandra Nagananda (Lehigh University, US), Shalinee Kishore (Lehigh University, US)

Performance of Opportunistic Spectrum OFDMA Network with Users of Different Priorities and Traffic Characteristics  
Jihoon Park (University of California Los Angeles, US), Przemyslaw Pawelczak (University of California, Los Angeles, US), Pål Grønsund (Telenor Corporate Development, NO), Danijela Cabric (University of California Los Angeles, US)

Dynamic Spectrum Allocation based on Interference Threshold Modeling  
Chao Zou (Michigan Tech, US), Chunxiao Chigan (Michigan Tech, US)

Performance Analysis of Dynamic Spectrum Access Networks under Primary User Emulation Attacks  
Zituo Jin (Stevens Institute of Technology, US), Santhanakrishnan Anand (Stevens Institute of Technology, US), Koduvayur Subbalakshmi (Stevens Institute of Technology, US)

Thursday, 9 December 2010  10:00-11:10  Room: Flamingo

NGN09: Future Internet

Session Chair: TBA

A Future Internet Architecture Based on De-conflated Identities  
Subharthi Paul (Washington University in St. Louis, US)  
Jianli Pan (Washington University in Saint Louis, US)  
Raj Jain (Washington University in St. Louis, US)

Transport Stratum Services in NGN: a SOA-oriented design  
Giovanni Branca (University of Cagliari, IT)  
Paolo Anedda (University of Cagliari, Italy, IT)  
Luigi Atzori (University of Cagliari, IT)

Introducing Infocards in NGN to enable user-centric identity management  
Davide Proserpio (Universidad Carlos III de Madrid, ES)
Platforms and Software Systems for an Autonomic Internet

Thursday, 9 December 2010   10:00-11:10  Room: Brickell North

**WC09: OFDM I**
Session Chair: TBA

*Frequency Offset Estimation in I/Q mismatched OFDM Receivers*
Marco Moretti, Michele Morelli (University of Pisa, Italy)

*Femtocell Access Control in the TDMA/OFDMA Uplink*
Ping Xia (University of Texas at Austin, USA), Vikram Chandrasekhar (Texas Instruments, USA), Jeffrey Andrews (The University of Texas at Austin, USA)

*Zero-forcing based Decode-and-Forward Cooperative Relaying Scheme over Doubly Selective Fading Channels*
Khuong Ho-Van, Tho Le-Ngoc (McGill University, Canada)

*OFDM Signal Sensing over Doubly-Selective Fading Channels*
Jinfeng Tian (Shanghai Research Center for Wireless Communications (WiCO), China), Haiyou Guo (Shanghai Institute of Microsystem and Information Technology, China), Honglin Hu (Shanghai Research Center for Wireless Communications, China)

Thursday, 9 December 2010   10:00-11:10  Room: Brickell Center

**WC21: Resource Allocation I**
Session Chair: TBA
Differentiated Pricing Scheme for Flow Control in Multiuser Access Networks
Jin Hu, Jiaolong Wei, Fuyuan Peng, Cai Liu, Ya Luo (Huazhong University of Science and Technology, China)

Efficient communications over wireless sensor networks
Hacene Fouchal, Thibault Bernard (University of Reims Champagne Ardenne, France)

Fair Bandwidth Sharing for Time-Constraint Flows in Vehicular Networks
Jian Pu, Mounir Hamdi (Hong Kong University of Science and Technology, China)

Fast Distributed Rate Control Algorithm with QoS Support in Ad Hoc Networks
Zhang Guihua, Weiqiang Xu (Zhejiang Sci-Tech University, China)

Thursday, 9 December 2010 10:00-11:10 Room: Brickell South
WC33: Scheduling I
Session Chair: TBA

Limited Feedback Design for Block Diagonalization MIMO Broadcast Channels with User Scheduling
Sung-Hyun Moon, Jin-Sung Kim, Inkyu Lee (Korea University, Korea)

Performance Analysis of User Selected Subband Channel Quality Indicator Feedback Scheme of LTE
Sushruth Donthi, Neelesh Mehta (Indian Institute of Science, India)

Performance Analysis of Scheduling in Decode-and-Forward Broadcast Channel with Limited-Feedback
Wei Ni, Zhuo Chen, Hajime Suzuki, Iain Collings (CSIRO, Australia)

TDMA Achieves the Same Diversity Gain as Opportunistic Scheduling in Relay-assisted Wireless Networks
Suzhi Bi, Ying Jun (Angela) Zhang (The Chinese University of Hong Kong, Hong Kong)

Thursday, 9 December 2010 10:00-11:10 Room: Orchard D
WC45: Wireless Networks
Session Chair: TBA

Throughput, Capacity, Handover and Latency Performance in a 3GPP LTE FDD Field Trial
Marilynn Green (Nokia Siemens Networks, USA), Tommy Svensson (Chalmers University of Technology, Sweden)

Multi-User Cooperation for Channel Selection in Cognitive Radio Networks: A Bayesian Approach
Guangxiang Yuan (BUPT, China), Yi Zhu (UCL, China), Yu Zhang (Imperial College London, United Kingdom), Yang Yang (Shanghai Research Center for Wireless
Communications, China), Wenbo Wang (Beijing University of Posts and Telecommunications, China), Zhong Fan, Mahesh Sooriyabandara (Toshiba Research Europe Limited, United Kingdom)

Data Gathering with Compressive Sensing for Large-Scale Wireless Sensor Networks
Yuefei Zhu, Xinbing Wang (Shanghai Jiaotong University, China)

Fair and QoS-oriented Spectrum Splitting in Macrocell-Femtocell Networks
Mustafa Cenk Erturk, Hazar Aki (University of South Florida, USA), Ismail Guvenc (DOCOMO USA Labs, USA), Huseyin Arslan (University of South Florida, USA)

Thursday, 9 December 2010 10:00-11:10 Room: Riverfront North Hall

**WC9P: MIMO and Relay**

Collaborative Nonlinear Transceiver Optimization in Multi-tier MIMO Cognitive Radio Networks with Deterministically Imperfect CSI
Ebrahim Avazkonandeh Gharavol (National University of Singapore, Singapore), Ying-Chang Liang (Institute for Infocomm Research, Singapore), Koen Mouthaan (National University of Singapore, Singapore)

Limited Feedback Schemes for Multiuser MIMO Downlink Transmission
Guido Dietl, Olivier Labrèche (DOCOMO Euro-Labs, German), Wolfgang Utschick (Technische Universität München, German)

Rate Gap Analysis for Rate-adaptive Antenna Selection and Beamforming Schemes
Karthikeyan Shanmugam, Srikrishna Bhaskyam (Indian Institute of Technology Madras, India)

A Comparison Between Unitary and Non-Unitary Precoder Design for MIMO Channels with MMSE Detection and Limited Feedback
Dzevdan Kapetanovic, Fredrik Rusek (Lund University, Lund, Sweden)

Optimizing Receive Combining Vectors for Multiantenna Users in Multiuser MIMO Precoding
Ngoc-Dung Dao (Toshiba Research Europe Ltd., United Kingdom), Fengming Cao (Toshiba Europe Research Telecommunication Lab, United Kingdom), Yong Sun (Toshiba Research Europe Limited, United Kingdom)

Feedback Delay Effect on Dual-hop MIMO AF Relaying with Antenna Selection
Gayan Amarasuriya, Chintsa Tellambura, Masoud Ardakani (University of Alberta, Canada)
Thursday, December 9

11:20 - 12:30

AHSN10: Clustering I

Room: Tuttle South
A Hybrid relative distance based cluster scheme for Energy Efficiency in Wireless Sensor Networks
Hui Gao (Lanzhou University, Lanzhou, P.R.China, P.R. China); Hongkun Li (Illinois Institute of Technology, USA); Yu Cheng (Illinois Institute of Technology, USA)
Mohammad Abdul Azim (Rennes, France); Nizar Bouabdallah (INRIA, France)
A Cluster-head Selection and Update Algorithm for Ad Hoc Networks
Hao Wu (Beijing Jiaotong University, P.R. China); Zhangdui Zhong (Beijing Jiaotong University, P.R. China); Lajos Hanzo (University of Southampton, United Kingdom)
Topology Stability-based Clustering for Wireless Mesh Networks
Martin Krebs (RWTH Aachen University, Germany); André Stein (RWTH Aachen University, Germany); Mónica Alejandra Lora (RWTH Aachen University, Germany)

AHSN22: Energy Saving and Power Control Protocols I

Room: Tuttle Center
Fair Energy Allocation in Wireless Sensor Networks: Theory and Practice
Qinghua Wang (Norwegian University of Science and Technology, Norway); Tingting Zhang (Mid Sweden University, Sweden)
Channel-Aware Energy Efficient Transmission Strategies For Large Wireless Sensor Networks
Hyoungsuk Jeon (Korea Advanced Institute of Science and Technology (KAIST), Korea); Jinho Choi (Swansea University, United Kingdom); Hyuckjae Lee (Korea Advanced Institute of Science and Technology (KAIST), Korea); Jeongseok Ha (Korea Advanced Institute of Science and Technology, Korea)
Felipe Costa (Yokohama National University, Japan); Hideki Ochiai (Yokohama National University, Japan)
Aravind M Canthadai (University of Oklahoma, USA); Sridhar Radhakrishnan (University of Oklahoma, USA); Venkatesh Sarangan (Oklahoma State University, USA)

AHSN34: Sensor Devices, Designs, and Algorithms II
Room: Jasmine

SHIELD: Social sensing and Help In Emergency using mobiLe Devices
Gautam Thakur (University of Florida, USA); Mukul Sharma (University of Florida, USA); Ahmed Helmy (University of Florida, USA)

Comparison between Preamble Sampling and Wake-Up Receivers in Wireless Sensor Networks
Richard Su (UC Berkeley, USA); Thomas Watteyne (Berkeley Sensor & Actuator Center, UC Berkeley, USA); Kristofer Pister (UC Berkeley, USA)

Virtual Sensor for Mobile Sensor Data Cleaning-
Sitthapon Pumpichet (Florida International University, USA); Niki Pissinou (Florida International University, USA)

A New Broadcast Protocol For Vehicular Ad hoc Networks Safety Applications
Khalid Abdel Hafeez (Ryerson University, Canada); Lian Zhao (Ryerson University, Canada); Zaiyi Liao (Ryerson University, Canada); Ngok-Wah Ma (Department fo Electrical and Computer Engineering, Ryerson University, Canada)

CT15: Analysis I

Room: Hibiscus A

Unified Theoretical Expressions for the Average Error Rate of Selection Diversity with Arbitrary Coded and Uncoded Modulation in Slow Rayleigh Fading and Their Application to Analytical, Semi-Analytical and Simulation Performance Evaluation
Norman C. Beaulieu (University of Alberta, Canada)

Complex Gaussian Ratio Distribution with Applications for Error Rate Calculation in Fading Channels with Imperfect CSI
Robert John Baxley (Georgia Tech Research Institute, USA); Brett Walkenhorst (Georgia Tech Research Institute, USA); Guillermo Acosta-Marum (Georgia Institute of Technology, USA)

Superanalysis of the Interference Effect on Adaptive Antenna Systems
Youngmin Jeong (Kyung Hee University, Korea); Hyundong Shin (Kyung Hee University, Korea); Moe Win (Massachusetts Institute of Technology, USA)

An Approximate Distribution of Instantaneous Power in Band-Limited PSK Signals
Hideki Ochiai (Yokohama National University, Japan)

ONS10: Survivability

Room: Tuttle North

Efficient Protection in Single-Domain Networks using Network Coding
Isil B. Barla (Technical University of Munich, Germany); Franz Rambach (Nokia Siemens Networks GmbH & Co. KG, Germany); Dominic A. Schupke (Nokia Siemens Networks, Germany); Georg Carle (Technische Universität München, Germany)

Stability of p-Cycles under Dynamic Traffic
Brigitte Jaumard (Concordia University, Canada); Ammar Metnani (Universite de Montreal, Canada)
1+N protection in polynomial time: a heuristic approach
Mirzad Mohandespouri (Iowa State University, USA); Ahmed E. Kamal (Iowa State University, USA)

Circulant-Graph-Based Fault-Tolerant Routing for Avionic All-Optical WDM LANs
Dexiang Wang (University of Florida, USA); Janise McNair (University of Florida, USA)

SPC16: OFDM and Multi-carrier Systems I

Room: IBIS
Frequency-Domain Oversampling for Zero-Padded OFDM in Underwater Acoustic Communications
Zhaohui Wang (University of Connecticut, USA); Shengli Zhou (University of Connecticut, USA); Georgios B. Giannakis (University of Minnesota, USA); Christian R Berger (Carnegie Mellon University, USA); Jie Huang (University of Connecticut, USA)
Partial Data-Dependent Superimposed Training Based Iterative Channel Estimation for OFDM Systems over Doubly Selective Channels
Lan Lan He (The University of Hong Kong, Hong Kong); Shaodan Ma (The University of Hong Kong, P.R. China); Yik-Chung Wu (The University of Hong Kong, Hong Kong); Tungsang Ng (University of Hong Kong, Hong Kong)
Blind Estimation of Common Phase Error in OFDM and OFDMA
Gokul Sridharan (University of Toronto, Canada); Teng Joon Lim (University of Toronto, Canada)
Outage Throughput Maximization for OFDMA Systems with Feedback Channel Capacity Constraints
Lin Bai (Swansea University, United Kingdom); Chen Chen (Peking University, P.R. China); Bo Wu (Peking University, P.R. China); Duc To (Swansea University, United Kingdom); Jinho Choi (Swansea University, United Kingdom)

SPC2P: Topics in Signal Processing for Communications II (Poster)

Room: Riverfront North Hall
Adaptive Distributed Source Coding over Erasure Channels using particle-based Belief Propagation
Lijuan Cui (University of Oklahoma, USA); Shuang Wang (University of Oklahoma, USA); Samuel Cheng (University of Oklahoma, USA)
Dynamic Resource Allocation Based Partial Crosstalk Cancellation in DSL Networks
Beier Li (Katholieke Universiteit Leuven, Belgium); Paschalis Tsiapfakis (Katholieke Universiteit Leuven, Belgium); Marc Moonen (Katholieke Universiteit Leuven, Belgium); Jochen Maes (Alcatel-Lucent, Belgium); Mamoun Guenach (Bell Laboratories, Alcatel-Lucent, Antwerp, Belgium)
Frame synchronization techniques for non-binary LDPC codes over GF(q)
Rodrigue Imad (ETIS, CNRS, ENSEA, Univ Cergy Pontoise, France); Charly Poulliat (ETIS, CNRS, ENSEA, Univ Cergy-Pontoise, France); Sebastien Houck (Institut TELECOM ; TELECOM Bretagne, France)
Automatic Gain Control for ADC-limited Communication
   Feifei Sun (Beijing University of Posts and Telecommunications, P.R. China); Jaspreet Singh (University of California, Santa Barbara, USA); Upamanyu Madhow (University of California, Santa Barbara, USA)

Robust General Rank Precoding Design for Amplify-and-Forward Relay Network
   Dhananjaya Ponukumati (Jacobs University Bremen, Germany); Feifei Gao (Jacobs University, Bremen, Germany); Lisheng Fan (Shantou University, P.R. China)

Optimum Training Sequences for Data-Aided Synchronization
   Christopher G Shaw (Brigham Young University, USA); Michael Rice (Brigham Young University, USA)

WN10: Dynamic Spectrum Access III

Room: Pearson II
OFDM Signal Type Recognition and Adaptability Effects in Cognitive Radio Networks
   Anna Vizziello (University of Pavia, Italy); Ian F. Akyildiz (Georgia Institute of Technology, USA); Lorenzo Favalli (University of Pavia, Italy); Pietro Savazzi (Università degli Studi di Pavia, Italy)

Voice Capacity of Cognitive Radio Networks for Both Centralized and Distributed Channel Access Control
   Subodha Gunawardena (University of Waterloo, Canada); Weihua Zhuang (University of Waterloo, Canada)

Channel Allocation for Smooth Video Delivery over Cognitive Radio Networks
   Sanying Li (University of Waterloo, Canada); Hao Luan (University of Waterloo, Canada); Sherman Shen (University of Waterloo, Canada)

Dynamic Spectrum Access with QoS Guarantee for Wireless Networks: A Markov Approach
   Yanjun Yao (Beijing University of Posts and Telecommunications, P.R. China); Zhiyong Feng (Beijing University of Posts and Telecommunications, P.R. China); Wei Li (Victoria University of Wellington, New Zealand); Yi Qian (University of Nebraska–Lincoln, USA)

WN22: Mobile Social Networks

Room: Gautier
A Controlled Coalitional Game for Wireless Connection Sharing and Bandwidth Allocation in Mobile Social Networks
   Dusit Niyato (Nanyang Technological University, Singapore); Zhu Han (University of Houston, USA); Walid Saad (University of Oslo, UniK, Norway); Are Hjørungnes (University of Oslo, Norway)

Optimal Content Transmission Policy in Publish-Subscribe Mobile Social Networks
   Dusit Niyato (Nanyang Technological University, Singapore); Ping Wang (Nanyang Technological University, Singapore); Ekram Hossain (University of Manitoba, Canada); Yifan Li (Nanyang Technological University, Singapore)

Friendship based Routing in Delay Tolerant Mobile Social Networks
Towards Optimal Cooperative Caching in Social Wireless Networks
Mahmoud Taghizadeh (Michigan State University, USA); Anthony Plummer Jr (Michigan State University, USA); Ali Aqel (Michigan State University, USA); Subir Biswas (Michigan State University, USA)

Thursday, 9 December 2010, 11:20-12:30   Room: Pearson I

CIS13 Wireless Security
Session Chair: <TBD>

An Implementation Scheme of Flow-Net and Its Applications on Detecting Attacks in Wireless Networks
Bo Fu, Yang Xiao (The University of Alabama, US)

On Unified Intra/Inter Coding and Signature/Hash Authentication Diversity for Efficient and Secure Wireless Video Transmission
Wei Wang (South Dakota State University, US), Michael Hempel (University of Nebraska-Lincoln, US), Dongming Peng, Hamid Sharif (University of Nebraska-Lincoln, US), Honggang Wang (University of Massachusetts, Dartmouth, US), Hsiao-Hwa Chen (National Cheng Kung University, TW)

Secrecy in Two-Way Relay Systems
Shengli Fu (University of North Texas, US), Tao Zhang (New York Institute of Technology, US), Michael Colef (New York Institute of Technology, US)

Identifying insider-based jammers in multi-channel wireless networks
Hoang Nguyen, Thadpong Pongthawornkamol, Klara Nahrstedt (University of Illinois at Urbana-Champaign, US)

Thursday, 9 December 2010  11:20-12:30  Room: Merrick II

CSSMA10: P2P Assistant Content Delivery
Session Chair: TBD()

Strategies of Collaboration in Multi-channel P2P VoD Streaming Multimedia Analysis, Processing and Communications
Zhi Wang (Tsinghua University, CN); Chuan Wu (The University of Hong Kong, HK); Lifeng Sun (Tsinghua University, CN); Shiqiang Yang (Tsinghua University, CN)

ViVUD: Virtual Server Cluster based View-Upload Decoupling for Multi-Channel P2P Video Streaming Systems
Chao Liang (Polytechnic Institute of NYU, US); Yong Liu (Polytechnic Institute of NYU, US)

Dimensioning Network Interfaces with Aggregate P2P TV Traffic
Andrzej Bak (Warsaw University of Technology, PL); 
Piotr Gajowniczek (Warsaw University of Technology, PL)

RS-VOD: Reliable and Scalable VOD Services Provisioning System Using P2P Retransmissions
Hamid Nafaa (University College Dublin, IE);
Manon Gaucher (Google Europe Ltd., IE);
Liam Murphy (University College Dublin, IE)

Thursday, 9 December 2010  11:20-12:30   Room: Merrick I
**CSSMA13: Network Management**
Session Chair: TBD ()

A Forwarding-chain based Mobile Multicast Scheme with Management Support
Zhiwei Yan, (Beijing Jiaotong University, China)
Huachun Zhou, (Beijing Jiaotong University, China)
Zhang Hongke, (Beijing Jiaotong University, China)

A Scalable and Highly Available Network Management Architecture on Consistent Hashing
Byungjoon Lee (ETRI, Korea)
Youhyeon Jeong (ETRI, Korea)
Hoyoung Song (ETRI, Korea)
Youngseok Lee (Chungnam National University, Korea)

A Network Management System for a Heterogeneous, Multi-tier Network
Lisa Frye (Kutztown University, USA)
Liang Cheng (Lehigh University, USA)

Economics of Technological Games Among Telecommunication Service Providers
Patrick Maillé (Telecom Bretagne, France)
Bruno Tuffin (INRIA Rennes - Bretagne Atlantique, France)
Jean-Marc Vigne (Institut Telecom/Telecom Bretagne, France)

Thursday, 9 December 2010  11:20-12:30   Room: Riverfront North Hall
**CSSMA2P: (Poster) Communications software and Services**
Session Chair: TBD ()

High Level Abstraction Modeling for Network Configuration Validation
Khalid Elbadawi (DePaul University, US)
James Yu (University, US)

Forwarding Repeated Game for End-to-End QoS Support in Fiber-Wireless Access Networks
José Coimbra (University of Algarve, PT)
Gabriela Schütz (University of Algarve, PT)
Noelia Correia (University of Algarve, PT)

A New Strategy for Efficient Decentralized Network Control
Evariste Logota (University of Aveiro, Instituto de Telecomunicações, PT)
Augusto Neto (Universidade Federal de Goiás, Brazil, BR)
Susana Isabel Barreto de Miranda Sargento (Instituto de Telecomunicações, Universidade de Aveiro, Portugal, PT)

Media Independent End User Behavior and Performance Reports
Miguel Almeida (Universidade de Aveiro, PT)
Susana Isabel Barreto de Miranda Sargento (Instituto de Telecomunicações, Universidade de Aveiro, Portugal, PT)

Audiovisual Quality Estimation for Video Calls in Wireless Applications
Mohammad Goudarzi (University of Plymouth, UK)
Lingfen Sun (University of Plymouth, UK)
Emmanuel Ifeachor (University of Plymouth, UK)

Adaptive Wireless Multimedia Communications with Context-awareness Using Ontology-based Models
Haiyan Luo (University of Nebraska-Lincoln, USA)
Song Ci (University of Nebraska-Lincoln, USA)
Dalei Wu (University of Nebraska Lincoln, USA)
Hui Tang (IOA, Chinese Academy of Sciences, China)

Thursday, 7 December 2010   11:20-12:30   Room: Orchard AB
CQRM10: Performance I
Session Chair: TBA

Investigating Scaling Behavior of End-to-End Delay
Hanlin Sun (BUPT, CN)
Yuehui Jin (Beijing University of Posts and Telecommunications, CN)
Yidong Cui (Beijing University of Posts and Telecommunications, CN)
Shiduan Cheng (Beijing University of Posts & Telecommunications, CN)

Overload Prediction Based on Delay in Wireless OFDMA Systems
Evilasio Lucena (Federal University of Ceara, BR)
Francisco Lima (Wireless Telecom Research Group (GTEL), BR)
Walter Freitas (Federal University of Ceará, BR)
Francisco Cavalcanti (Federal University of Ceará, BR)

Modeling and Analysis for End-to-End Service Performance in Virtualization-Based Next Generation Internet
Approximated Calculation of Connection Level Access Waiting Time Distribution in OFDMA-Based Wireless Cellular Systems with AMC
Rubén Murillo-Pérez (Cinvestav-IPN, MX)
Carmen B. Rodríguez Estrello (Cinvestav-ipn, MX)
Felipe A. Cruz-Pérez (Cinvestav-IPN, MX)

Thursday, 7 December 2010 11:20-12:30 Room: Orchard C
CQRM20: Performance II
Session Chair: TBA

A 3-D Markov Chain Model for a Multi-Dimensional Indoor Environment
Samya Bhattacharya (Tata Consultancy Services, IN)
Bilal Qazi (University of Leeds, UK)
Jaafar Elmirghani (University of Leeds, UK)

Buffered Crossbar based Parallel Packet Switch
Zhuo Sun (Florida International University, US)
Masoumeh Karimi (Florida International University, US)
Deng Pan (Florida International University, US)
Zhenyu Yang (Florida International University, US)
Niki Pissinou (Florida International University, US)

On the Complexity of Power Minimization Schemes in Data Center Networks
Rick McGeer (HP Laboratories, US)
Priya Mahadevan (HP Labs, US)
Sujata Banerjee (Hewlett-Packard Laboratories, US)

Optimal Key Generation Policies for MANET Security
Hussein Al-Zubaidy (Carleton University, CA)
Ioannis Lambadaris (Carleton University, CA)
Yannis Viniotis (North Carolina State University, US)
Changcheng Huang (Carleton University, CA)
Ren-Hung Hwang (National Chung-Cheng University, TW)

Thursday, 7 December 2010 11:20-12:30 Room: Riverfront North Hall
CQRM2P: Performance
Session Chair: TBA

Call Admission Control Scheme for Improved Quality of Service in WiMAX Communication at Vehicular Speeds
Iftekhar Ahmad (Edith Cowan University, AU)
Daryoush Habibi (Edith Cowan University, AU)
Distributed Dynamic Resource Allocation in Tandem Networks
Michael Markou (University of Cyprus, CY)
Christos Panayiotou (University of Cyprus, CY)

Mitigating SIP Overload Using a Control-Theoretic Approach
Yang Hong (Carleton University, CA)
Changcheng Huang (Carleton University, CA)
James Yan (Carleton University, CA)

Performance Improvement in Satellite Networks Based on Markovian Weather Prediction
Kamal Harb (University of Carleton, CA)
F. Richard Yu (Carleton University, CA)
Pramod Dhakal (Eion Inc., CA)
Anand Srinivasan (Carleton University, CA)

Two-degree-of-freedom Congestion Control Strategy Against Time Delay and Disturbance
Hao Wang (Shanghai Jiao Tong University, CN)
Chenda Liao (University of Florida, US)
Zuohua Tian (Shanghai Jiao Tong University, CN)

A Unified Hardware and Channel Noise Model for Communication Systems
Amin Khajeh (University of California, Irvine, US)
Kiarash Amiri (University of California, Irvine, US)
Muhammad Khairy (University of California, Irvine, US)
Ahmed Eltawil (University of California, Irvine, US)
Fadi Kurdahi (University of California, Irvine, US)

Thursday, 9 December 2010  11:20-12:30  Room: Gardenia
SAC10: Sensing II
Session Chair: TBA

Hidden primary user awareness in cognitive radio routing: the SBBO protocol
Pierpaolo Salvo (University of Rome La Sapienza, IT), Francesca Cuomo (University of Rome La Sapienza, IT), Anna Abbagnale (University of Rome, IT)

Sensing Wireless Microphone with ESPRIT from Noise and Adjacent Channel Interference
Dan Zhang (WINLAB, Rutgers University, US), Lijun Dong (Rutgers University, US), Narayan Mandayam (WINLAB, Rutgers University, US)

Minimizing Detection Time while Guaranteeing Desired Detection Accuracy in Cooperative Primary User Detection
Shengliang Peng (National Mobile Communication Research Lab., Southeast University, CN), Xi Yang (Southeast University, CN), Shuli Shu (Southeast University, CN), Xiuying Cao (National Mobile Communication Research Lab., Southeast University, CN)

Joint Optimization of Spectrum Sensing for Cognitive Radio Networks
Ling Luo (University of Washington, US), Chittabrata Ghosh (University of Cincinnati, US), Sumit Roy (University of Washington, US)

Thursday, 9 December 2010   11:20-12:30   Room: Hibiscus B
SAC13: Vehicle Systems and Wireless Technology
Session Chair: TBA

Distributed Transmit Beamforming with Autonomous and Self-organizing Mobile Antennas
Jian Hou (Zhejiang University, CN); Zhiyun Lin (Zhejiang University, CN); Wenyuan Xu (University of South Carolina, US); Gangfeng Yan (Zhejiang University, CN)

Quality Evaluation of Vehicle Navigation with CPS
Yang Yang (Shanghai Jiao Tong University, CN); Xu Li (State University of New York at Buffalo, US); Wei Shu (The University of New Mexico, US); Min-You Wu (Shanghai JiaoTong University, CN)

Vehicle-to-Roadside Multihop Data Delivery in 802.11p/WAVE Vehicular Ad Hoc Networks
Claudia Campolo (University "Mediterranea" of Reggio Calabria, IT); Antonella Molinaro (University "Mediterranea" of Reggio Calabria, IT)

Distributed High Accuracy Peer-to-Peer Localization in Mobile Multipath Environments
Venkatesan Nallampatti Ekambaram (University of California Berkeley, US); Kannan Ramchandran (University of California at Berkeley, US)

Thursday, 9 December 2010   11:20-12:30   Room: Riverfront North Hall
SAC2P: Topics in Satellite and Space Communications
Session Chair: Takaya Yamazato (Nagoya University, Japan)

Cognitive Satellite Terrestrial Radios
Sithamparanathan Kandeepan (Create-Net International Research Centre, Italy); Luca De Nardis (University of Rome La Sapienza, Italy); Maria Gabriella Di Benedetto (University of Rome La Sapienza Italy, Italy); Alessandro Guidotti (University of Bologna, Italy); Giovanni Corazza (University of Bologna, Italy)

Impact of Imperfect Parameter Estimation on the Performance of Multi-User ARGOS Receivers
Benoit Escrig (Université de Toulouse, France); Fares Fares (TéSA, France); Marie-Laure Boucheret (Enseeiht, France); Thibaud Calmettes (Thales Alenia Space, France); Hervé Guillon (CNES, France)

Analysis and Performance of MIMO-OFDM in Mobile Satellite Broadcasting Systems
Stefano Cioni (University of Bologna, Italy); Alessandro Vanelli-Coralli (University of Bologna, Italy); Giovanni Emanuele Corazza (University of Bologna, Italy); Paolo Burzigotti (European Space Agency ESA/ESTEC, The Netherlands); Pantelis-Daniel Arapoglou (National Technical University of Athens, Greece)

Tesla with FLUTE over Satellite Network
Lei Liang (University of Surrey, United Kingdom); Zhili Sun (University of Surrey, United Kingdom); Haitham Cruickshank (University of Surrey, United Kingdom); Gorry Fairhurst (University of Aberdeen, United Kingdom); Chamil Kulatunga (Waterford Institute of Technology, Ireland)

Mode Switching Algorithms for DVB-S2 Links in W Band
Sandeep Mukherjee (University of Rome Tor Vergata, Italy); Mauro De Sanctis (University of Rome "Tor Vergata", Italy); Tommaso Rossi (University of Rome “Tor Vergata”, Italy); Marina Ruggieri (University of Roma Tor Vergata, Rome, Italy, Italy); Ramjee Prasad (Center for TeleInFrastruktur (CTiF), Aalborg University, Denmark, Denmark)

Thursday, 9 December 2010   11:20-12:30 Room: Flamingo

**NGN10: Peer-to-Peer Networking**
Session Chair: TBA

Leveraging Network Motifs for the Adaptation of Structured Peer-to-Peer-Networks
Lachezar Krumov (University of Technology Darmstadt, DE)
Immanuel Schweizer (Technische Universität Darmstadt, DE)
Dirk Bradler (TU Darmstadt, DE)
Thorsten Strufe (TU Darmstadt, DE)

A Coalition Formation Game in Partition Form for Peer-to-Peer File Sharing Networks
Walid Saad (University of Oslo, UniK, NO)
Zhu Han (University of Houston, US)
Tamer Başar (University of Illinois at Urbana-Champaign, US);
Merouane Debbah (Supelec, FR)
Are Hjørungnes (University of Oslo, NO)

On the Interactions between Non-Cooperative P2P Overlay and Traffic Engineering Behaviors
Chaojiong Wang (University of Surrey, UK)
Ning Wang (University of Surrey, UK)
Michael P. Howarth (University of Surrey, UK)
George Pavlou (University College London, UK)
Deadline-based Differentiation in P2P Streaming
Csaba Kiraly (University of Trento, IT)
Renato Lo Cigno (University of Trento, IT)
Luca Abeni (University of Trento, IT)

Thursday, 9 December 2010  11:20-12:30 Room: Tequesta
**NGN13: Network Addressing**
Session Chair: TBA

Utilizing Destination Options Header to Resolve IPv6 Alias Resolution
Qian Shiyao (State Key Lab. of Software Development Environment, Beihang University, CN)
Yahui Wang (Beihang University, CN)
Ke Xu (State Key Lab. of Software Develop Environment Beihang University, CN)

DIMDS: a cross federation identity solution for converged networks
Konstantinos Lampropoulos (University of Patras, GR)
Spyros Denazis (University of Patras, GR)

Dynamic Port-Range-based Address Sharing
Andreas Ripke (NEC Labs Europe, DE)
Marcus Brunner (NEC Europe Ltd., DE)
Juergen Quittek (NEC Europe Ltd, DE)
Rolf Winter (NEC Network Labs, DE)
Holger Zuleger (Vodafone, DE)

PET: Prefixing, Encapsulation and Translation for IPv4-IPv6 Coexistence
Peng Wu (Tsinghua University, China, CN)
Yong Cui (Tsinghua University, China, CN)
Mingwei Xu (Tsinghua University, CN)
Jianping Wu (Tsinghua University, CN)
Xing Li (Tsinghua University, CN)
Chris Metz (Cisco Systems, US)

Thursday, 9 December 2010  11:20-12:30 Room: Brickell North
**WC10: OFDM II**
Session Chair: TBA

Low-Complexity Leakage-Based Carrier Frequency Offset Estimation Technique for OFDMA Uplink
Kilbom Lee, Sung-Hyun Moon, Inkyu Lee (Korea University, Korea)

Accurate Performance Analysis of OFDM Over Nakagami-m Fading with Nonuniform Phase Distribution
Khairi Hamdi (University of Manchester, United Kingdom)
Capacity and outage probability in multiuser OFDM dual-hop relay systems
Tsan-Ming Wu, Szu-Liang Wang (Chung Yuan Christian University, Tai Wan)

Outage Exponent for OFDM Channels
Bo Bai (Hong Kong University of Science & Technology, Hong Kong), Wei Chen (Tsinghua University, China), Khaled Letaief (Hong Kong University of Science & Technology, Hong Kong), Zhigang Cao (Tsinghua University, China)

Thursday, 9 December 2010 11:20-12:30 Room: Brickell Center
**WC22: Resource Allocation II**
Session Chair: TBA

On Resource Reuse for Cellular Networks with Femto- and Macrocell Coexistence
Yongsheng Shi, Allen MacKenzie (Virginia Tech, USA), Luiz A. DaSilva (Virginia Polytechnic Institute and State University, Ireland), Kaveh Ghaboosi, Matti Latva-aho (UuOulu, Finland)

Channel Assignment Problem: A Fuzzy-based Hybrid Approach
Yasmin Hovakeemian, Olufisayo Ekpenyong, Mohammad Towhidul Islam, Kshirasagar Naik (University of Waterloo, Canada)

Achievable Rates of Multi-Antenna Downlink Channels with Peak Power Constraints
Ihn-Jung Baik, Sae-Young Chung, Junmo Kim (KAIST, Korea)

Self-Organizing Coalitions for Conflict Evaluation and Resolution in Femtocells
Luis Garcia, Gustavo Costa, Andrea Cattoni (Aalborg University, Denmark), Klaus Pedersen, Preben Mogensen (Nokia Siemens Networks, Denmark)

Thursday, 9 December 2010 11:20-12:30 Room: Brickell South
**WC34: Scheduling II**
Session Chair: TBA

Efficient Link Scheduling for MIMO Ad Hoc Networks in Time-Varying Channels
Yan Shi, Michael Jensen (Brigham Young University, USA)

Scheduling Methods with MIMO Interference Alignment for Mutually Interfering Broadcast Channels
Haewook Park, Seok-Hwan Park, Hakjea Sung, Inkyu Lee (Korea University, Korea)

Multicell Scheduling in Network MIMO
Saeed Kaviani, Witold Krzymien (University of Alberta / TRLabs, Canada)

Resource Allocation and Scheduling in Multi-Cell OFDMA Decode-and-Forward Relaying Networks
Derrick Wing Kwan Ng, Robert Schober (University of British Columbia, Canada)
WC46: Wireless Security
Session Chair: TBA

Physical Layer Security for Two Way Relay Communications with Friendly Jammers
Lingyang Song (Peking University, China), Zhu Han (University of Houston, USA), Bingli Jiao (Peking University, China), Merouane Debbah (Supelec, France)

Location Spoofing Attack Detection in Wireless Networks
Jeong Lee, Michael Buehrer (Virginia Tech, USA)

PHY-Authentication Protocol for Spoofing Detection in Wireless Networks
Liang Xiao (Xiamen University, China), Alex Reznik (InterDigital, USA), Wade Trappe (WINLAB, Rutgers University, USA), Chunxuan Ye, Yogendra Shah (InterDigital Communications Corp., USA), Larry Greenstein, Narayan Mandayam (WINLAB, Rutgers University, USA)

Techniques for Enhanced Physical-Layer Security in Wireless Networks
Pedro Pinto (Massachusetts Institute of Technology, USA), Joao Barros (University of Porto, Portugal), Moe Win (Massachusetts Institute of Technology, USA)

Thursday, 9 December 2010   11:20-12:30 Room: Riverfront North Hall
WC10P: Wireless Channel and Interference Cancellation

New Representations for the Multivariate Weibull Distribution With Constant Correlation
Kasun Hemachandra, Norman Beaulieu (University of Alberta, Canada)

Interference Analysis of Busy Burst Enabled Interference Avoidance
Sinan Sinanovic (University of Edinburgh, United Kingdom), Gunther Auer (DOCOMO Euro-Labs, German), Harald Haas (The University of Edinburgh, United Kingdom)

Interference Alignment Via Improved Subspace Conditioning
Douglas Kim, Murat Torlak (The University of Texas at Dallas, USA)

Creating Desirable Interference by Optimized Sectorization in Cellular Systems
Ines Riedel, Peter Rost, Patrick Marsch, Gerhard Fettweis (Technische Universitaet Dresden, German)

BICM-ID Systems with Signal Space Diversity over Rayleigh Fading Channels
Qiuliang Xie, Kewu Peng, Fang Yang, Zhaocheng Wang (Tsinghua University, China)
Thursday, December 9

16:00 - 17:10

AHSN11: Clustering II

Room: Tuttle South
Overlapping Clusters Algorithm in Ad hoc Networks
  Volodymyr Pryyma (University of Central Florida, USA); Nevin Aydin (Istanbul Arel Universitesi, Turkey); Farid Naït-Abdesselam (University of Lille, France); Damla Turgut (University of Central Florida, USA)
Lifetime Extending Heuristic for Clustered Wireless Sensor Networks
  Eddie Law (Ryerson University, Canada); Barnabas C Okeke (Ryerson University, Canada)
Maximization of Data Gathering in Clustered Wireless Sensor Networks
  Tianqi Wang (University of Rochester, USA); Wendi Heinzelman (University of Rochester, USA); Alireza Seyedi (University of Rochester, USA)
An Efficient TDMA Scheme with Dynamic Slot Assignment in Clustered Wireless Sensor Networks
  Shafiq Ullah Hashmi (University of Ottawa, Canada); Jahangir H. Sarker (University of Ottawa, Canada); Hussein Mouftah (University of Ottawa, Canada); Nicolas D. Georganas (University of Ottawa, Canada)

AHSN23: Energy Saving and Power Control Protocols II

Room: Tuttle Center
Sequential Random Selection Relaying for Energy Efficient Wireless Sensor Networks
  Seyed A Mousavifar (University of British Columbia, Canada); Tamer Khattab (Qatar University, Qatar); Mazen Omar Hasna (Qatar University, Qatar)
Equitable Energy Consumption During Repeated Transmissions in a Multihop Wireless Network
  Aravind Kailas (University of North Carolina Charlotte, USA); Mary Ann Ingram (Georgia Teck, USA)
Energy-Efficient Duty Cycle Assignment for Receiver-Based Convergecast in Wireless Sensor Networks
  Yuqun Zhang (University of Rochester, USA); Chen-Hsiang Feng (University of Rochester, USA); Ilker Demirkol (University of Rochester, USA); Wendi Heinzelman (University of Rochester, USA)
Cooperative Relay Scheduling under Partial State Information in Energy Harvesting Sensor Networks
  Huijiang Li (Rensselaer Polytechnic Institue, USA); Neeraj Jaggi (Wichita State University, USA); Biplab Sikdar (Rensselaer Polytechnic Institute, USA)

AHSN35: Tracking and Detection

Room: Jasmine
Low Altitude Target Tracking Algorithm with Acoustic Wireless Sensor Network
Guo Yunfei (Hangzhou Dianzi University, P.R. China); Xue Anke (Hangzhou Dianzi University, P.R. China); Hongyang Chen (University of Tokyo, Japan); Chen Huajie (Hangzhou Dianzi University, P.R. China); Peng Dongliang (Hangzhou Dianzi University, P.R. China); Kaoru Sezaki (University of Tokyo, Japan)

Joint Multiple Target Tracking and Channel Estimation in Wireless Sensor Networks
Majdi Mansouri (University of Technology of Troyes, France); Snoussi Hichem (University of Technology of Troyes, France); Cedric Richard (University of Technology of Troyes, France)

Decentralized Robust Acoustic Source Localization with Wireless Sensor Networks for Heavy-tail Distributed Observations
Yong Liu (Northwestern Polytechnical University, USA); Yu-hen Hu (University of Wisconsin-Madison, USA); Quan Pan (Northwestern Polytechnical University, P.R. China)

Finding and Mending Barrier Gaps in Wireless Sensor Networks
Anwar Saipulla (University of Massachusetts Lowell, USA); Benyuan Liu (University of Massachusetts Lowell, USA); Jie Wang (Univ of Mass Lowell, USA)

CT16: Security

Room: Hibiscus A
Providing Secrecy Irrespective of Eavesdropper's Channel State
He Xiang (Pennsylvania State University, USA); Aylin Yener (Pennsylvania State University, USA)

Trusted Storage over Untrusted Networks
Paulo Oliveira (IT / Universidade do Porto, Portugal); Luisa Lima (Universidade do Porto, Portugal); Tiago T. Vinhoza (Instituto de Telecomunicações, Portugal); Joao Barros (University of Porto, Portugal); Muriel Medard (MIT, USA)

Secure Broadcasting over Fading Channels with Statistical QoS Constraints
Deli Qiao (University of Nebraska-Lincoln, USA); M. Cenk Gursoy (University of Nebraska-Lincoln, USA); Senem Velipasalar (University of Nebraska-Lincoln, USA)

A Framework for Partial Secrecy
Paul W Cuff (Princeton University, USA)

SPC17: OFDM and Multi-carrier Systems II

Room: IBIS
A Novel Equalization Method for OFDM Systems without Guard Interval
Umut Yunus (Osaka Prefecture University, Japan); Hai Lin (Osaka Prefecture University, Japan); Katsumi Yamashita (Osaka Prefecture University, Japan)

Low Complexity Block Processing Algorithms for Adaptive Channel Estimation in OFDM Systems
Christian Rohde (University of Erlangen-Nuremberg, Germany); Wolfgang Gerstacker (University of Erlangen-Nuernberg, Germany); Wolfgang Koch (University of Erlangen, Germany)

TDS-OFDM Transmit Diversity Based on Space-Time Shifted CAZAC Sequence
Linglong Dai (Tsinghua University, P.R. China); Jintao Wang (Tsinghua University, P.R. China); Zhaocheng Wang (Tsinghua University, P.R. China); Jun Wang (Tsinghua University, Puerto Rico)

Superimposed Pilot Based Joint CFO and Channel Estimation for CP-OOFDM Modulated Two-Way Relay Networks
Gongpu Wang (University of Alberta, Canada); Feifei Gao (Jacobs University, Bremen, Germany); Chintha Tellambura (University of Alberta, Canada)

SPC3P: Topics in Signal Processing for Communications III (Poster)

Room: Riverfront North Hall
On the Computation/Memory Trade-Off in Software Defined Radios
Vincenzo Pellegrini (Università di Pisa, Italy); Mario Di Dio (University of Pisa, Italy); Marco Luise (University of Pisa, Italy); Luca Rose (Supelec, France)

A Novel Accurate Method for Estimating the Time ACF of a Sum of Complex Plane Waves
Ali Chelli (University of Agder, Norway); Matthias Pätzold (University of Agder, Norway)

Cyclostationary-based Architectures for Spectrum Sensing in IEEE 802.22 WRAN
Deepa Bhargavi (Indian Institute of Science, India); Anand Padmanabha Iyer (Microsoft Research, India); Chandra R Murthy (Indian Institute of Science, India)

Joint encoder and buffer control for statistical multiplexing of multimedia contents
Nesrine Changuel (L2S - Alcatel Lucent Bell Labs, France); Bessem Sayadi (Alcatel-Lucent Bell-Labs, France); Michel Kieffer (L2S - CNRS - SUPELEC - Univ Paris-Sud, France)

Femtosecond All-Optical Signal-Processing with a M-Z Interferometer exploiting Gain Enhancement by Spectral Red-Shift in SOAs
Claudio Crognale (TechnoLabs S.p.A., Italy); Antonella Di Giansante (TechnoLabs S.p.A., Italy); Mario Frezzini (Technolabs S.p.A., Italy)

WN11: Routing in Wireless Networks I

Room: Pearson II
Optimal Constrained Candidate Selection for Opportunistic Routing
Angela Sara Cacciapuoti (University of Naples Federico II, Italy); Marcello Caleffi (University of Naples "Federico II", Italy); Luigi Paura (Università di Napoli Federico II, Italy)

Energy-Aware Real-Time Opportunistic Routing for Wireless Ad Hoc Networks
Wei Yang (National University of Defense Technology, P.R. China); Weifa Liang (Australian National University, Australia)

LOR: Localized Opportunistic Routing in Large-scale Wireless Network
Yanhua Li (Beijing University of Posts and Telecommunications, P.R. China); Xurong Sun (University of Minnesota, USA); Zheng Zhou (BUPT, P.R. China)

Opportunistic Overlay Multicast in Wireless Networks
Tan Le (Polytechnic Institute of New York University, USA); Yong Liu (Polytechnic Institute of NYU, USA)

WN23: Scheduling

Room: Gautier
Simple and Effective Scheduling in Wireless Networks under the Physical Interference Model
   Dejun Yang (Arizona State University, USA); Xi Fang (Arizona State University, USA); Guoliang Xue (Arizona State University, USA); Afsheen Irani (Arizona State University, USA); Satyajayant Misra (New Mexico State University, USA)

Greedy Maximal Scheduling in Wireless Networks
   Qiao Li (Carnegie Mellon University, USA); Rohit Negi (Carnegie Mellon University, USA)

Distributed Scheduling and Routing in Underwater Wireless Networks
   Kurtis Kredo II (University of California, Davis, USA); Prasant Mohapatra (University of California, Davis, USA)

An Opportunistic Scheduling Scheme for Cognitive Wireless Networks with Cooperative Beamforming
   Juan Liu (Tsinghua University, P.R. China); Wei Chen (Tsinghua University, P.R. China); Zhigang Cao (Tsinghua University, P.R. China); Ying Jun (Angela) Zhang (The Chinese University of Hong Kong, Hong Kong)

Thursday, 9 December 2010, 16:00-17:10   Room: Pearson I

CIS14 Sensor Security
Session Chair: Xiaojiang Du

Defending Resource Depletion Attacks on Implantable Medical Devices
   Xiali Hei, Xiaojiang Du, Jie Wu (Temple University, US), Fei Hu (University of Alabama, US)

Secure and Energy Aware Routing (SEAR) in Wireless Sensor Networks
   Di Tang (Michigan State University, US), Tingting Jiang (Virginia Tech, US), Jian Ren (Michigan State University, US)

Secure Cooperation Incentive Scheme with Limited Use of Public Key Cryptography for Multi-hop Wireless Network
   Mohamed Mahmoud, Sherman Shen (University of Waterloo, CA)

Robust State Estimation Under False Data Injection in Distributed Sensor Networks
   Shanshan Zheng, Tao Jiang, John Baras (University of Maryland College Park, US)
Thursday, 9 December 2010   16:00-17:10   Room: Merrick II

**CSSMA11: Multimedia Streaming**
Session Chair: TBD

Collaborative ISP-CP Live Streaming
Him Cheng (The Hong Kong University of Science and Technology, HK);
Gary Chan (The Hong Kong University of Science and Technology, CN);
Guangyu Shi (Huawei Technologies Co., Ltd, CN);
Jian Chen (Huawei Technologies Co., Ltd, CN);
Hongbo Zhang (Huawei Technologies Co., Ltd, CN)

Optimal Pricing for Mobile Video Streaming Using Redistribution Behavior Analysis
Wanyi Lin (University of Maryland, US);
K. J. Ray Liu (Department of Electrical and Computer Engineering, University of Maryland, US)

Robust Cooperation Strategies for Wireless Video Streaming Social Networks
Wanyi Lin (University of Maryland, US);
Hong Zhao (University of Alberta, CA);
K. J. Ray Liu (Department of Electrical and Computer Engineering, University of Maryland, US)

Multi-Source Latency Variation Synchronization for Collaborative Applications
Abhishek Bhattacharya (Florida International University, US);
Zhenyu Yang (Florida International University, US);
Deng Pan (Florida International University, US)

Thursday, 9 December 2010   16:00-17:10   Room: Merrick I

**CSSMA14: Networks and Services Architecture and Engineering**
Session Chair: TBD

CommuSearch: Small-World Based Semantic Search Architecture in P2P Networks
Feiteng Xue (University of Electronic Science and Technology of China, China)
Gang Feng (University of Electronic Science and Technology of China, China)
Yide Zhang (University of Electronic Science and Technology of China, China)

On Minimizing Network Wide Node Update Time
Lei Shi (Waterford Institute of Technology, Ireland)
Jing Fu (Ericsson Research, Sweden)
Steven Davy (Waterford Institute of Technology, Ireland)

Online Traffic Engineering with Limited Flow Disruption
Huan Luo (North Carolina State University, USA)
Khaled Harfoush (North Carolina State University, USA)

On the Impact of Using Presence Services in P2P-based Network Management Systems
Dynamic Cross-layer Adaptation of Scalable Video in Wireless Networking
Esa Piri (VTT Technical Research Centre of Finland, FI);
Mikko Uitto (VTT Technical Research Centre of Finland, FI);
Janne Vehkaperä (VTT Technical Research Centre of Finland, FI);
Tiia Sutinen (VTT Technical Research Centre of Finland, FI)

Multi-variable cost function for Application Layer Multicast routing
Tien Anh Le (Institut Telecom, Telecom Sud Paris, FR);
Hang Nguyen (Institut Telecom, Telecom Sud Paris, FR);
Hongguang Zhang (Institut Telecom, Telecom Sud Paris, FR)

Energy-Aware Server Provisioning in Large Scale Video-on-Demand Systems
Ke Zeng (University of Science and Technology of China, CN);
Jian Yang (University of Science and Technology of China, CN)

Incentive-driven Content Distribution in Wireless Multimedia Service Networks
Heesu Im (Seoul National University, KR);
Yugyung Lee (University of Missouri-Kansas City, US);
Saewoong Bahk (Seoul National University, KR)

PaCRAm: Path aware Content Replication Approach with Multicast for IPTV Networks
Gajaruban Kandavanam (TSSG, Waterford Institute of Technology, IE);
Dimitri D Botvich (Waterford Institute of Technology, IE);
Sasitharan Balasubramaniam (TSSG, Waterford Institute of Technology, IE);
Chamil Kulatunga (Waterford Institute of Technology, IE)

Adaptive Temporal Scalability of H.264-compliant Video Conferencing in Heterogeneous Mobile Environments
Hans L. Cycon (HTW Berlin, University of Applied Sciences, DE);
Gabriel Hege (HAW Hamburg University of Applied Sciences, DE);
Detlev Marpe (Fraunhofer HHI, DE);
Mark Palkow (daViKo GmbH, DE);
Thomas C. Schmidt (HAW Hamburg (DE), DE);
Matthias Wählisch (Freie Universität Berlin, DE)
Session Chair: TBA

Performance Analysis of Exponential Increase Exponential Decrease Back-off Algorithm
Chunxuan Ye (InterDigital Communications Corporation, US)
Yan Li (InterDigital, LLC, US)
Alex Reznik (InterDigital, US)

Performance Analysis of Data Management in Sensor Data Storage via Stochastic Petri Nets
Rongfei Zeng (University of Tsinghua, CN)
Chuang Lin (Tsinghua University, CN)
Yixin Jiang (University of Waterloo, CA)
Xiaowen Chu (Hong Kong Baptist University, HK)

Performance Evaluation of IMS-based Core Networks in Presence of Failures
Maurizio Guida (University of Salerno, IT)
Maurizio Longo (University of Salerno, IT)
Fabio Postiglione (University of Salerno, IT)

Probabilistic Analysis of Resequencing Queue Length in Multipath Packet Data Networks
Jun Li (Communications Research Centre Canada, CA)
Yifeng Zhou (Communications Research Centre, CA)
Louise Lamont (Communications Research Centre Canada, CA)
Minyi Huang (Carleton University, CA)
Yiqiang Zhao (Carleton University, CA)

Thursday, 9 December 2010   16:00-17:10   Room: Orchard C
CQRM21: Performance IV
Session Chair: TBA

Increasing Voice Capacity over IEEE 802.11 WLAN using Virtual Access Points
Md. Atiur Rahman Siddique (Monash University, Australia, AU)
Joarder Kamruzzaman (Monash University, Australia, AU)

Dynamic Bandwidth Management System Using IP Flow Analysis for the QoS-assured Network
Shuntaro Kashihara (KDDI R&D Laboratories Inc., JP)
Munefumi Tsurusawa (KDDI R&D laboratories Inc, JP)

Samir Medina Perlaza (LSS, FR)
Hamidou Tembine (CNRS LSS Supelec, FR)
Samson Lasaulce (CNRS/LSS, FR)
Merouane Debbah (Supelec, FR)

The Average Total Power Consumption of Cooperative Hybrid-ARQ on Quasi-Static Rayleigh Fading Links
Sangkook Lee (State University of New York at Buffalo, US)
Weifeng Su (State Univ. of New York at Buffalo, US)
Dimitris Pados (State University of New York at Buffalo, US)
John Matyjas (Air Force Research Laboratory, US)

Thursday, 9 December 2010  16:00-17:10  Room: Riverfront North Hall
CQRM3P: Routing and Scheduling
Session Chair: TBA

Performance-oriented routing in telecommunication networks
Olivier Klopfenstein (France Télécom R&D, FR)
Hassan Hijazi (Orange Labs, FR)

Throughput of Reliable Networks with Load Balanced Shortest Path Routing
Marija Antic (Belgrade University, RS)
Aleksandra Smiljanic (Belgrade University, Polytechnic Institute of NYU, RS)

A Model for Evaluating Connectivity Availability in Random Sleep Scheduled Delay-Tolerant Wireless Networks
Tianle Zhang (Beijing University of Posts and Telecommunications, CN)
Zongwei Luo (University of Hong Kong, HK)
Chunlu Wang (Beijing Post and Telecommunication University, CN)
Edward C Wong (University of Hong Kong, HK)

A Three-Dimensional Resource Scheduling Algorithm for a Network-aware Grid
Davide Adami (CNIT Pisa Research Unit, Dept. of Information Engineering, University of Pisa, IT)
Christian Callegari (University of Pisa, IT)
Stefano Giordano (University of Pisa, IT)
Michele Pagano (University of Pisa, IT)

Delay-Optimal User Scheduling and Inter-Cell Interference Management in Cellular Network via Distributive Stochastic Learning
Huang Huang (HKUST, HK)
Vincent Lau (The university of science and technology, HK)

An End-to-End QoS Assurance Method in IEEE 802.16 Mesh networks
Yun Li (ChongQing University of Posts and Telecommunications of China, CN)
Xin Zhang (Chongqing University of Post and Telecommunications, CN)
Hongcheng Zhuang (Huawei Technologies Co.,Ltd, CN)
Xiaohu You (National Mobile communication Research Lab., Southeast University, CN)
Rate-maximization Channel Assignment Scheme for Cognitive Radio Networks
Haythem Bany Salameh (University of Arizona, US)

An Information-Theoretic Approach to Resource Consumption Minimization for Dynamic Spectrum Access Networks
Michael Pursley (Clemson University, US), Thomas Royster (Clemson University, US)

Enabling Secondary Access through Robust Primary User Channel Assignment
Jad Nasreddine (RWTH Aachen University, DE), Andreas Achtzehn (RWTH Aachen University, DE), Janne Riihijaervi (RWTH Aachen University, DE), Petri Makhonen (RWTH Aachen University, DE)

The X Loss: Band-Mix Selection with Uncertain Supply for Opportunistic Spectrum Accessing
Miao Pan (University of Florida, US), Hao Yue (University of Florida, US), Yuguang Fang (University of Florida, US), Hongyan Li (Xidian University, CN)

On the Information Propagation Speed in Mobile Vehicular Ad Hoc Networks
Zijie Zhang (University of Sydney, Australia); Guoqiang Mao (The University of Sydney, Australia); Brian Anderson (Australian National University, Australia)

QoS Support in Delay Tolerant Vehicular Ad Hoc Networks
Hanan Saleet (University of Waterloo, Canada); Rami Langar (UPMC - University of Paris 6, France); Sagar Naik (University of Waterloo, Canada); Raouf Boutaba (University of Waterloo, Canada); Amiya Nayak (SITE, University of Ottawa, Canada); Nishith Goel (Cistel, Canada)

An Efficient Fault Tolerant Location Based Service Discovery Protocol for Vehicular Networks
Azzedine Boukerche (Univ. of Ottawa, Canada); Kaouther Abrougui (SITE, University of Ottawa, Canada); Richard W. Pazzi (University of Ottawa, Canada)

Establishing strict priorities in IEEE 802.11p WAVE vehicular networks
Mohsin Barradi (University of Montreal, Canada); Abdel Hafid (University of Montreal, Canada); Jose R. Gallardo (University of Ottawa, Canada)
Compromising Electromagnetic Field Radiated by In-House PLC Lines
Pierre Degauque (University of Lille, France); Pierre Laly (University of Lille, France); Virginie Degardin (University of Lille, France); Martine Lienard (University of Lille, France); Laurent Diquelou (University of Lille, France)

Opportunistic Relaying in In-Home PLC Networks
Andrea M Tonello (University of Udine, Italy); Fabio Versolatto (Università di Udine, Italy); Salvatore D’Alessandro (University of Udine, Italy)

Characterization and Evaluation of In-Vehicle Power Line Channels
Ana Vallejo Mora (University of Málaga, Spain); Juan José Sánchez-Martínez (University of Malaga, Spain); Francisco J. Cañete (Universidad de Málaga, Spain); José Antonio Cortés Arrabal (Universidad de Málaga, Spain); Luis Díez (University of Málaga, Spain)

Need-based Communication for Smart Grid: When to Inquire Power Price?
Husheng Li (University of Tennessee, USA); Robert Caiming Qiu (Tennessee Tech University, USA)

Thursday, 9 December 2010   16:00-17:10   Room: Riverfront North Hall
SAC3P: Cognitive Radio & Wireless Networks
Session Chair: TBA

Capacity and Delay Scaling in Cognitive Radio Ad Hoc Networks: Impact of Primary User Activity
Pan Zhou (Georgia Institute of Technology, US), Yusun Chang (The Georgia Institute of Technology, US), John Copeland (Georgia Institute of Technology, US)

Power Control for Constrained Throughput Maximization in Spectrum Shared Networks
John Tadrous (Nile University, EG), Ahmed Sultan (Nile University, EG), Mohammed Nafie (Nile University, EG), Amr El-Keyi (Nile University, EG)

The Information Propagation Speed Upper Bound in Cognitive Radio Networks
Chuan Han (Virginia Polytechnic Institute and State University, US), Yaling Yang (Virginia Tech, US)

Evaluating Wireless Network Effects for SLAM Robot Map Making
Egor Reentov (University of Calgary, CA); Geoffrey G. Messier (University of Calgary, CA); Sebastian Magierowski (University of Calgary, CA)

Multi-Agent System based Wireless Sensor Network for Crisis Management
Ahmad Sardouk (Troyes University of Technology (UTT), FR); Majdi Mansouri (University of Technology of Troyes, FR); Leila Merghem-Boulahia (UTT, FR); Dominique Gaiti (University of Technology of Troyes, FR); Rana Rahim-Amoud (UTT, FR)

Synchronization and Timing in Packet Networks
Karim Traore (Symmetricom, Inc, US); Kishan Shenoi (Shenoi Consulting, US)
Thursday, 9 December 2010   16:00-17:10 Room: Flamingo

**NGN11: Security and Reliability**
Session Chair: TBA

Optimal Resource Allocation for Disaster Recovery  
Andrea Bianco (Politecnico di Torino, IT)  
Luca Giraudo (Politecnico di Torino, IT)  
David Hay (Columbia University, US)

Skip Finite Automaton: A Content Scanning Engine to Secure Enterprise Networks  
Junchen Jiang (Tsinghua University, CN)  
Yi Tang (Tsinghua University, Beijing, China, CN)  
Yang Xu (Polytechnic Institute of New York University, US)  
Xiaofei Wang (Dublin City University, CN)  
Bin Liu (Tsinghua University, CN)

Characterizing the Scam Hosting Infrastructure  
Ting-Kai Huang (Academia Sinica, TW)  
Nicholas Valler (University of California, Riverside, US)  
Michalis V. Faloutsos (University of California Riverside, US)

Scalable Markov Chain based Algorithm for Fault-Isolation in Autonomic Networks  
Nikolay Tcholtchev (FOKUS Fraunhofer Institute for Open Communication Systems, DE)  
Agnieszka Betkowska Cavalcante (Telcordia Poland, PL)  
Ranganai Chaparadza (Fraunhofer Fokus, DE)

Thursday, 9 December 2010   16:00-17:10 Room: Tequesta

**NGN14: Network Architecture**
Session Chair: TBA

Virtual Network Embedding For Evolving Networks  
Zhiping Cai (National University of Defense Technology, China, CN)  
Fang Liu (National University of Defense Technology, CN)  
Nong Xiao (National University of Defense Technology, CN)  
Qiang Liu (National University of Defense Technology, CN)  
Zhiying Wang (National University of Defense Technology, CN)

On Comparing the Performance of Dynamic Multi-Network Optimizations  
Gerard Hoekstra (Thales Nederland / CWI, NL)  
Rob van der Mei (Centrum voor Wiskunde en Informatica, NL)  
Joost Bosman (Centrum voor Wiskunde en Informatica, NL)

Constant Fidelity Entanglement Flow in Quantum Communication Networks
Design and Evaluation of an Intelligent Rate Controller for Heterogeneous Networks
Jungang Liu (University of Ottawa, CA)
Oliver Yang (University of Ottawa, CA)

Thursday, 9 December 2010  16:00-17:10 Room: Brickell North
**WC11: OFDM III**
Session Chair: TBA

Uplink Inter-Cell Interference Coordination Through Soft Frequency Reuse
Mazin Al-Shalash, F Khafizov (Huawei, USA), Zhijun Chao (Huawei Technologies, China)

Pilot Symbol Assisted Adaptive Modulation for OFDM Systems with Imperfect Channel State Information
Mahdi Karami (University of Alberta, Canada), Ali Olfat (University of Tehran, Iran), Norman Beaulieu (University of Alberta, Canada)

Joint Blind Channel and Control Signal Estimation for OFDM Systems
Emad Alsusa (Manchester University, United Kingdom), Ahmed Elkalagy (University of Manchester, United Kingdom)

Multiple Access Schemes for DCT-Based OFDM: Derivation and Comparison
Stefano Sorrentino (Ericsson AB, Sweden)

Thursday, 9 December 2010  16:00-17:10 Room: Brickell Center
**WC23: Space-time Coding I**
Session Chair: TBA

Distributed Space-Time Coding for Two-Path Successive Relaying
Feng Tian (The Chinese University of Hong Kong, Hong Kong), Wei Zhang (University of New South Wales, Australia), Wing-Kin Ma, PC Ching (The Chinese University of Hong Kong, Hong Kong)

Blind Modulation Identification for MIMO Systems
Kais Hassan (Univ Lille Nord de France, France), Crépin Nsiala Nzéza, Marion Berbineau (Institut National de REcherche sur le Transport et leur Sécurité, France), Iyad Dayoub (Univ Lille Nord de France, France)

Golden Coded Multiple Beamforming
Boyu Li, Ender Ayanoglu (University of California, USA)
A Simple Construction of Full-Rate Quasi-Orthogonal Space-Time Block Codes for 4 and 6 Transmit Antennas
Xiaoyong Guo (Alcatel-Lucent Shanghai Bell, China)

Thursday, 9 December 2010   16:00-17:10 Room: Brickell South
**WC35: Scheduling III**
Session Chair: TBA

Reducing Downlink Signaling Traffic in Wireless Systems Using Mobile-Assisted Scheduling
Reza Moosavi, Erik G. Larsson (Linköping University, Sweden)

Optimal Routing and Scheduling of Deadline-Constrained Traffic Over Lossy Networks
Pablo Soldati, Haibo Zhang, Zhenhua Zou, Mikael Johansson (Royal Institute of Technology, Sweden)

Scheduling under SINR model in Ad hoc Networks with Successive Interference Cancellation
Shaohe Lv (National University of Defense Technology, China)

Differential Signaling of Scheduling Information in Wireless Multiple Access Systems
Reza Moosavi, Jonas Eriksson, Erik G. Larsson (Linköping University, Sweden)

Thursday, 9 December 2010   16:00-17:10 Room: Orchard D
**WC47: Wireless MAC**
Session Chair: TBA

Distributed QoS-aware MAC for Multimedia over Cognitive Radio Networks
Lin Cai, Liu Yongkang, Sherman Shen, Jon Mark (University of Waterloo, Canada)

Design and Analysis of Defection-Proof MAC Protocols Using a Repeated Game Framework
Khoa Phan, Jaeok Park, Mihaela van der Schaar (University of California, Los Angeles, USA)

Parallel Link Rendezvous in Ad Hoc Cognitive Radio Networks
Majid Altamimi, Kshirasagar Naik, Sherman Shen (University of Waterloo, Canada)

Fabio Iannello, Osvaldo Simeone (New Jersey Institute of Technology, USA), Umberto Spagnolini (Politecnico di Milano, Italy)

Thursday, 9 December 2010   16:00-17:10 Room: Riverfront North Hall
**WC11P: Wireless Systems**
On the Distortion Exponent of Partially Closed-Loop Wireless Systems
Sriram Sridharan (University of Texas at Austin, USA), Ozgur Oyman (Intel Corporation, USA)

Cross-layer optimization of adaptive multi-rate wireless networks using truncated Chase combining HARQ
Jaume Ramis, Guillem Femenias (Universitat de les Illes Balears, Spain), Felip Riera-Palou (University of the Balearic Islands, Spain), Loren Carrasco (Universitat de les Illes Balears, Spain)

Inductive Routing based on Dynamic End-to-End Delay
Abdelhamid Mellouk (UPEC, University Paris-Est Creteil Val de Marne, France), Saida Ziane (University Paris Est, France)

Localization of Wireless Sensor Nodes with erroneous anchors via EM algorithm
Mei Leng, Yik-Chung Wu (The University of Hong Kong, Hong Kong)

Robust Beamforming and Power Control for Multiuser Cognitive Radio
Fanggang Wang, Wenbo Wang (Beijing University of Posts and Telecommunications, China)

Joint Space-Time Transmitter-Receiver Beamforming
Zhijie Chen, Athanassios Manikas (Imperial College London, United Kingdom)
Thursday, December 9

17:20 - 18:30

AHSN12: Security I

Room: Tuttle South
An Efficient Authenticated Key Establishment Scheme for Wireless Mesh Networks
Bing He (University of Cincinnati, USA); Saugat Joshi (Univ of Cincinnati, USA); Dharma Agrawal (University of Cincinnati, USA); Dongmei Sun (Beijing Jiaotong University, P.R. China)
Intrusion Detection System for WSN-based Intelligent Transportation Systems
Mounib Khanafer (University of Ottawa, Canada); Mouhcine Guennoun (University of Ottawa, Canada); Hussein Mouftah (University of Ottawa, Canada)
MCC: Mitigating Colluding Collision Attacks in Wireless Sensor Networks
Issa M I Khalil (United Arab Emirates University, UAE)
On Identifying Power Control Performing Sybil Nodes in Wireless Sensor Networks Using RSSI
Satyajayant Misra (New Mexico State University, USA); Sowmya Myneni (New Mexico State University, USA)

AHSN24: Energy Saving and Power Control Protocols III

Room: Tuttle Center
Traffic Scheduling For Energy Sustainable Vehicular Infrastructure
Abdulla Hammad (McMaster University, Canada); Ghada Badawy (Ryerson University, Canada); Terence D. Todd (McMaster University, Canada); Amir A Sayegh (McMaster University, Canada)
HYMN to Improve the Longevity of Wireless Sensor Networks
Ahmed E.A.a. Abdulla (Tohoku University, Japan); Hiroki Nishiyama (Tohoku University, Japan); Nirwan Ansari (NJIT, USA); Yoshiaki Nemoto (Tohoku University, Japan); Nei Kato (Tohoku University, Japan)
Layered Multi-path Power Control in Underwater Sensor Networks
Junfeng Xu (University of Bradford, United Kingdom); Keqiu Li (Dalian University of Technology, P.R. China); Geyong Min (University of Bradford, United Kingdom)
Iterative Beamforming and Power Control for MIMO Ad Hoc Networks
Engin Zeydan (West Virginia University, USA); Didem Kivanc-Tureli (WVU Institute of Technology, USA); Ufuk Tureli (West Virginia University Institute of Technology, USA)

AHSN36: Modelling and Analysis

Room: Jasmine
On the Throughput of Wireless Sensor Networks
Ming-Fei Guo (Shanghai Jiao Tong University, P.R. China); Xinbing Wang (Shanghai Jiaotong University, P.R. China); Min-You Wu (Shanghai JiaoTong University, P.R. China)

Statistical Analysis for Ad Hoc Hierarchical Networks Built on Network Coding-
Shih Yu Chang (National Tsing Hua University of Taiwan, Taiwan); Hsiao-Chun Wu (Louisiana State University, USA); Scott Chih-Hao Huang (City University of Hong Kong, Hong Kong)

Toward Minimum Contention Delay in Body Sensor Networks: a Game Theoretic Perspective
Francesco Chiti (Università degli Studi di Firenze, Italy); Romano Fantacci (University of Florence, Italy); Stefano Lappoli (University of Florence, Italy)

A Three-State Node Reliability Model for Sensor Networks
Mohamed Shazly (University of Alberta, Canada); Ehab S. Elmallah (University of Alberta, Canada); Hosam Aboelfotoh (Kuwait University, Kuwait)

CT17: Source Coding

Room: Hibiscus A
Hybrid Digital-Analog Transmission for the Gaussian One-helper Problem
Iñaki Estella Aguerri (Centre Tecnològic de la Comunicació de Catalunya (CTTC), Spain); Deniz Gunduz (Princeton University, USA)

Adaptive Wyner-Ziv decoding using particle-based belief propagation
Shuang Wang (University of Oklahoma, USA); Lijuan Cui (University of Oklahoma, USA); Samuel Cheng (University of Oklahoma, USA)

New Capacity-Achieving Encoding Schemes for Degraded Binary Broadcast Channels
Uttam Bhat (Arizona State University, USA); Dario Fertonani (Arizona State University, USA); Tolga M. Duman (Arizona State University, USA)

Scalar Quantizers with Uniform Encoders and Channel-Optimized Decoders for M-PSK Schemes
Dengyu Qiao (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, P.R. China); Wai Ho Mow (Hong Kong University of Science and Technology, Hong Kong); Chi-sing Leung (City University of Hong Kong, Hong Kong)

SPC18: OFDM and Multi-carrier Systems III

Room: IBIS
Efficient Cyclic Prefix Reconstruction for Shaped OFDM Systems Without Cyclic Prefix
Ahmed Selim (Trinity College, Dublin, Ireland); Baris Ozgul (Trinity College Dublin, Ireland); Linda Doyle (Trinity College Dublin, Ireland)

Iterative Dual Diagonal LMMSE Channel Estimation in OFDM Systems
Geng Nian (City University of Hong Kong, Hong Kong); Xiaojun Yuan (City University of Hong Kong, Hong Kong); Li Ping (City University of Hong Kong, Hong Kong)

Bayesian Learning for Joint Sparse OFDM Channel Estimation and Data Detection
Ranjitha Prasad (Indian Institute of Science, India); Chandra R Murthy (Indian Institute of Science, India)
Carrier Frequency Offset Estimation for Uplink OFDMA using Partial FFT Demodulation
Srinivas Yerramalli (University of Southern California, USA); Milica Stojanovic (Northeastern University, USA); Urbashi Mitra (University of Southern California, USA)

SPC4P: Topics in Signal Processing for Communications IV (Poster)

Room: Riverfront North Hall
Realizable Forms of Ideal D/C and C/D Conversions for Complex Bandlimited Periodic Signals
Ming-Xian Chang (Nation Cheng Kung University, Taiwan); Ren-Shian Chen (National Cheng-Kung University, Taiwan)
A Reliable Adaptive Multitaper Spectral Detector in Wideband Strong Interference Environments
Jung-Mao Lin (National Tsing Hua University, Taiwan); Hsi-Pin Ma (National Tsing Hua University, Taiwan); Danijela Cabric (University of California Los Angeles, USA)
Two-step low-complexity space-time adaptive processing (STAP)
Man-On Pun (Mitsubishi Electric Research Laboratories, USA); Zafer Sahinoglu (Mitsubishi Electric Research Laboratories, USA); Sagar Shah (Drexel University, USA); Yoshihisa Hara (Mitsubishi Electric, Japan)
Analysis of Vector Precoding at High SNR: Rate Bounds and Ergodic Results
Maitane Barrenechea (Mondragon Unibertsitatea, Spain); Michael Joham (Technische Universität München, Germany); Mikel Mendicute (University of Mondragon, Spain); Wolfgang Utschick (Technische Universität München, Germany)
Multiple-Description Speech Coding using Speech-Polarity Decomposition
Stephen D Voran (Institute for Telecommunication Sciences, USA); Andrew Catellier (Institute for Telecommunication Sciences, USA)

WN12: Routing in Wireless Networks II

Room: Pearson II
Optimal Outage Efficient Routing in Amplify-and-Forward Multi-Hop Wireless Networks
Ramin Babaee (University of Alberta, Canada); Norman C. Beaulieu (University of Alberta, Canada)
Interference-Aware Multipath Routing and Link Rate Control in Multihop Wireless Networks
Maggie Cheng (Missouri University of Science and Technology, USA); Xuan Gong (Missouri University of Science and Technology, USA)
Gateway Selection in Multi-hop Wireless Networks using Route and Link Optimization
Hans Livingstone (Tohoku University, Japan); Hidehisa Nakayama (Tohoku Institute of Technology, Japan); Takeshi Matsuda (Tohoku University, Japan); Sherman Shen (University of Waterloo, Canada); Nei Kato (Tohoku University, Japan)
A novel routing algorithm for mobile pervasive computing
Romano Fantacci (University of Florence, Italy); Daniele Tarchi (University of Florence, Italy); Andrea Tassi (University of Florence, Italy)

WN24: Wireless Multimedia Services

Room: Gautier
Effect of varying the intra-frame packet burstiness on the performance of wireless video streaming
Guilherme D. G. Jaime (Federal University of Rio de Janeiro, Brazil); Rosa Maria Meri Leão (Federal University of Rio de Janeiro, Brazil); Edmundo de Souza e Silva (Federal University of Rio de Janeiro, Brazil); José Roberto B. de Marca (PUC/Rio, Brazil)
Video Streaming with PCA and Hard vs Soft DRP
Rukhsana Ruby (UVic, Canada); Jianping Pan (University of Victoria, Canada)
Power-Aware Scalable Video Multicast in 4G Wireless Systems
Ya-Ju Yu (National Taiwan University, Taiwan); Pi-Cheng Hsu (Academia Sinica, Taiwan); Ai-Chun Pang (National Taiwan University, Taiwan); Chi-Ping Lai (National Taiwan University, Taiwan)
Age Invariant Regime for Multi-Source Content Update in Mobile Opportunistic Networks
Sungon Kim (North Carolina State University, USA); Do Young Eun (North Carolina State University, USA)

Thursday, 9 December 2010, 17:20-18:30   Room: Pearson I
CIS15 Physical Layer and Sensor Security
Session Chair: Shengli Fu

Physical Layer Error Correction Based Cipher
Oluwayomi Adamo, Shengli Fu, Murali Varanasi (University of North Texas, US)

Augmenting Bit-Level Network Security Using Physical Layer RF DNA Fingerprinting
Mckay Williams, Michael Temple, Donald Reising (AF Institute of Technology, US)

A threat-aware routing algorithm for maximum physical-layer path survivability
Shengli Yuan (University of Houston - Downtown, US); Balaji Raghavachari (University of Texas at Dallas, US); Lei Chen (Sam Houston State University, US)

TIme-Based Dynamic Keying and En-route Filtering (TICK) for Wireless Sensor Networks
Arif Uluagac, Raheem Beyah, John Copeland (Georgia Institute of Technology, US)
Wednesday, 9 December 2010  17:20-18:30  Room: Merrick II

**CSSMA12: Performance Evaluation**
Session Chair: TBD ()

Network-based model for video packet importance considering both compression artifacts and packet losses
Yuxia Wang (UCSD, USA)
Ting-Lan Lin (UCSD, USA)
Pamela Cosman (University of California, San Diego, USA)

Improving Performance of Multimedia Applications in Distributed Collaborative Environment
Fariza Sabrina (CSIRO, Australia)

Measurements of Messaging Load in a P2P Overlay Network under Churn
Otso Kassinen (University of Oulu, Finland)
Erkki Harjula (University of Oulu, Finland)
Mika Ylianttila (University of Oulu, Finland)

Distortion Analysis of Wyner-Ziv Distributed Video Coding
Siyuan Xiang (University of Victoria, Canada)
Lin Cai (University of Victoria, Canada)

Wednesday, 9 December 2010  17:20-18:30  Room: Merrick I

**CSSMA15: System Prediction and Analysis**
Session Chair: TBD ()

Predicting critical intradomain routing events
Geneviève Amélie Medem (University of Pierre et Marie Curie, France)
Renata Teixeira (CNRS and Université Pierre et Marie Curie, France)
Nicolas Usunier (Lip6 Laboratory, France)

Failure Prediction Based on Multi-Scale Frequent Anomalous Behavior Identification in Support of Autonomic Networks
Ala I Al-Fuqaha (Western Michigan University, USA)

Feedback-free Early VoIP Quality Adaptation Scheme in Next Generation Networks
Is-Haka Mkwawa (University of Plymouth, UK)
Emmanuel Jammeh (University of Plymouth, UK)
Lingfen Sun (University of Plymouth, UK)
Emmanuel Ifeachor (University of Plymouth, UK)

Online Traffic Engineering with Limited Flow Disruption
Khaled Harfoush (North Carolina State University, USA)
Huan Luo (North Carolina State University, USA)

Thursday, 9 December 2010  17:20-18:30  Room: Riverfront North Hall

**CSSMA4P: (Poster) Network and Service Management and Provisioning**
Session Chair: TBD

CellSense: A Probabilistic RSSI-based GSM Positioning System
Moustafa Youssef (Nile University, Egypt)
Mohamed Ibrahim (Nile University, Egypt)

On Tradeoffs between Cross-ISP P2P Traffic and P2P Streaming Performance
Peng Yang (University of Nebraska - Lincoln, USA)
Lisong Xu (University of Nebraska-Lincoln, USA)

Thursday, 9 December 2010  17:20-18:30  Room: Orchard AB

**CQRM12: Reliability**
Session Chair: TBA

Providing Reliable Data Services In Hybrid WSNs with Transmit-only Nodes
Jia Zhao (University at Buffalo, US)
Raghuram Sudhaakar (University at Buffalo, US)
Chunming Qiao (State University of New York at Buffalo, US)

Finding maximum reliable path under multiple link failures and node failures
Shengli Yuan (University of Houston - Downtown, US)
Balaji Raghavachari (University of Texas at Dallas, US)

Survivable Virtual Infrastructure Mapping in a Federated Computing and Networking System under Single Regional Failures
Hongfang Yu (University of Electronic Science and Technology of China, CN)
Chunming Qiao (State University of New York at Buffalo, US)
Vishal Anand (State University of New York at Brockport, US)
Xin Liu (Brookhaven National Laboratory, US)
Hao Di (University of Electronic Science and Technology of China, CN)
Gang Sun (University of Electronic Science and Technology of China, CN)

Multicanonical Estimation of Outage Probabilities in MIMO Channels
Pushpika Wijesinghe (University of Western Sydney, AU)
Upul Gunawardana (University of Western Sydney, AU)
Ranjith Liyanapathirana (University of Western Sydney, AU)

Thursday, 9 December 2010  17:20-18:30  Room: Orchard C

**CQRM22: Scheduling II**
Session Chair: TBA
A Performance Guarantee for Maximal Schedulers in Sensor Networks with Cooperative Relays  
Huijiang Li (Rensselaer Polytechnic Institute, US)  
Biplab Sikdar (Rensselaer Polytechnic Institute, US)

Heuristic-based request scheduling subject to a percentile response time SLA in a distributed cloud  
Keerthana Boloor (North Carolina State University, US)  
Rada Chirkova (North Carolina State University, US)  
Timo Salo (IBM Software Group, US)  
Yannis Viniotis (North Carolina State University, US)

Optimal Scheduling for Network Coding: Delay v.s. Efficiency  
Jingyao Zhang (Tsinghua University, CN)  
Pingyi Fan (Tsinghua University, CN)

Delay-Sensitive Retransmission Method based on Network Coding in IEEE 802.11 Wireless LANs  
Yosuke Tanigawa (Osaka Prefecture University, JP)  
Jong-Ok Kim (Korea University, KR)  
Hideki Tode (Osaka Prefecture University, JP)

Thursday, 9 December 2010   17:20-18:30   Room: Riverfront North Hall  
**CQRM4P: Reliability**  
Session Chair: TBA

Enhanced Protection Schemes to Guarantee Consistent Filtering Database in Ethernet Rings  
Kwang Koog Lee (University of Science and Technology, KR)  
Chang Kyu Lee (ETRI, KR)  
Jeong-dong Ryoo (ETRI, KR)

Error Recovery Framework Design for the IPTV Networks  
Aytac Azgin (Georgia Institute of Technology, US)

Simple Protocol Enhancements of Rapid Spanning Tree Protocol over Ring Topologies  
Mario Marchese (DIST- University of Genoa, IT)  
Maurizio Mongelli (University of Genoa, IT)  
Giancarlo Portomauro (CNIT - University of Genoa, IT)

How precise should localization be? A quantitative analysis of the impact of delay and mobility on reliability of location information  
Rasmus Olsen (Aalborg University, DK)  
Joao Figueiras (Aalborg University, DK)
Jakob Rasmussen (Aalborg University, DK)
Hans-Peter Schwefel (Forschungszentrum Telekommunikation Wien, AT)

Formulation of a New Constraint for Admitting Flows in a Multi-Rate Wireless Ad Hoc Networks
Junmei Qu (Tianjin University, CN)
Zenghua Zhao (Tianjin University, CN)
Oliver Yang (University of Ottawa, CA)
Lianfang Zhang (Tianjin University, CN)
Yantai Shu (Tianjin University, CN)

A Graph-theoretic QoS-aware Vulnerability Assessment for Network Topologies
Ying Xuan (University of Florida, US)
Yilin Shen (University of Florida, US)
My Thai (University of Florida, US)

Thursday, 9 December 2010  17:20-18:30   Room: Gardenia
SAC12: Cognitive Radio: Resource Allocation II
Session Chair: TBA

Dynamic Spectrum Access with QoS Provisioning in Cognitive Radio Networks
Chunyan An (Beijing University of Posts and Telecommunications, CN), Hong Ji (Beijing University of Posts and Telecommunications, CN), Pengbo Si (Beijing University of Technology, CN)

Resource Allocation with Load Balancing for Cognitive Radio Networks
Huahui Wang (Michigan State University, US), Jian Ren (Michigan State University, US), Tongtong Li (Michigan State University, US)

Distributed Spectrum Access in Cognitive Radio Network Employing Rateless Codes
Shaolei Chen (Zhejiang University, CN), Zhaoyang Zhang (Zhejiang University, CN), Xiaoming Chen (Zhejiang University, CN), Kedi Wu (Zhejiang University, CN)

Dynamic Channel Selection in Cognitive Radio Network with Channel Heterogeneity
Fen Hou (University of Waterloo, CA), Jianwei Huang (The Chinese University of Hong Kong, HK)

Thursday, 9 December 2010  17:20-18:30   Room: Hibiscus B
SAC15: Signal Processing on Data Storage
Session Chair: Kui Cai (Data Storage Institute, Singapore)

Performance Evaluation of Iterative Channel Codes for Digital Data Storage on Microfilm
Florian Pflug (Technische Universität Braunschweig, Germany); Christoph Voges (Technische Universität Braunschweig, Germany); Tim Fingscheidt (Technische Universität Braunschweig, Germany)
Symmetric Allocations for Distributed Storage
Derek Leong (California Institute of Technology, USA); Alex Dimakis (University of Southern California, USA); Tracey Ho (California Institute of Technology, USA)
Performance evaluation for ML sequence detection in ISI channels with Gauss Markov Noise
Naveen Kumar (Iowa State University, USA); Aditya Ramamoorthy (Iowa State University, USA); Murti Salapaka (Iowa State University, USA)

Thursday, 9 December 2010 17:20-18:30 Room: Tuttle North
SAC17: Access and Home Networks
Session Chair: TBA

Autonomous Spectrum Balancing using Multiple Reference Lines for Digital Subscriber Lines
Christopher Leung (McGill University, Canada); Sean Huberman (McGill University, Canada); Tho Le-Ngoc (McGill University, Canada)
An Algorithm for Improved Stability of DSL Networks using Spectrum Balancing
Marcio Monteiro (Universidade Federal do Pará, Brazil); Ana Claudia Gomes (Federal University of Para - UFPA, Brazil); Neiva da S. F. Lindqvist (Lunds Tekniska Högskola, Sweden); Boris Dortschy (Ericsson AB, Sweden); Aldebaro Klautau (Universidade Federal do Para, Brazil)
Novel Sleep Control for EPON Optical Line Terminal employing Layer-2 Switch Functions
Satoshi Shimazu (NTT Corporation, Japan); Jun-ichi Kani (NTT, Japan); Naoto Yoshimoto (NTT Access Network Service Systems Laboratories, Japan); Hisaya Hadama (NTT, Japan)
Closed Access OFDMA Femtocells under Timing Misalignment
Poramate Tarasak (Institute for Infocomm Research, Singapore); Tony Q. S. Quek (Institute for Infocomm Research, Singapore); Francois Chin (Institue for InfoComm Research, Singapore)

Thursday, 9 December 2010 17:20-18:30 Room: Riverfront North Hall
SAC4P: Cognitive Radio Technology II
Session Chair: TBA

Hybrid Coherent/Energy Detection for Cognitive Radio Networks
Farzad Moghimi (University of British Columbia, CA), Robert Schober (University of British Columbia, CA), Ranjan Mallik (Indian Institute of Technology - Delhi, IN)
Stochastic Resonance Noise Enhanced Spectrum Sensing in Cognitive Radio Networks
Wei Chen (University of Electronic Science and Technology of China, CN), Jun Wang (University of Electronic Science and Technology of China, CN), Husheng Li
Cyclostationarity-Based Detection of LTE OFDM Signals for Cognitive Radio Systems
Ala'a Al-Habashna (Memorial University of Newfoundland, CA), Octavia Dobre (Memorial University of Newfoundland, CA), Ramachandran Venkatesan (Memorial University of Newfoundland, CA), Dimitrie Popescu (Old Dominion University, US)

Distributed Resource Allocation for Cognitive Radio Ad-hoc Networks with Spectrum-Sharing Constraints
Duy Ngo (McGill University, CA), Tho Le-Ngoc (McGill University, CA)

Distributed Heuristics for Allocating Spectrum in CR Ad hoc Networks
Vijay Sathyanarayana Rao (Delft University of Technology, NL), R Venkatesha Prasad (TUDelft -- Delft University of Technology, NL), Chetan Yadati (TU Delft, NL), Ignas Niemegeers (TU Delft, NL)

On Random Dynamic Spectrum Access for Cognitive Radio Networks
Chunsheng Xin (Norfolk State University, US), Min Song (Old Dominion University, US), Liangping Ma (InterDigital Communications, Inc., US), George Hsieh (Norfolk State University, US)

Thursday, 9 December 2010  17:20-18:30 Room: Flamingo
NGN12: Network Measurement
Session Chair: TBA

An Efficient Approach to Per-Flow State Tracking for High-Speed Networks
Brad Whitehead (Carleton University, CA)
Chung-Horng Lung (Carleton University, CA)
Peter Rabinovitch (RIM, CA)

Towards Measuring the Deployment Information of Different TCP Congestion Control Algorithms
Peng Yang (University of Nebraska - Lincoln, US)
Wen Luo (UNL, US)
Lisong Xu (University of Nebraska-Lincoln, US)

Leveraging Correlations Between Capacity and Available Bandwidth To Scale Network Monitoring
Praveen Yalagandula (HP Labs, US)
Sung-Ju Lee (HP Labs, US); Puneet Sharma (HP Labs Palo Alto, US)
Sujata Banerjee (Hewlett-Packard Laboratories, US)

Measuring the Effectiveness of Hierarchical Address Assignment
Yinfang Zhuang (University of Kentucky, US)
Ken Calvert (University of Kentucky, US)
NGN15: Content Delivery
Session Chair: TBA

Popularity-Aware Caching Algorithm for Video-on-Demand Delivery over Broadband Access Networks
Chamil Jayasundara (National ICT Australia, AU)
Ampalavanapillai Nirmalathas (The University of Melbourne, AU)
Nishaanthan Nadarajah (NICTA, AU)
Elaine Wong (ARC CUBIN, National ICT Australia, AU)

Storing and Replication in Topic-Based Publish/Subscribe Networks
Vasilis Sourlas (University of Thessaly, GR)
Paris Flegkas (University of Thessaly, GR)
Georgios S. Paschos (CERTH - ITI, Center for Research and Technology, Greece., GR);
Dimitrios Katsaros (University of Thessaly, GR)
Leandros Tassiulas (University of Thessaly, GR)

Web-IMS convergence architecture and prototype
Hiroki Baba (NTT Service Integration Laboratories, JP)
Naoki Takaya (NTT Service Integration Labs., JP)
Ichiro Inoue (NTT, JP)
Akira Kurokawa (NTT Network Service Systems Laboratories., JP)
Linda Chong Chauvot (Orange Labs, FR)
Michel Le Clec'h (Orange labs, FR)
Benoit Fourestié (Orange Labs, FR)
Frederique Forestier Husson (France Telecom, FR)
Nicolas Edel (Orange Labs, FR)

An Optimal Solution to the Distributed Data Retrieval Problem
Mohammad Asad Rehman Chaudhry (Texas A&M University, US)
Zakia Asad (Texas A&M University, US)
Alex Sprintson (Texas A&M University, US)

WC12: OFDM IV
Session Chair: TBA

Amplify-and-Forward Cooperative Diversity for BICM-OFDM Systems
Toufiqul Islam, Robert Schober (University of British Columbia, Canada), Ranjan Mallik (Indian Institute of Technology - Delhi, India), Vijay Bhargava (University of British Columbia, Canada)

Comparison of Fractional Frequency Reuse Approaches in the OFDMA Cellular Downlink
A Decentralized Subchannel Allocation Scheme with Inter-cell Interference Coordination (ICIC) for Multi-cell OFDMA Systems
Joannis Frainmis, Vasileios Papoutsis (University of Patras, Greece), Stavros Kotsopoulos (Wireless Telecommunications Laboratory, Greece)

Optimal Joint Water-filling for OFDM Systems with Multiple Cooperative Power Sources
Bing Luo, Qimei Cui (Beijing University of Posts and Telecommunications, China)

Thursday, 9 December 2010   17:20-18:30 Room: Brickell Center

**WC24: Space-time Coding II**
Session Chair: TBA

Multi-Antenna Multicasting with Opportunistic Multicast Scheduling and Space-Time Transmission
Tze-Ping Low (University of Southern California, USA), Po-Chun Fang, Yao-Win Peter Hong (National Tsing Hua University, Tai Wan), C.-C. Jay Kuo (University of Southern California, USA)

Correction of the CFO in OFDM Relay-based Space-Time Codes
Farrokh Etezadi (Concordia University, Canada), Leszek Szczecinski (INRS-EMT, Canada), Ali Ghrayeb (Concordia University, Canada)

Differential Cooperative Communications with Space-Time Network Coding
Zhenzhen Gao (University of Maryland, USA), Hung-Quoc Lai (US Army RDECOM CERDEC, USA), K. J. Ray Liu (University of Maryland, USA)

General Construction Method of Bounded Delay-Tolerant Space Time Block Codes
Michel Nahas, Ahmed Saadani (Orange Labs, France), Ghaya Rekaya-Ben Othman (TELECOM ParisTech, France)

Thursday, 9 December 2010   17:20-18:30 Room: Brickell South

**WC36: Transceiver Design**
Session Chair: TBA

A New Receiver Design for Single-Carrier Frequency Domain Equalization in Broadband Cooperative Wireless Networks
Homa Eghbali, Sami Muhaidat (Simon Fraser University, Canada), Naofal Al-Dhahir (University of Texas at Dallas, USA)

Reduced Complexity Sphere Decoder for Spatial Modulation Detection Receivers
Abdelhamid Younis (The University of Edinburgh, United Kingdom), Raed Mesleh (Jacobs University Bremen, German), Harald Haas (The University of Edinburgh, United Kingdom)
A New Self-Calibration Method for Transmitter and Receiver Radio Impairments in Direct-Conversion Architecture
Chen-Jui Hsu (National Chiao Tung University, Tai Wan), Wern-Ho Sheen (Chaoyang University of Technology, Tai Wan)

New Identification Sequence Analysis for Multiple Transmitters Subject to Arbitrary Topologies
Xiaoyu Feng, Hsiao-Chun Wu (Louisiana State University, USA), Yiyan Wu (Communications Research Centre, Canada)

Thursday, 9 December 2010  17:20-18:30 Room: Orchard D
**WC48: UWB**
Session Chair: TBA

Wideband Sequential Spectrum Sensing with Varying Thresholds
Kasra Haghighi, Arne Svensson, Erik Agrell (Chalmers University of Technology, Sweden)

Bi-directional Cooperative Relays for Transmitted Reference Pulse Cluster UWB Networks
Xue Dong, Xiaodai Dong (University of Victoria, Canada)

An Analytical Framework for Assessing Coding Performance in Multi-User IR-UWB Systems
Hua Shao, Norman Beaulieu (University of Alberta, Canada)

Energy Detection of Wideband and Ultra Wideband PPM
Shahzad Gishkori, Geert Leus (Delft University of Technology, Netherlands), Hakan Delic (Bogazici University, Turkey)