IEEE Globecom 2009 Symposia Program

Thursday, Dec 3

10:15 - 12:15

AHSN-18: Deployment Strategies
Chair: Jian Tang (Montana State University, USA), Bala Natarajan (Kansas State University, USA)
Room: 05

1. **Strong Barrier Coverage with Directional Sensors**
   Li Zhang (Montana State University, USA); Jian Tang (Montana State University, USA); Weiyi Zhang (North Dakota State University, USA)

2. **Fundamental Results on Target Coverage Problem in Wireless Sensor Networks**
   Yu Gu (USTC, P.R. China); Yusheng Ji (National Institute of Informatics, Japan); Baohua Zhao (Department of Computer Science in the University of Science and Technology of China, P.R. China)

3. **Sensor Deployment for Collaborative Target Detection in the Presence of Obstacles**
   Tai-Lin Chin (National Taiwan University of Science and Technology, Taiwan)

4. **Iterative Node Deployment in an Unknown Environment**
   Assane Gueye (University of California, Berkeley, USA); Sinem Ergen (University of California, Berkeley, USA)

5. **Optimal Sensor Deployment for Value-Fusion Based Detection**
   Ahmad Ababnah (Kansas State University, USA); Bala Natarajan (Kansas State University, USA)

6. **A Lightweight Scalable Iterative Positioning Algorithm for Context-Aware Wireless Networks**
   Azzedine Boukerche (Univ. of Ottawa, Canada); Anahit Martirosyan (University of Ottawa, Canada); Richard Pazzi (University of Ottawa, Canada); Zhenxia Zhang (University of Ottawa, Canada); Yonglin Ren (SITE, University of Ottawa, Canada)

AHSN-19: Localization I
Chair: Richard Martin (Rutgers University, USA)
Room: 06

1. **A Novel Non-iterative Localization Solution**
   Junlin Yan (Delft University of Technology, The Netherlands); Christian Tiberius (Delft University of Technology, The Netherlands); Giovanni Belluisci (Delft University of Technology, The Netherlands); Gerard Janssen (Delft University of Technology, The Netherlands)

2. **Lightweight Object Localization with a Single Camera in Wireless Multimedia Sensor Networks**
   Hakan Oztarak (Middle East Technical University, Turkey); Kemal Akkaya (Southern Illinois University Carbondale, USA); Adnan Yazici (Middle East Technical University, Turkey)

3. **Bias-Correction In Localization Algorithms**
   Yiming Ji (The Australian National University, Australia); Changbin Yu (The Australian National University, Australia); Brian Anderson (Australian National University, Australia)

4. **Sequential Greedy Localization in Wireless Sensor Networks With Inaccurate Anchor Positions**
   Qingjiang Shi (Shanghai Jiao Tong University, P.R. China)
5. **Restarting particle filters: an approach to improve the performance of dynamic indoor localization**  
Begumhan Turgut (Rutgers University, USA); Richard Martin (Rutgers University, USA)

6. **Understanding and Solving Flip-Ambiguity in Network Localization via Semidefinite Programming**  
Stefano Severi (University of Bologna, Italy); Giuseppe Destino (University of Oulu, Finland); Giuseppe Abreu (CWC, University of Oulu, Finland); Davide Dardari (University of Bologna, Italy)

**CISS-07: Wireless Network Security**  
Chair: Mieso Denko (University of Guelph, Canada)  
Room: 16

1. **Implementation and Benchmarking of Hardware Accelerators for Ciphering in LTE Terminals**  
Sebastian Hessel (Ruhr-Universität Bochum, Germany); David Szczesny (Ruhr-Universität Bochum, Germany); Nils Lohmann (Ruhr-Universität Bochum, Germany); Attila Bilgic (Ruhr-Universität Bochum, Germany); Josef Hausner (Infineon Technologies, Germany)

2. **Modeling Worm Propagation through Hidden Wireless Connections**  
Bo Gu (University of Alabama, USA); Xiaoyan Hong (University of Alabama, USA); Pu Wang (University of Alabama, USA)

3. **Lightweight Jammer Localization in Wireless Networks: System Design and Implementation**  
Konstantinos Pelechrinis (University of California Riverside, USA); Iordanis Koutsopoulos (UTH, Greece); Ioannis Broustis (University of California, Riverside, USA); Srikanth Krishnamurthy (University of California, Riverside, USA)

4. **Attacking WiFi Localization with Directional Antennas**  
Kevin Bauer (University of Colorado, USA); Damon McCoy (University of Colorado, USA); Eric Anderson (University of Colorado, USA); Markus Breitenbach (University of Colorado, USA); Greg Grudic (University of Colorado, USA); Dirk Grunwald (University of Colorado, USA); Douglas Sicker (University of Colorado, USA)

5. **Building Femtocell More Secure with Improved Proxy Signature**  
Chan-Kyu Han (Sungkyunkwan University, Korea); Hyoung-Kee Choi (Sungkyunkwan University, Korea)

6. **A Trust Management Scheme for Enhancing Security in Pervasive Wireless Networks**  
Mieso Denko (University of Guelph, Canada); Isaac Woungang (Ryerson University, Canada); Joel Rodrigues (University of Beira Interior, Portugal); Han-Chieh Chao (National Ilan University, Taiwan)

**CQPRM-09: Quality in Multimedia Networks**  
Chair: Harry Skianis (University of the Aegean, Greece)  
Room: 17

1. **On Characterizing PPStream: Measurement and Analysis of P2P IPTV under Large-Scale Broadcasting**  
Wei Liang (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Jingping Bi (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Rong Wu (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Zhenyu Li (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Chen Li (Beijing University of Post And Telecommunications, P.R. China)

2. **A Fast Reroute Scheme for IP Multicast**  
Adrian Tam (New York University, USA); Kang Xi (Polytechnic Institute of New York University, USA); H. Jonathan Chao (Polytechnic Institute of New York University, USA)

3. **Evaluating QoE for streaming video in real-time**  
Mukundan Iyengar (University of Central Florida, USA); Mainak Chatterjee (University of Central Florida, USA); Siddhartha Chattopadhyay (University of Georgia, USA)
4. **Evaluating Peer Churn Effects on P2P-based Video-on-Demand Services**  
   Giovanni Branca (University of Cagliari, Italy); Thomas Schierl (Fraunhofer Institute for Telecommunications - Heinrich-Hertz-Institute, Germany); Luigi Atzori (University of Cagliari, Italy)

5. **Priority based dynamic rate control for VoIP traffic**  
   Fariza Sabrina (CSIRO, Australia)

6. **Maximizing QoE of Interactive Services with Audio-Video Transmission over Bandwidth Guaranteed IP Networks**  
   Shuji Tasaka (Nagoya Institute of Technology, Japan); Norihito Misaki (Nagoya Institute of Technology, Japan)

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**CQPRM-12: Topics in Communications QoS, Reliability and Performance Modeling I (Poster)**  
Chair: Hajime Nakamura (KDDI R&D Laboratories Inc., Japan)  
Room: Poster Area

1. **A logic distance-based method for deploying probing sources in the topology discovery**  
   Xin Zou (Beihang University, P.R. China); Qiao Zhong Liang (Beihang University, P.R. China); Gang Zhou (State Key Lab. of Software Develop Environment Beihang University, P.R. China); Ke Xu (State Key Lab. of Software Develop Environment Beihang University, P.R. China)

2. **Hybrid Traffic Classification Approach Based on Decision Tree**  
   Ali Ghorbani (University of New Brunswick, Canada); Wei Lu (University of New Brunswick, University of Victoria, Canada)

3. **On the role of flows and sessions in Internet traffic**  
   Fabio Ricciato (Università del Salento, Italy); Angelo Coluccia (Università del Salento, Italy); Alessandro D'Alconzo (Telecommunications Research Center Vienna (ftw.), Austria); Darryl Veitch (University of Melbourne, Australia); Pierre Borgnat (ENS Lyon, France); Patrice Abry (Ecole Normale Superieure, Lyon, France)

4. **An Efficient and Loss Tolerant Method for Measuring Available Bandwidth**  
   Victor Vfajardo (Toshiba America Research Inc, USA); Gautum Parmar (Toshiba, USA); Yuu-Heng Cheng (Telcordia, USA); Yoshihiro Ohba (TARI, USA)

5. **Performance Modelling and Analysis of Interconnection Networks with Spatio-Temporal Bursty Traffic**  
   Geyong Min (University of Bradford, United Kingdom); Yulei Wu (University of Bradford, United Kingdom); Mohamed Ould-Khaoua (Sultan Qaboos University, Oman); Hao Yin (Tsinghua University, P.R. China)

6. **Performance Analysis of Shortest Path Bridging Control Protocols**  
   Janos Farkas (Ericsson, Hungary); Zoltan Arato (Ericsson, Hungary)

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**CTS-08: Low Density Parity Check Codes**  
Chair: TBD  
Room: 12

1. **Growth Rate of the Weight Distribution of Irregular Doubly-Generalized LDPC Codes: Efficient and Exact Evaluation**  
   Mark Flanagan (University College Dublin, Ireland); Enrico Paolini (DEIS, WiLAB, Univ. of Bologna, Italy); Marco Chiani (University of Bologna, Italy); Marc Fossorier (Etis Ensea, France)

2. **Ensemble Pseudocodeword Weight Enumerators for Protograph-Based Generalized LDPC Codes**  
   Shadi Abu-Surra (University of Arizona, USA); Dariush Divsalar (Jet Propulsion Laboratory, USA); William Ryan (University of Arizona, USA)
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<td>Ming Gu (Michigan State University, USA); Kiran Misra (Michigan State University, USA); Hayder Radha (Michigan State University, USA); Shantanu Chakrabartty (Michigan State University, USA)</td>
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<th>Pivoting Algorithms for Maximum Likelihood Decoding of LDPC Codes over Erasure Channels</th>
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<td>Enrico Paolini (DEIS, WiLAB, Univ. of Bologna, Italy); Balazs Matuz (DLR, Germany); Gianluigi Liva (DLR (German Aerospace Center), Germany); Marco Chiani (University of Bologna, Italy)</td>
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<th>Undetected Errors in Quasi-cyclic LDPC Codes Caused by Receiver Symbol Slips</th>
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<td>Alex Kaiser (University of California Berkeley, USA); Sam Dolinar (Jet Propulsion Laboratory, USA); Michael Cheng (Jet Propulsion Laboratory, USA)</td>
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<th>6.</th>
<th>A Relaxed Half-Stochastic Iterative Decoder for LDPC Codes</th>
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<td>François Leduc-Primeau (McGill University, Canada); Saied Hemati (McGill University, Canada); Warren Gross (McGill University, Canada); Shie Mannor (McGill University, Canada)</td>
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**CTS-09: Interference and Relay Networks**  
Chair: TBD  
Room: 13

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<th>Capacity Outer Bounds for the Cognitive Z Channel</th>
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<td>Yi Cao (Syracuse University, USA); Biao Chen (Syracuse University, USA)</td>
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<th>2.</th>
<th>Coverage in Tiered Cellular Networks with Spatial Diversity</th>
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<tr>
<td>Vikram Chandrasekhar (The University of Texas at Austin, USA); Marios Kountouris (SUPELEC, France); Jeffrey Andrews (The University of Texas at Austin, USA)</td>
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<th>Delay-Throughput Tradeoff for Supportive Two-Tier Networks: A Static Primary Tier vs. a Mobile Secondary Tier</th>
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<td>Long Gao (Texas A&amp;M University, USA); Rui Zhang (Institute of Infocomm Research, Singapore); Shuguang Cui (Texas A&amp;M University, USA)</td>
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<th>Optimal Scheduling in Interference Limited Fading Wireless Networks</th>
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<td>Sastry Kompella (Naval Research Laboratory, USA); Hanif Sherali (Virginia Tech, USA); Anthony Ephremides (University of Maryland at College Park, USA)</td>
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<th>Coding Strategies for Bidirectional Relaying for Arbitrarily Varying Channels</th>
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<td>Rafael Wyrembelski (Technical University of Berlin, Germany); Igor Bjelakovic (Berlin University of Technology, Germany); Holger Boche (Technical University of Berlin, Germany)</td>
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<th>Diversity and Multiplexing of Opportunistic Shared Relay Channel and the X-Relay Channel</th>
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<td>Mohamed Abouelseoud (University of Texas at Dallas, USA); Aria Nosratinia (University of Texas, Dallas, USA)</td>
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**NGNI-07: Routing & Switching - IV**  
Chair: TBD  
Room: 11

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<th>Scalable Support of Interdomain Routes in a Single AS</th>
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<td>Cristel Pelsser (IIJ, Japan); Akeo Masuda (NTT, Japan); Kohei Shiomoto (NTT, Japan)</td>
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<th>Scalable multi-region routing at Inter-Domain Level</th>
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<td>Pedro Amaral (Universidade Nova de Lisboa, Portugal); Francisco Ganhão (Universidade Nova de Lisboa, Portugal); Claudio Assunção (Universidade Nova de Lisboa, Portugal); Luis Bernardo (Universidade Nova de Lisboa, Portugal); Paulo Pinto (Universidade Nova de Lisboa, Portugal)</td>
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## ONS-07: Traffic Grooming and Network Design
Chair: Xiaojun Cao (Georgia State University, USA)
Room: 14

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<td>Distributed Grooming in Multi-Domain IP/MPLS-DWDM Networks</td>
<td>Qing Liu (Oak Ridge National Laboratory, USA); Tannous Frangieh (Virginia Tech, USA); Feng Xu (University of New Mexico, USA); Chongyang Xie (University of New Mexico, USA); Nasir Ghani (University of New Mexico, USA); Thomas Lehman (USC/ISI, USA); Chin Guok (Energy Sciences Network, USA)</td>
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<td>2</td>
<td>Design and Provisioning of WDM Networks for Many-to-Many Traffic Grooming</td>
<td>Mohammad Saleh (Iowa State University, USA); Ahmed Kamal (Iowa State University, USA)</td>
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<td>REPARE: Regenerator Placement and Routing Establishment in Translucent Networks</td>
<td>Weiyi Zhang (North Dakota State University, USA); Jian Tang (Montana State University, USA); Kendall Nygard (North Dakota State University, USA); Chonggang Wang (NEC Laboratories America, USA)</td>
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<td>Non-uniform Waveband Switching in Multi-granular Optical Networks</td>
<td>Yang Wang (Georgia State University, USA); Xiaojun Cao (Georgia State University, USA)</td>
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<td>On the Efficiency of a Game Theoretic Approach to Sparse Regenerator Placement in WDM Networks</td>
<td>Diego Lucerna (Politecnico di Milano, Italy); Nicola Gatti (Politecnico di Milano, Italy); Guido Maier (Politecnico di Milano, Italy); Achille Pattavina (Politecnico di Milano, Italy)</td>
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<td>6</td>
<td>Power Efficient Traffic Grooming in Optical WDM Networks</td>
<td>Emre Yetginer (Bilkent University, Turkey); George Rouskas (North Carolina State University, USA)</td>
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## SAC(CRN)-07: Cooperation in Cognitive Radio Networks-1
Chair: Saeed Ghassemzadeh (AT&T Labs - Research, USA)
Room: 10

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<td>Cooperative Spectrum Sensing Using Free Probability Theory</td>
<td>Lei Wang (Nanjing University of Posts and Telecommunications, P.R. China); Baoyu Zheng (Nanjing Univ. of Posts and Telecommunications, P.R. China); JingWu Cui (Nanjing University of Posts And Telecomm, P.R. China); Haie Dou (Southeast University, P.R. China)</td>
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2. **Efficient Cooperative Spectrum Sensing in Cognitive Radio**  
   Dan Wang (University of Minnesota, USA); Ahmed Tewfik (Univ. of Minnesota, USA)

3. **Collaborative Quickest Spectrum Sensing Via Random Broadcast in Cognitive Radio Systems**  
   Husheng Li (University of Tennessee, USA); Huaiyu Dai (NC State University, USA); Chengzhi Li (North Carolina State University, USA)

4. **Cooperative Spectrum Sensing Scheme in Perfect and Imperfect Control Channels**  
   Azizollah Jamshidi (Shiraz University, Iran); Amir Rezagholi (Shiraz University, Iran)

5. **Information Sharing in Spectrum Auction for Dynamic Spectrum Access**  
   Xinbing Wang (Shanghai Jiaotong University, P.R. China); Athanasios Vasilakos (University of Western Macedonia, Greece)

6. **Spectrum coexistence in cognitive wireless access networks**  
   Tao Chen (VTT, Finland); Honggang Zhang (Zhejiang University, P.R. China); Marko Högby (VTT Technical Research Centre of Finland, Finland); Marcos Katz (VTT Technical Research Centre of Finland, Finland)

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**SAC(ET)-02: Power-Line Communications and Technologies for Access Networks**  
Chair: Lutz Lampe (University of British Columbia, Canada)  
Room: 07

1. **A Unified Structure for Multi-Carrier Modulations in Power-Line Communications**  
   Hao Lin (France Telecom, France); Pierre Siohan (France Telecom, France)

2. **An Adaptive Procedure for Impulsive Noise Mitigation over Power Line Channels**  
   Gaetan Ndo (France Telecom, France); Pierre Siohan (France Telecom, France); Marie-Helene Hamon (France Telecom, France)

3. **Inter-packet Channel Estimation in OFDM Systems**  
   Gabriele Dell'Amico (Dora Spa, STMicroelectronics Group, Italy); Eleonora Guerrini (Dora Spa, STMicroelectronics Group, Italy); Raffaele Riva (ST Microelectronics, Italy); Marco Odoni (STMicroelectronics, Italy)

4. **Joint Channel and Echo Impulse Response Shortening for High-Speed Data Transmission**  
   Ali Enteshari (Pennsylvania State University, USA); Jarir Fadlullah (Pennsylvania State University, USA); Mohsen Kavehrad (The Pennsylvania State University -- Univ. Park, USA)

5. **A Novel Time Domain Synchronous Orthogonal Frequency Division Multiple Access Scheme**  
   Linglong Dai (Tsinghua University, P.R. China)

6. **Advanced Wireless IP Access System (WIPAS) for Higher Speed and Real-Time Communication Services**  
   Kiyohiko Itokawa (NTT Corporation, Japan); Toru Nishikawa (NTT Corporation, Japan); Akira Matsushita (NTT Corporation, Japan); Mitsuji Nishino (Nippon Telegraph and Telephone Corporation, Japan); Yasunari Takahata (Nippon Telegraph and Telephone Corporation, Japan); Yoshihiko Shindo (Nippon Telegraph and Telephone Corporation, Japan)

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**SPC-07: Signal Detection and Synchronization 1**  
Chair: Zhiqiang Wu (Wright State University, USA), Hung Nguyen (The Aerospace Corporation, USA)  
Room: 15

1. **Signal Estimation in Clutter Using SVM-based Chaos Synchronization**  
   Di He (Shanghai Jiao Tong University, P.R. China)
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<td>Low-Complexity Near-Optimal Presence Detector for Linearly Modulated Signals</td>
<td>Jeong Ho Yeo (Pohang University of Science and Technology (POSTECH), Korea); Joon Ho Cho (Pohang University of Science and Technology (POSTECH), Korea)</td>
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<td>3.</td>
<td>On-line Hybrid Cramér-Rao bound for oversampled dynamical phase and frequency offset estimation</td>
<td>Jordi Vilà Valls (Grenoble Institute of Technology, France); Jean-Marc Brossier (GIPSA-lab/DIS - BP 46 - 38402 Saint-Martin-d'Hères, France); Laurent Ros (GIPSA-lab., France)</td>
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<td>Near-ML detection over a reduced dimension hypersphere</td>
<td>Jun Won Choi (University of Illinois at Urbana-Champaign, USA); Byonghyo Shim (Korea University, Korea); Andrew Singer (University of Illinois at Urbana Champaign, USA)</td>
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<td>5.</td>
<td>IDMA vs. CDMA: Detectors, Performance and Complexity</td>
<td>Katsutoshi Kusume (DOCOMO Euro-Labs, Germany); Gerhard Bauch (Universitaet der Bundeswehr Munich, Germany); Wolfgang Utschick (Technische Universität München, Germany)</td>
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<td>6.</td>
<td>Jamming Mitigation Techniques based on Message-Driven Frequency Hopping</td>
<td>Lei Zhang (Michigan State University, USA); Jian Ren (Michigan State University, USA); Tongtong Li (Michigan State University, USA)</td>
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SPC-14: Signal Processing for Communications 2 (Poster)
Chair: Tomoaki Ohtsuki (Keio University, Japan), Hung Nguyen (The Aerospace Corporation, USA)
Room: Poster Area

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<td>Soft-decode-and-forward for Asynchronous Wireless Network with Doubly-Selective Fading</td>
<td>Jingxian Wu (University of Arkansas, USA)</td>
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<td>2.</td>
<td>Distributed null-steering beamforming for wireless sensor networks</td>
<td>Keyvan Zarifi (University of Quebec, INRS-EMT, Canada); Sofiene Affes (INRS-EMT, Canada); Ali Ghrayeb (Concordia University, Canada)</td>
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<td>3.</td>
<td>Joint Power Allocation and Relay Selection in Cooperative Networks</td>
<td>Khoa Phan (California Institute of Technology, USA); Duy Nguyen (University of Saskatchewan, Canada); Tho Le-Ngoc (McGill University, Canada)</td>
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<td>Optimized Spreding Code Reallocation Technique for PAPR Reduction in MC-CDMA systems</td>
<td>Lin Yang (University of Manchester, United Kingdom)</td>
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<td>Optimized Architecture for Computing Zadoff-Chu Sequences with Application to LTE</td>
<td>Mohammad Mansour (American University of Beirut, Lebanon)</td>
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<td>A Simple Sequential Spectrum Sensing Scheme for Cognitive Radio</td>
<td>Yan Xin (NEC Laboratories America Inc., USA); Honghai Zhang (NEC Labs America, USA); Sampath Rangarajan (NEC Labs America, USA)</td>
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WCS-25: Cooperative Communication: Distributed Modulation and Coding
Chair: TBD
Room: 01

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<td>Cooperative Transmission with Continuous Phase Frequency Shift Keying and Phase-Forward Relays</td>
<td>Paul Ho (Simon Fraser University, Canada); Qi Yang (Simon Fraser University, Canada)</td>
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<td>2.</td>
<td>Energy-Efficient Space-Time Coded Cooperative Routing in Multihop Wireless Networks</td>
<td>Behrouz Maham (University of Oslo, Norway); Ravi Narasimhan (Quantenna Communications, USA); Are Hjørungnes (University of Oslo, Norway)</td>
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<td>3.</td>
<td>Design of Signal Constellation Rearrangement (CoRe) for Multiple Relay Links</td>
<td>Jinwoo Kim (Korea University, Korea)</td>
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<td>4.</td>
<td>Design of Distributed Space-Time Block Code for Two-Relay System over Frequency Selective Fading Channels</td>
<td>Quoc-Tuan Vien (Kyung Hee University, Korea); Le-Nam Tran (Kyung Hee University, Korea); Een-Kee Hong (Kyunghhee University, Korea)</td>
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<td>Successive Relaying Aided Near-Capacity Irregular Distributed Space-Time Coding</td>
<td>Lingkun Kong (University of Southampton, United Kingdom); Soon Xin Ng (University of Southampton, United Kingdom); Robert Mauder (University of Southampton, United Kingdom); Lajos Hanzo (University of Southampton, United Kingdom)</td>
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**WCS-26: Cognitive Radio**

Chair: TBD  
Room: 02

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<td>Bandpass Sampling Digital Frontend Architecture for Multi-band Access Cognitive Radio</td>
<td>Jae Hyung Kim (Changwon National University, Korea); Hongmei Wang (Changwon National University, School of Mechatronics Engineering, Korea); HyungJung Kim (ETRI (Electronics and Telecommunications Research Institute), Korea); Jin-Up Kim (ETRI, Korea)</td>
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<td>2.</td>
<td>Cooperative Spectrum Sensing over Correlated Log-Normal Sensing and Reporting Channels</td>
<td>Marco Di Renzo (Telecommunications Technological Center of Catalonia, Spain); Laura Imbriglio (University of L'Aquila (Italy), Italy); Fabio Graziosi (University of l'Aquila, Italy); Fortunato Santucci (University of l'Aquila, Italy)</td>
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<tr>
<td>3.</td>
<td>Cooperative Spectrum Sensing with Dynamic Threshold Adaptation</td>
<td>Dae-Young Seol (POSTECH, Korea)</td>
</tr>
<tr>
<td>4.</td>
<td>Quality-of-Service in Cognitive Radio Networks with Collaborative Sensing</td>
<td>Xinbing Wang (Shanghai Jiaotong University, P.R. China); Xinping Guan (Shanghai Jiao Tong University, P.R. China); Hsiao-Hwa Chen (National Cheng Kung University, Taiwan)</td>
</tr>
<tr>
<td>5.</td>
<td>Relay Based Cooperative Spectrum Sensing in Cognitive Radio Networks</td>
<td>Saman Atapattu (University of Alberta, Canada); Chintha Tellambura (University of Alberta, Canada); Hai Jiang (University of Alberta, Canada)</td>
</tr>
<tr>
<td>6.</td>
<td>A Distributed Beamforming Approach for Enhanced Opportunistic Spectrum Access in Cognitive Radios</td>
<td>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)</td>
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</tbody>
</table>

**WCS-27: MIMO-OFDM**

Chair: TBD  
Room: 03

<table>
<thead>
<tr>
<th></th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>1.</td>
<td>A Multilayer Space-Time-Frequency Coding Scheme for MIMO-OFDM</td>
<td>Guosen Yue (NEC Laboratories America, Inc., USA); Li Zhang (University of California at Davis, USA); Xiaodong Wang (Columbia University, USA)</td>
</tr>
</tbody>
</table>
| 2.  | A Virtual Layered Space-Frequency Communication Architecture with Iterative Decoding  
Jun Imamura (Kyoto University, Japan); Satoshi Denno (Kyoto University, Japan); Daisuke Umehara (Kyoto University, Japan); Masahiro Morikura (Kyoto University, Japan) |
| 3.  | Low-Complexity Algorithm for Log Likelihood Ratio in Coded MIMO-OFDM Communications  
Zheng Liming (Tokyo Institute of Technology, Japan); Jooin Woo (Tokyo Institute of Technology, Japan); Kazuhiko Fukawa (Tokyo Institute of Technol., Japan); Hiroshi Suzuki (Tokyo Institute of Technology, Japan) |
Chan-Ho Choi (POSTECH, Korea) |
| 5.  | Iterative Receiver Design with Joint Channel Estimation and Synchronization for Coded MIMO-OFDM over Doubly Selective Channels  
Hung Nguyen-Le (McGill University, Canada); Tho Le-Ngoc (McGill University, Canada); Nghi Tran (McGill University, Canada) |
| 6.  | Slepian-Based Serial Estimation of Time-Frequency Variant Channels for MIMO-OFDM Systems  
Pierluigi Salvo Rossi (Second University of Naples, Italy); Ralf Mueller (Norwegian University of Science and Technology, Norway); Ove Edfors (Lund University, Sweden) |

**WCS-28: Power Control**  
Chair: TBD  
Room: 04

| 1.  | Dynamic Power Allocation over Block-Fading Channels with Delay Constraint  
Ali Sharifkhani (University of Alberta, Canada); Norman Beaulieu (University of Alberta, Canada) |
| 2.  | Three-Degree of Freedom Adaptive Power Control for CDMA Cellular Systems  
Juan Agüero (The University of Newcastle, Australia); Graham Goodwin (the University of Newcastle, Australia); Katrina Lau (University of Newcastle, AUSTRALIA, Australia); Meng Wang (the University of Newcastle, Australia); Eduardo Silva (Universidad Tecnica Federico Santa Maria, Chile); Torbjörn Wigren (Uppsala University, Sweden) |
| 3.  | Distributed Uplink Power Control for OFDMA Cellular Systems  
Changho Suh (University of California at Berkeley, USA); Ali Koc (Intel Corporation, USA); Shilpa Talwar (Intel, USA) |
| 4.  | Distributed Power Control in Femtocell-Underlay Cellular Networks  
Vikram Chandrasekhar (The University of Texas at Austin, USA); Jeffrey Andrews (The University of Texas at Austin, USA); Zukang Shen (Texas Instruments, Inc., USA); Tarik Muharemovic (Texas Instruments, USA); Alan Gatherer (Texas Instruments - DSPS R&D Center, USA) |
| 5.  | Conjectural Equilibrium in Water-filling Games  
Yi Su (University of California, Los Angeles, USA); Mihaela van der Schaar (University of California, Los Angeles (UCLA), USA) |
| 6.  | Analysis and Efficient Computation of Instantaneous Power Distribution of Single-Carrier Signals  
Makoto Tanahashi (Yokohama National University, Japan); Hideki Ochiai (Yokohama National University, Japan) |
### WNS-13: Vehicular Ad Hoc Networks

**Chair:** Shiwen Mao (Auburn University, USA)

**Room:** 08

1. **Detection of Radio Interference Attacks in VANET**  
   Jalel Ben-othman (Université de Versailles, France); ALI Hamieh (University of Versailles, France); Lynda Mokdad (Université de Paris Dauphine, France)

2. **Competitive Wireless Access for Data Streaming Over Vehicle-to-Roadside Communications**  
   Dusit Niyato (Nanyang Technological University, Singapore); Ekram Hossain (University of Manitoba, Canada); Ping Wang (Nanyang Technological University, Singapore)

3. **On a Stochastic Delay Bound for Disrupted Vehicle-to-Infrastructure Communication with Random Traffic**  
   Atef Abdrabou (University of Waterloo, Canada); Weihua Zhuang (University of Waterloo, Canada)

4. **A New Hierarchical and Adaptive Protocol for Minimum-Delay V2V Communication**  
   Ala Al-Fuqaha (Western Michigan University, USA)

5. **A Mobicast Routing Protocol in Vehicular Ad-Hoc Networks**  
   Yuh-Shyan Chen (National Taipei University, Taiwan); Yun-Wei Lin (National Chung Cheng University, Taiwan); ShinLing Lee (National Chung Cheng University, CSIE, Taiwan)

6. **Provisioning of On-demand Services in Vehicular Networks**  
   Etienne Coronado (Universite de Sherbrooke, Canada); Soumaya Cherkaoui (University of Sherbrooke, Canada)

### WNS-14: Cognitive Networking

**Chair:** Lijun Qian (Prairie View A&M University, USA)

**Room:** 09

1. **Coexistence Problem in IEEE 802.22 Wireless Regional Area Networks**  
   Raed Al-Zubi (University of Arizona, USA); Mohammad Siam (University of Arizona, USA); Marwan Krunz (University of Arizona, USA)

2. **On Study of Achievable Capacity with Hybrid Relay in Cognitive Radio Networks**  
   Lei Sun (NC State University, USA); Wenyue Wang (NC State University, USA)

3. **A Rateless Coding based Multi-Relay Cooperative Transmission Scheme for Cognitive Radio Networks**  
   Xijun Wang (Tsinghua University, P.R. China); Wei Chen (Tsinghua University, P.R. China); Zhigang Cao (Tsinghua University, P.R. China)

4. **Design and Analysis of A Sensing Error-Aware MAC Protocol for Cognitive Radio Networks**  
   Donglin Hu (Auburn University, USA); Shiwen Mao (Auburn University, USA)

5. **A novel cognitive networking scenario for IEEE 802.16 networks**  
   Daniele Tarchi (University of Florence, Italy); Romano Fantacci (University of Florence, Italy)

6. **Network Selection in Cognitive Radio Systems**  
   Chonggang Wang (NEC Laboratories America, USA); Kazem Sohraby (University of Arkansas, USA); Rittwik Jana (AT&T Labs Research, USA); Lusheng Ji (AT&T Labs Research, USA); Mahmoud Daneshmand (AT&T, USA)
### WNS-21: Topics in Wireless Networking I (Poster)

**Chair:** Thierry Gayraud (LAAS-CNRS, Université de Toulouse, France)

**Room:** Poster Area

1. **Bandwidth Adaptation for Vertical QoS Mapping in Protocol Stacks for Wireless Links**  
   Maurizio Mongelli (University of Genoa, Italy); Franco Davoli (University of Genoa, Italy); Mario Marchese (DIST- University of Genoa, Italy)

2. **Stochastic Rate Control for Scalable VBR Video Streaming over Wireless Networks**  
   Guang Ji (University of Toronto, Canada); Ben Liang (University of Toronto, Canada)

3. **Rethinking Thresholds-based Rate Adaptation Algorithms: A Reverse Engineering Perspective**  
   Yang Song (University of Florida, USA); Xiaoyan Zhu (University of Florida, USA); Yuguang Fang (University of Florida, USA); Hailin Zhang (Xidian University, P.R. China)

4. **An Efficient Hybrid Adaptive Location-aided Gateway Advertisement and Discovery Protocol for Heterogeneous Wireless and Mobile Networks**  
   Kaouther Abrougui (SITE, University of Ottawa, Canada); Azzedine Boukerche (Univ. of Ottawa, Canada); Richard Pazzi (University of Ottawa, Canada)

5. **Relative-Closest Connect-First Method For Topology Control in Wireless Mesh Networks**  
   Jun Zhang (The City University of Hongkong University, Hong Kong); Baobing Wang (City University of Hong Kong, Hong Kong); Xiaohua Jia (City University of Hong Kong, Hong Kong)

6. **Bayesian-Based Game Theoretic Model to Guarantee Cooperativeness in Hybrid RF/FSO Mesh Networks**  
   Ala Al-Fuqaha (Western Michigan University, USA)

**14:00 - 16:00**

### AHSN-20: Localization II

**Chair:** Michael Buehrer (Virginia Tech, USA), Ramachandran Venkatesan (Memorial U. of Newfoundland, Canada)

**Room:** 05

1. **Effect of Pivot Nodes Selection Schemes on Self-Localization Performance in a Mobile Sensor Network**  
   Shinsuke Hara (Osaka City University, Japan)

2. **Error Propagation in Sensor Network Localization with Regular Topologies**  
   Baoqi Huang (the Australian National University, Australia); Changbin Yu (The Australian National University, Australia); Brian Anderson (Australian National University, Australia)

   Jesse Reed (Virginia Tech, USA); Claudio Da Silva (Virginia Tech, USA); Michael Buehrer (Virginia Tech, USA)

4. **Design and Evaluation of a New Localization Scheme for Underwater Acoustic Sensor Networks**  
   Cheng Li (Memorial University of Newfoundland, Canada); Tao Bian (Memorial University of Newfoundland, Canada); Ramachandran Venkatesan (Memorial University of Newfoundland, Canada)

5. **A Graph Embedding Method for Wireless Sensor Networks Localization**  
   Chengqun Wang (Zhejiang University, P.R. China); Jiming Chen (Zhejiang University, P.R. China); Youxian Sun (Zhejiang University, P.R. China); Sherman Shen (University of Waterloo, Canada)
6. Robust Maximum Likelihood Acoustic Source Localization in Wireless Sensor Networks
Yong Liu (Northwestern Polytechnical University, USA); Yuhen Hu (Univ. of Wisconsin at Madison, USA); Quan Pan (Northwestern Polytechnical University, P.R. China)

AHSN-21: Security I
Chair: Mohamed Younis (Univ. of Maryland Baltimore County, USA), Tricha Anjali (Illinois Inst. of Tech., USA)
Room: 06

1. Secure Unified Cellular Ad Hoc Network Routing
Jason Haas (University of Illinois at Urbana-Champaign, USA); Yih-Chun Hu (University of Illinois at Urbana-Champaign, USA)

2. Channel-Aware Detection of Gray Hole Attacks in Wireless Mesh Networks
Devu Manikantan Shila (Illinois Institute of Technology, USA); Yu Cheng (Illinois Institute of Technology, USA); Tricha Anjali (Illinois Institute of Technology, USA)

Binod Vaidya (Institute of Telecommunications, Portugal); Mieso Denko (University of Guelph, Canada); Joel Rodrigues (University of Beira Interior, Portugal)

Mohamed Younis (University of Maryland Baltimore County, USA); Osama Farrag (Johns Hopkins University APL, USA)

5. Rational Greedy Behavior in Wireless Ad Hoc Networks
Soufiene Djahel (University of Lille, France); Farid Nait-Abdesselam (University of Lille, France); Damla Turgut (University of Central Florida, USA)

Avesh Agarwal (North Carolina State University, USA); Wenye Wang (NC State University, USA)

CISS-08: Information Hiding and Information Gathering
Chair: Yong Xiang (Deakin University, Australia)
Room: 16

1. A Novel Pseudonoise Sequence for Time-Spread Echo Based Audio Watermarking
Yong Xiang (Deakin University, Australia)

2. Embedding a Covert Channel in Active Network Connections
Hassan Khan (NUST, Pakistan); Yousra Javed (National University of Sciences and Technology (NUST), Pakistan, Pakistan); Syed Ali Khayam (National University of Sciences & Technology (NUST), Pakistan); Fauzan Mirza (National University of Sciences & Technology (NUST), Pakistan)

3. Robust Image Data Hiding Using Geometric Mean Quantization
Mohammad Ali Akhaee (EE Dept of Sharif University of Technology, Tehran, Iran, Iran); Shahrokh Ghaemmaghami (Sharif University of Technology, Iran); Amir Nikooeinejad (Student in Sharif University, Iran)

4. An Anonymous Communication Mechanism without Key Infrastructure based on Multi-paths Network Coding
Weiping Wang (School of information science & engineer, Central South University, P.R. China); Guihua Duan (Central South University, P.R. China); Jianxin Wang (Central South University, P.R. China); Jianer Chen (Texas A&M University, USA)
5. **Using Network Motifs to Identify Application Protocols**  
Edward Allan, Jr. (Wake Forest University, USA); William Turkett (Wake Forest University, USA); Errin Fulp (Wake Forest University, USA)

6. **A New Data Streaming Method for Locating Hosts with Large Connection Degree**  
Xiaohong Guan (Tsinghua University, P.R. China); Pinghui Wang (Xi'an JiaoTong University, P.R. China); Tao Qin (Xi'an Jiaotong University, P.R. China)

**CQPRM-10: Service Oriented Networking**  
Chair: Katsunori Yamaoka (Tokyo Institute of Technology, Japan)  
Room: 17

1. **Service differentiation based on flexible time constraints in market-oriented grids**  
Rosy Aoun (Telecom ParisTech, France); Maurice Gagnaire (E.N.S.T., France)

2. **Experimental Evaluation of PCE-Based Batch Provisioning of Grid Service Interconnections**  
Luca Valcarenghi (Scuola Superiore Sant'Anna, Italy); Pawel Korus (AGH University of Science and Technology, Poland); Francesco Paolucci (Scuola Superiore S.Anna, Italy); Filippo Cugini (CNIT, Italy); Miroslaw Kantor (AGH University of Science and Technology, Poland); Krzysztof Wajda (AGH University of Science and Technology, Poland); Piero Castoldi (Scuola Superiore Sant'Anna, Italy)

3. **Evaluation of multi-point to single-point service traffic shaping in an enterprise network**  
Keerthana Boloor (North Carolina State University, USA); Marcelo Dias de Amorim (UPMC Paris Universitas, France); Bob Callaway (IBM, USA); Adolfo Rodriguez (IBM, Duke University, USA); Yannis Viniotis (North Carolina State University, USA)

4. **Context-aware Multimedia Processing System in a Pervasive Environment**  
Zhuzhong Qian (Nanjing University, P.R. China); Song Guo (University of Aizu, Japan); Minyi Guo (The University of Aizu, Japan); Sanglu Lu (Nanjing University, P.R. China)

5. **Design and Configuration of PCN Based Admission Control in Multimedia Aggregation Networks**  
Steven Latré (Ghent University, Belgium); Bart De Vleeschauwer (Ghent University, Belgium); Wim Van de Meerssche (Ghent University, Belgium); Filip De Turck (Ghent University, Belgium); Piet Demeester (Ghent University, Belgium)

6. **More adaptive robust stable routing**  
Mateusz Zotkiewicz (Warsaw University of Technology, Poland); Walid Ben-Ameur (INT, France)

**CQPRM-13: Topics in Communications QoS, Reliability & Performance Modeling II (Poster)**  
Chair: Nelson L. S. da Fonseca (State University of Campinas, Brazil)  
Room: Poster Area

1. **Hybrid video-quality-estimation model for IPTV services**  
Kazuhisa Yamagishi (NTT, Japan); Taichi Kawano (NTT, Japan); Takanori Hayashi (NTT, Japan)

2. **A Framework for Modeling the Lifetime and Residual Energy Distribution in Wireless Networks**  
Krishna Ramachandran (Rensselaer Polytechnic University, USA); Biplab Sikdar (Rensselaer Polytechnic Institute, USA)

3. **An optimal batch scheduling algorithm for OBS networks**  
Gustavo Figueiredo (University of Campinas, Brazil); Eduardo Xavier (University of Campinas, Brazil); Nelson L. S. da Fonseca (State University of Campinas, Brazil)

4. **Revenue Maximization for Communication Networks with Usage-Based Pricing**  
Shuqin Li (The Chinese University of Hong Kong, Hong Kong); Jianwei Huang (The Chinese University of Hong Kong, Hong Kong); Shuo-Yen Li (The Chinese University of Hong Kong, Hong Kong)
5. **PEMP: Peering Equilibrium MultiPath routing**  
   Stefano Secci (Telecom ParisTech, France); Jean-Louis Rougier (TELECOM ParisTech, France); Achille Pattavina (Politecnico di Milano, Italy); Fioravante Patrone (Università di Genova, Italy); Guido Maier (Politecnico di Milano, Italy)

6. **Providing End-to-End Statistical Delay Guarantees with Non-Gaussian Input Traffic**  
   Paolo Giacomazzi (Politecnico di Milano, Italy); Gabriella Saddemi (Politecnico di Milano, Italy)

**CTS-10: Iterative Detection and Decoding**  
Chair: TBD  
Room: 12

1. **Achievable Rates of Coded Linear Systems with Iterative MMSE Detection**  
   Xiaojun Yuan (City University of Hong Kong, Hong Kong); Li Ping (City University of Hong Kong, Hong Kong)

2. **EXIT Chart Evaluation of a Receiver Structure for Multi-User Multi-Antenna OFDM Systems**  
   Peter Hammarberg (Lund University, Sweden); Fredrik Rusek (Lund University, Sweden); Pierluigi Salvo Rossi (Second University of Naples, Italy); Ove Edfors (Lund University, Sweden)

3. **Rateless Codes with Optimum Intermediate Performance**  
   Ali Talari (Oklahoma State University, USA); Nazanin Rahnavard (Oklahoma State University, USA)

4. **Rateless Multilevel Coding and Applications**  
   Trung Thanh Nguyen (University of British Columbia, Canada); Lutz Lampe (University of British Columbia, Canada)

5. **Near-Shannon-Limit Linear-Time-Encodable Nonbinary Irregular LDPC Codes**  
   Jie Huang (University of Connecticut, USA); Shengli Zhou (University of Connecticut, USA); Peter Willett (University of Connecticut, USA)

6. **Exploiting Opportunistic Multiuser Detection in Decentralized Multiuser MIMO Systems**  
   Rui Zhang (Institute of Infocomm Research, Singapore)

**CTS-11: Relay Networks I**  
Chair: TBD  
Room: 13

1. **Asymptotic Capacity of Large Fading Relay Networks under Random Attacks**  
   Chuan Huang (Texas A&M University, USA); Jinhua Jiang (Stanford University, USA); Shuguang Cui (Texas A&M University, USA)

2. **Multihop MIMO Relay Networks with ARQ**  
   Yao Xie (Stanford University, USA); Deniz Gunduz (Princeton University, USA); Andrea Goldsmith (Stanford University, USA)

3. **Analog Source Exchange with the Help of a Relay**  
   Tung Kim (Princeton University, USA); H. Vincent Poor (Princeton University, USA)

4. **Beamforming in Wireless Relay-Interference Networks with Quantized Feedback**  
   Erdem Koyuncu (University of California, Irvine, USA); Hamid Jafarkhani (University of California, Irvine, USA)

5. **Distributed Averaging in Dense Wireless Networks**  
   Sundaram Vanka (University of Notre Dame, USA); Martin Haenggi (University of Notre Dame, USA); Vijay Gupta (University of Notre Dame, USA)
| 6. **Quantization of Channel State Information for Detect-and-Forward Relaying Schemes**  
  Mustapha Ben jillali (INRS-EMT, Canada); Leszek Szczecinski (INRS-EMT, Canada) |
|---|
| **NGNI-08: Session Management**  
  **Chair:** TBD  
  **Room:** 11 |
| 1. **A method of constructing QoS overlay network and its evaluation**  
  Ryoichi Kawahara (NTT Service Integration Laboratories, Japan); Satoshi Kamei (NTT Service Integration Laboratories, Japan); Noriaki Kamiyama (NTT Service Integration Laboratories, Japan); Haruhisa Hasegawa (NTT Service Integration Labs., Japan); Hideaki Yoshino (NTT, Japan); Eng Keong Lua (Carnegie Mellon University, USA); Akihiro Nakao (University of Tokyo, Japan) |
| 2. **Sketch-Based SIP Flooding Detection Using Hellinger Distance**  
  Jin Tang (Illinois Institute of Technology, USA); Yu Cheng (Illinois Institute of Technology, USA); Chi Zhou (Illinois Institute of Technology, USA) |
| 3. **MultiNet: Multiple Virtual Networks for a Reliable Live Streaming Service**  
  Yanfeng Zhang (Northeastern University, P.R. China); Lixin Gao (University of Massachusetts at Amherst, USA); Cuirong Wang (Northeast University, P.R. China) |
| 4. **Queueing strategies for local overload control in SIP server**  
  Rosario Garroppo (University of Pisa, Italy); Stefano Giordano (University of Pisa, Italy); Stella Spagna (University of Pisa, Italy); Saverio Niccolini (NEC Europe Ltd., Germany) |
| 5. **Session Control Cooperating Core and Overlay Networks for “Minimum Core” Architecture**  
  Takayuki Warabino (KDDI R&D Laboratories Inc., Japan) |
| 6. **Empirical Analysis of Security Threats against SIP Servers**  
  M. Zubair Raﬁque (Next Generation Intelligent Networks Research Center (nexGIN RC), Pakistan); Muhammad Ali Akbar (Next Generation Intelligent Networks Research Center (nexGIN RC), Pakistan); Muddassar Farooq (Next Generation Intelligent Networks Research Center (nexGIN RC), Pakistan) |
| **ONS-08: Topics in Optical Networking (Poster)**  
  **Chair:** Naoaki Yamanaka (Keio University, Japan)  
  **Room:** Poster Area |
| 1. **Scheduling Algorithms in LiTPiC – Digital Optical Networks using Light-trails and Photonic Integrated Circuits**  
  Ashwin Gumaste (Indian Institute of Technology, Bombay/Massachusetts Institute of Technology, India); Arun Somani (Iowa State University, USA) |
| 2. **Distributed Routing Path Optimization for OBS Networks based on Ant Colony Optimization**  
  João Pedro (Instituto de Telecomunicações, Portugal) |
| 3. **Design and Experimentation of an Optical-Header Processing and Access Control System for a Packet-Switched WDM Metro Ring Network**  
  Maria C. Yuang (National Chiao Tung University, Taiwan); Ya-Shian Wang (Chunghwa Telecom Co., Ltd., Taiwan, Taiwan); Lin Yu-Min (Optical Communications & Networking Technologies Department, ICRL/ITRI, Taiwan, Taiwan) |
| 4. **Emulation of Optical PIFO Buffers**  
  Houman Rastegarfar (University of Toronto, Canada); Monia Ghobadi (University of Toronto, Canada); Yashar Ganjali (University of Toronto, Canada) |
5. **Altering Grooming Decisions to Enhance p-Cycle Design Efficiency**  
Diane Onguetou (TRLabs and University of Alberta, Canada); Wayne Grover (University of Alberta, Canada)

6. **ONU Placement in Fiber-Wireless (FiWi) Networks Considering Peer-to-Peer Communications**  
Zeyu Zheng (Cityu University of Hong Kong, Hong Kong); Jianping Wang (City University of Hong Kong, Hong Kong)

**SAC(CRN)-08: Cooperation in Cognitive Radio Networks-2**  
Chair: Mainak Chatterjee (University of Central Florida, USA)  
Room: 10

1. **Cooperative Quickest Spectrum Sensing in Cognitive Radios with Unknown Parameters**  
Sepideh Zarrin (University of Toronto, Canada); Teng Joon Lim (University of Toronto, Canada)

2. **Cooperative Covariance and Eigenvalue Based Detections For Robust Sensing**  
Yonghong Zeng (Institute for Infocomm Research, Singapore); Ying-Chang Liang (Institute for Infocomm Research, Singapore); Edward Chu Yeow Peh (Nanyang Technological University, Singapore); Anh Tuan Hoang (Institute for Infocomm Research, Singapore)

3. **Misbehaviour detection in Cognitive and Cooperative Networks**  
Lorenza Giupponi (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Spain); Christian Ibars (Centre Tecnologic de Telecomunicacions de Catalunya - CTTC, Spain)

4. **A novel spectrum sharing technique based on channel occupancy rate information**  
Kenta Umebayashi (Tokyo University of agriculture and technology, Japan); Kohei Kasahara (Tokyo University of agriculture and technology, Japan); Yukihiro Kamiya (Tokyo University of Agriculture and Technology, Japan); Yasuo Suzuki (Tokyo University of Agriculture and Technology, Japan)

5. **Optimal Linear Soft Fusion Schemes for Cooperative Sensing in Cognitive Radio Networks**  
Bin Shen (Inha University, Korea)

6. **Bargaining to Improve Channel Sharing between Selfish Cognitive Radios**  
Hua Liu (University of Southern California, USA); Allen MacKenzie (Virginia Tech, USA); Bhaskar Krishnamachari (University of Southern California, USA)

**SPC-08: SIMO, MISO and MIMO Systems 1**  
Chair: Jinho Choi (Swansea University, United Kingdom), Tomohiko Taniguchi (Fujitsu Laboratories Ltd., Japan)  
Room: 14

1. **Analytical Comparison of Power Allocation Methods in MIMO systems with Singular Value Decomposition**  
Alberto Zanella (Istituto di Elettronica e di Ingegneria dell’Inform. e delle Telecomunicazioni, Italy); Marco Chiani (University of Bologna, Italy)

2. **On the Relation of MIMO APP Detection and SIMO Maximum Ratio Combining**  
Andreas Ibing (Fraunhofer Institute for Telecommunications, Heinrich-Hertz-Institut, Germany); David Kühling (Fraunhofer Institute for Telecommunications, Heinrich-Hertz-Institut, Germany); Holger Boche (Fraunhofer Institute for Telecommunications HHI, Germany)

3. **An Efficient Parallel Algorithm with Partial Decision Feedback for Near-Optimal MIMO Detection**  
Cong Xiong (Beijing University of Posts and Telecommunications, P.R. China); Xin Zhang (Beijing University of Posts and Telecommunications, P.R. China); Kai Wu (Beijing University of Posts and Telecommunications, P.R. China); Dacheng Yang (Beijing University of Posts and Telecommunications, P.R. China)
### SPC-09: Transmitter and Receiver Techniques 1

Chair: Guido Dietl (DOCOMO Euro-Labs, Germany), Tomohiko Taniguchi (Fujitsu Laboratories Ltd., Japan)

Room: 15

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<th>No.</th>
<th>Title</th>
<th>Authors</th>
</tr>
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<tbody>
<tr>
<td>1.</td>
<td>Least Squares Estimation for the Digital Compensation of Tx Leakage in zero-IF Receivers</td>
<td>Andreas Frotscher (Technische Universität Dresden, Germany); Gerhard Fettweis (Technische Universität Dresden, Germany)</td>
</tr>
<tr>
<td>2.</td>
<td>A Reduced-complexity MIMO Receiver via Channel Ordering</td>
<td>Boon Sim Thian (Stanford University, USA); Andrea Goldsmith (Stanford University, USA)</td>
</tr>
<tr>
<td>3.</td>
<td>Multi-window Spectrum Sensing of Unsynchronized OFDM Signal at Very Low SNR</td>
<td>Cong Wang (University of Western Ontario, Canada); Xianbin Wang (University of Western Ontario, Canada); Hao Li (University of Western Ontario, Canada); Paul Ho (Simon Fraser University, Canada)</td>
</tr>
<tr>
<td>4.</td>
<td>Design of Low Hardware Complexity Filter Banks for Communications Systems Employing Folding Number System</td>
<td>Duc-Minh Pham (Nanyang Technological University, Singapore); Premkumar A. B (Nanyang Technological University, Singapore); As Madhukumar (Nanyang Technological University, Singapore)</td>
</tr>
<tr>
<td>5.</td>
<td>Exploiting the diversity gain of transmitter I/Q imbalance in single-antenna OFDM systems</td>
<td>Edward Au (Huawei Technologies, P.R. China); Zhongding Lei (Institute for Infocomm Research, Singapore); Francois Chin (Institue for InfoComm Research, Singapore)</td>
</tr>
<tr>
<td>6.</td>
<td>Performance of Ultralow-power IR-UWB Correlator Receivers for Highly Accurate Wearable Human Locomotion Tracking and Gait Analysis Systems</td>
<td>Heba Shaban (Virginia Tech (VT-MENA), Egypt); Mohamad Abou El-Nasr (Arab Academy for Science and Technology, Egypt); Michael Buehrer (Virginia Tech, USA)</td>
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### WCS-29: Cooperative Communication: Performance Analysis

Chair: TBD

Room: 01

<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>1.</td>
<td>Exact Capacity Analysis of Rate Adaptive, Power Nonadaptive, Multibranch, Multihop, Decode-and-Forward Relaying Networks</td>
<td>Reza Nikjah (University of Alberta, Canada); Norman Beaulieu (University of Alberta, Canada)</td>
</tr>
<tr>
<td>2.</td>
<td>Exact Closed-Form Expressions for the Outage Probability and Ergodic Capacity of Decode-and-Forward Opportunistic Relaying</td>
<td>Reza Nikjah (University of Alberta, Canada); Norman Beaulieu (University of Alberta, Canada)</td>
</tr>
<tr>
<td>3.</td>
<td>Performance Analysis of Incremental-Best-Relay Amplify-and-Forward Technique.</td>
<td>Salama Ikki (University of Waterloo, Canada); Mohamed Hossam Ahmed (Memorial University, Canada); Murat Uysal (University of Waterloo, Canada)</td>
</tr>
</tbody>
</table>
4. Performance Analysis of Incremental-Relay-Selection Decode-and-Forward Technique  
Salama Ikki (University of Waterloo, Canada); Mohamed Hossam Ahmed (Memorial University, Canada); Murat Uysal (University of Waterloo, Canada)

5. SER Performance Analysis for Physical Layer Network Coding over AWGN Channel  
Kejie Lu (University of Puerto Rico at Mayaguez, Puerto Rico); Shengli Fu (University of North Texas, USA); Yi Qian (National Institute of Standards and Technology, USA); Hsiao-Hwa Chen (National Cheng Kung University, Taiwan)

Raymond Louie (University of Sydney, Australia); Yonghui Li (the university of sydney, Australia); Branka Vucetic (The University of Sydney, Australia)

WCS-30: Spectrum Sharing
Chair: TBD  
Room: 02

1. Power Allocation for OFDM-Based Cognitive Radio Systems with Hybrid Protection to Primary Users  
Xin Kang (National University of Singapore, Singapore); Hari Krishna Garg (National University of Singapore, Singapore); Ying-Chang Liang (Institute for Infocomm Research, Singapore); Rui Zhang (Institute for Infocomm Research, Singapore)

2. Cognitive Radio Enhancements for Legacy Networks using Cooperative Diversity  
Zhanwei Sun (University of Notre Dame, USA); Ioannis Krikidis (University of Edinburgh, United Kingdom); J. Nicholas Laneman (University of Notre Dame, USA); John Thompson (University of Edinburgh, United Kingdom)

3. An Auction-Based Incentive Mechanism for Non-Altruistic Cooperative ARQ via Spectrum-Leasing  
Igor Stanojev (Politecnico di Milano, Italy); Osvaldo Simeone (New Jersey Institute of Technology, USA); Umberto Spagnolini (Politecnico di Milano, Italy); Yeheskel Bar-Ness (New Jersey Institute of Technology, USA); Raymond L. Pickholtz (The George Washington University, USA)

4. Centralized Inter-Network Spectrum Sharing (SS) with Opportunistic Frequency Reuse  
Wei Ni (CSIRO, Australia)

5. A Game Theoretic Approach to Multi-User Spectrum Allocation  
Peter von Wrycza (Royal Institute of Technology (KTH), Sweden); Bhavani Shankar Mysore Rama Rao (Royal Institute of Technology (KTH), Sweden); Mats Bengtsson (Royal Institute of Technology (KTH), Sweden); Björn Ottersten (Royal Institute of Technology, Sweden)

6. Opportunistic Exploitation of Bandwidth Resources Through Reinforcement Learning  
Bechir Hamdaoui (Oregon State University, USA); Pavithra Venkatraman (Oregon State University, USA); Mohsen Guizani (WMU, USA)

WCS-31: OFDM
Chair: Hlaing Minn (University of Texas at Dallas, USA)  
Room: 03

1. Accurate Performance Analysis of OFDM on Nakagami-m Fading with Nonuniform Phase Distribution  
Khairi Hamdi (The University of Manchester, United Kingdom)

2. A Novel Iterative Decision-Directed Differential Detection Technique For Differential OFDM Systems  
Liang Zhang (Communications Research Centre Canada, Canada); Louis Thibault (Communications Research Centre, Canada)
3. **Optimal Pilot Power Allocation for OFDM Systems with Transmitter and Receiver IQ Imbalances**  
   V. Gottumukkala (University of Texas at Dallas, USA); Hlaing Minn (University of Texas at Dallas, USA)

4. **Effect of Nonlinear Amplifier in Companded OFDM with Application to 802.11n WLAN**  
   David Chi (University of California, San Diego, USA); Pankaj Das (University of California at San Diego, USA)

5. **Low Complexity Semi-blind Bayesian Iterative Receiver for MIMO-OFDM Systems**  
   Chun-lin Xiong (National University of Defense Technology, P.R. China); Xin Wang (National University of Defense Technology, P.R. China); Degang Wang (National University of Defense Technology, P.R. China); Ji-Bo Wei (National University of Defense Technology, P.R. China)

6. **A Theoretical Treatment of PA Power Optimization in Clipped MIMO-OFDM Systems**  
   Hun Seok Kim (University of California, Los Angeles, USA); Babak Daneshrad (University of California, Los Angeles, USA)

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**WCS-32: Space-time Coding**  
Chair: TBD  
Room: 04

1. **Unitary Space-Time Modulation for Single-Carrier Transmission Over Frequency-Selective Channels**  
   Der-Feng Tseng (National Taiwan University of Science and Technology, Taiwan)

2. **Transmit Diversity Scheme over Single SC-FDM Symbol for LTE-Advanced**  
   Xiliang Luo (Qualcomm Inc, USA); Peter Gaal (Qualcomm, USA); Wanshi Chen (Qualcomm, USA); Xiaoxia Zhang (Qualcomm Inc., USA); Juan Montojo (Qualcomm Inc., USA)

3. **Bandwidth Efficient Block Spreading Linear Dispersion Codes in Frequency Selective Fading Channels**  
   Yue Wang (Toshiba Research Europe Limited, United Kingdom); Justin Coon (Toshiba TRL, United Kingdom)

4. **A Systematic Design of Space-Time Block Codes Achieving Full-Diversity with Partial Interference Cancelation Group Decoding**  
   Wei Zhang (University of New South Wales, Australia); Xiang-Gen Xia (University of Delaware, USA)

5. **Embedded Orthogonal Space-Time Codes for High Rate and Low Decoding Complexity**  
   Mohamed Sinnokrot (Georgia Institute of Technology, USA); John Barry (Georgia Institute of Technology, USA); Vijay Madisetti (Georgia Institute of Technology, USA)

6. **A Simple Design of Space-Time Block Codes Achieving Full Diversity with Linear Receivers**  
   Huiming Wang (Xi'an Jiaotong University, P.R. China); Xiang-Gen Xia (University of Delaware, USA); Qinye Yin (Xi'an Jiaotong University, P.R. China); Bin Li (Huwei Technologies, P.R. China)

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**WNS-15: Medium Access Control**  
Chair: Mehmet Vuran (University of Nebraska-Lincoln, USA)  
Room: 07

1. **FD-MAC: A Flow-Driven MAC Protocol for Mobile Ad Hoc Networks**  
   Hai Wang (Nanjing Institute of Communications Engineering, P.R. China); Jun Zheng (Southeast University, P.R. China)

2. **LA-MAC: A Load Adaptive MAC Protocol for MANETs**  
   Weihong Hu (UC, Irvine, USA); Xiaolong Li (University of California, Irvine, USA); Homayoun Yousefi'zadeh (University of California, Irvine, USA)
3. **Robust Cooperative Relaying in a Wireless LAN: Cross-layer Design and Performance Analysis**  
Pei Liu (Polytechnic Institute of New York University, USA); Chun Nie (Polytechnic Institute of NYU, USA); Elza Erkip (Polytechnic Institute of NYU, USA); Shivendra Panwar (Polytechnic Institute of New York University, USA)

4. **Cooperative Content Distribution in Multi-Rate Wireless Networks**  
Eric M. K. Lo (Hong Kong University of Science and Technology, Hong Kong); Qian Zhang (Hong Kong University of Science and Technology, Hong Kong); Jin Zhang (Hong Kong University of Science and Technology, Hong Kong)

5. **A Distributed Contention Resolution Algorithm in Multi-packet reception ALOHA systems**  
Jun Bae Seo (University of British Columbia, Canada); Victor Leung (The University of British Columbia, Canada)

6. **Fairness Index Based on Variational Distance**  
Jing Deng (University of North Carolina at Greensboro, USA); Yunghsiang Han (National Taipei University, Taiwan); Ben Liang (University of Toronto, Canada)

**WNS-16: Localization and Location Tracking**  
Chair: Athanassios Manikas (Imperial College London, United Kingdom)  
Room: 08

1. **Indoor Localization Using Improved RSS-Based Lateration Methods**  
Jie Yang (Stevens Institute of Technology, USA); Yingying Chen (Stevens Institute of Technology, USA)

2. **Site-Specific RSS Signature Modeling for WiFi Localization**  
Brian Roberts (Worcester Polytechnic Institute, USA); Kaveh Pahlavan (Worcester Polytechnic Institute, USA)

3. **Improving Neighbor Localization in DSRC-based Wireless Networks to Avoid Overhead from Periodic Messages**  
Cristiano Rezende (University of Ottawa, Canada); Azzedine Boukerche (Univ. of Ottawa, Canada); Richard Pazzi (University of Ottawa, Canada)

4. **A P2P Location Calibration Mechanism in Wireless Network**  
Jianfeng Chen (Corporate Research, Thomson Beijing, P.R. China); Xiaojun Ma (Thomas Broadband R&D Co. Ltd, P.R. China)

5. **Location Prediction Model Based on Bayesian Network Theory**  
Yucheng Zhang (Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China, P.R. China)

6. **Fault-Tolerant Prediction-based Scheme for Target Tracking Application**  
Oualid Demigha (USTHB University, Algeria); Nadjib Badache (University of Sciences and Technology Houari Boumediane (USTHB), Algeria); Mohamed Aissani (University Paris XII, France); Abdelhamid Mellouk (University Paris XII, France)

**WNS-17: Wireless PANs and Wireless Sensor Networks**  
Chair: Gianluigi Ferrari (University of Parma, Italy)  
Room: 09

1. **End-to-End delay and network lifetime analysis in a wireless sensor network performing data aggregation**  
Laura Galluccio (University of Catania, Italy); Sergio Palazzo (University of Catania, Italy)
2. **Maximizing Lifetime of Sensor-Target Surveillance in Wireless Sensor Networks**  
   Hai Liu (Hong Kong Baptist University, Hong Kong); Xiaowen Chu (Hong Kong Baptist University, Hong Kong); Yiu-Wing Leung (Hong Kong Baptist University, Hong Kong); Xiaohua Jia (City University of Hong Kong, Hong Kong); Peng-Jun Wan (Illinois Institute of Technology, USA)

3. **Lifetime Maximization in Wireless Sensor Networks with an Estimation Mission**  
   Iordanis Koutsopoulos (UTH, Greece); Maria Halkidi (University of Piraeus, Greece)

4. **Dynamic Reconfiguration in Beaconless IEEE 802.15.4 Networks Under Varying Traffic Loads**  
   Dawn Rohm (University of Wisconsin - Milwaukee, USA); Mukul Goyal (University of Wisconsin - Milwaukee, USA); Weigao Xie (University of Wisconsin-Milwaukee, USA); Balaji Polepalli (University of Wisconsin-Milwaukee, USA); Hossein Hosseini (University of Wisconsin-Milwaukee, USA); August Divjak (Johnson Controls Inc, USA); Yusuf Bashir (Johnson Controls Inc, USA)

5. **A Simulation Study of CSMA/CA Performance in 60 GHz WPANs**  
   Wei Zhou (Iowa State University, USA); Saishankar Nandagopalan (Broadcom, USA); Daji Qiao (Iowa State University, USA)

6. **Beam Codebook Based Beamforming Protocol for Multi-Gbps Millimeter-Wave WPAN Systems**  
   Junyi Wang (NICT, Japan); Ryuhei Funada (National Institute of Information and Communications Technology, Japan); Hiroshi Harada (National Institute of Information & Communications Technology (NICT), Japan); Shuzo Kato (NICT, Japan)

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**WNS-22: Topics in Wireless Networking II (Poster)**  
Chair: Cheng Li (Memorial University of Newfoundland, Canada)  
Room: Poster Area

1. **Congestion Relief in CDMA Cellular Networks using Multihop Inter-cell Relay**  
   Ayman Radwan (Queen's University, Canada); Hossam Hassanein (Queen's University, Canada)

2. **Towards Efficient Rekeying for IEEE 802.16e WiMAX Networks**  
   Jeremy Brown (North Dakota State University, USA); Xiaojiang Du (North Dakota State University, USA)

3. **To Do or Not to Do: Metadata-guided Query Evaluation in Content Caching Networks**  
   Hui Wang (Stevens Institute of Technology, USA); Ruilin Liu (Stevens Institute of Technology, USA); Xiuyuan Zheng (Stevens Institute of Technology, USA); Yingying Chen (Stevens Institute of Technology, USA); Hongbo Liu (Stevens Institute of Technology, USA)

4. **Price War with Partial Spectrum Sharing for Competitive Wireless Service Providers**  
   Patrick Maillé (Telecom Bretagne, France); Bruno Tuffin (INRIA Rennes - Bretagne Atlantique, France)

5. **TAS Protocols of a PASD system with limited feedback information**  
   Sang Kim (Harvard University, USA); Saeed Ghassemzadeh (AT&T Labs - Research, USA); Robert Miller (AT&T Labs - Research, USA); Vahid Tarokh (Harvard University, USA)

6. **A Distributed Constraint Satisfaction Problem for Virtual Device Composition in Mobile Ad Hoc Networks**  
   Eric Karmouch (University of Ottawa, Canada); Amiya Nayak (SITE, University of Ottawa, Canada)
### AHSN-22: Security II

**Chair:** Dijiang Huang (Arizona State University, USA)  
**Room:** 05

1. **MPC: Mitigating Stealthy Power Control Attacks in Wireless Ad Hoc Networks**  
   Issa Khalil (United Arab Emirates University, UAE)

2. **Tame Pool-based Pairwise Key Predistribution for Large-scale Sensor Networks**  
   Yen-Hua Liao (National Taiwan University, Taiwan)

3. **Intrusion Detection in Gaussian Distributed Heterogeneous Wireless Sensor Networks**  
   Yun Wang (University of Cincinnati, USA)

   Xiaodong Lin (University of Ontario Institute of Technology, Canada)

5. **On The Connectivity of Key-Distribution Strategies in Wireless Sensor Networks**  
   Hosein Shafiei (Amirkabir University of Technology, Tehran, Iran, Iran); Ahmad Khonsari (University of Tehran, Iran); Mohammad Sadegh Talebi (IPM, Iran); Mohamed Ould-Khaoua (Sultan Qaboos University, Oman)

6. **Distributed Data-theft Detection in Wireless Sensor Networks**  
   Mukesh Jagasia (Arizona State University, USA); Dijiang Huang (Arizona State University, USA)

### AHSN-23: Topology Management

**Chair:** Hussein Mouftah (University of Ottawa, Canada), Stefano Basagni (Northeastern University, USA)  
**Room:** 06

1. **An Adaptive Self-Organizing Protocol with Multiple Stages for Wireless Mesh Networks**  
   Martin Krebs (RWTH Aachen University, Germany); Markus Kucay (RWTH Aachen University, Germany)

2. **Energy-aware Self-adjusted Topology Control Algorithm for Heterogeneous Wireless Ad Hoc Networks**  
   Ye Tian (Xidian University, P.R. China); Min Sheng (Xidian University, P.R. China); Jiandong Li (Xidian University, P.R. China); Yan Zhang (Xidian University, P.R. China)

3. **Multiobjective K-connected Deployment and Power Assignment in WSNs using constraint handling**  
   Andreas Konstantinidis (University of Essex, United Kingdom); Kun Yang (University of Essex, United Kingdom); Qingfu Zhang (University of Essex, United Kingdom)

4. **Collaborative Pairwise Detection Schemes for Improving Coverage in WSNs**  
   Michalis Michaelides (University of Cyprus, Cyprus); Christos Panayiotou (University of Cyprus, Cyprus)

5. **A Mapping of Wireless Network Boundaries using Localised Alpha-Shapes**  
   Marwan Fayed (University of Ottawa, Canada); Hussein Mouftah (University of Ottawa, Canada)

6. **Increased Connectivity at Lower Cost: The Case for Multi-radio Nodes in Multi-hop Wireless Networks**  
   Stefano Basagni (Northeastern University, USA); Andras Farago (The University of Texas at Dallas, USA); Maurizio Nanni (Northeastern University, USA); Dung Tran (The University of Texas at Dallas, USA)
### CQPRM-11: Next Generation Wireless Networks Performance

**Chair:** Michael Devetsikiotis (North Carolina State University, USA)

**Room:** 17

1. **Optimal Resource Scheduling in Wireless Multiservice Systems With Random Channel Connectivity**
   Hussein Al-Zubaidy (Carleton University, Canada); Ioannis Lambadaris (Carleton University, Canada); Yannis Viniotis (North Carolina State University, USA)

2. **Uplink Capacity of 802.16j Mobile Multihop Relay Networks with Transparent Relays**
   Hua Wang (Technical University of Denmark, Denmark); Jeffrey Andrews (The University of Texas at Austin, USA); Villy Iversen (Technical University of Denmark, Denmark)

3. **On the Design of Bi-connected Wireless Mesh Network Infrastructure with QoS Constraints**
   Benyamina Djohara (University of Montreal, Canada); Abdel Hafid (University of Montreal, Canada); Michel Gendreau (University of Montreal, Canada)

4. **VoIP Capacity over PCF with Imperfect Channel**
   Md. Atiur Rahman Siddique (Monash University, Australia, Australia); Joarder Kamruzzaman (Monash University, Australia, Australia)

5. **Optimizing Power Utilization in Vehicular Ad Hoc Networks through Angular Routing: A Protocol and its Performance Evaluation**
   Sudip Misra (Indian Institute of Technology-Kharagpur, India); Sanjay Dhurandher (NSIT, University of Delhi, India); Mohammad S. Obaidat (Monmouth University, USA); Mukta Gupta (NSIT, University of Delhi, India); Khushboo Diwakar (NSIT, University of Delhi, India); Gupta Pooja (University of Delhi, India)

6. **Performance Modeling by Decomposition for Heterogeneous Wireless Networks with Multiservice Overflow**
   Qian Huang (City University of Hong Kong, Hong Kong); King-Tim Ko (City University of Hong Kong, P.R. China); Villy Iversen (Technical University of Denmark, Denmark)

### CTS-12: MIMO and Space-Time Coding

**Chair:** TBD

**Room:** 12

1. **STBCs with Minimum Sphere Decoding Complexity for Two-User MIMO MAC**
   J. Harshan (Indian Institute of Science, India); B. Sundar Rajan (Indian Institute of Science, India)

2. **Efficient Soft-Output Demodulators for the Golden Code**
   Narayan Prasad (NEC Labs America, Princeton, USA); Meilong Jiang (NEC Labs, USA); Xiaodong Wang (Columbia University, USA)

3. **Kalman Filter-Based Channel Tracking in MIMO-OSTBC Systems**
   Murilo Loiola (University of Campinas, Brazil); Renato Lopes (University of Campinas, Brazil); João Romano (DSPCom-Unicamp: Digital Signal Processing for Comm. Lab., State University of Campinas, Campinas, Br, Brazil)

4. **Performance analysis of channel inversion over MIMO channels**
   Damith Senaratne (University of Alberta, Canada); Chinthu Tellambura (University of Alberta, Canada)

5. **Gaussian MIMO Multi-Receiver Wiretap Channel**
   Ersen Ekrem (University of Maryland, USA); Sennur Ulukus (University of Maryland, USA)
| 6. | **On Downlink Network MIMO under a Constrained Backhaul and Imperfect Channel Knowledge**  
Patrick Marsch (Technische Universität Dresden, Germany); Gerhard Fettweis (Technische Universität Dresden, Germany) |

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**CTS-13: Relay Networks II**  
Chair: TBD  
Room: 13

| 1. | **Optimum/Sub-optimum Detection for Multi-branch Cooperative Diversity Networks with Limited CSI**  
Peng Liu (Queen's University, Canada) |

| 2. | **Precoder Design for Correlated Multi-Antenna Cooperative Systems with Partial Decode and Forward Protocol and MMSE-SIC Receivers**  
Shunqing Zhang (Hong Kong University of Science and Technology, Hong Kong); Eddy Chiu (HKUST, Hong Kong); Vincent Lau (the Hong Kong University of Science and Technology, Hong Kong) |

| 3. | **Performance of Asynchronous Amplify-and-Forward Cooperative Relay Networks**  
Michel Nahas (Orange Labs, France); Ahmed Saadani (Orange labs, France); Walid Hachem (CNRS, France) |

| 4. | **Multiple Relay Channels With Delays: With and Without Side Information**  
Mohammad Bagher Iraji (Sharif University of Technology, Iran); Reza Khosravi-Farsani (Sharif University of Technology, Iran); Mohammad Reza Aref (Sharif University of Tech., Iran) |

| 5. | **Superimposed XOR: A New Physical Layer Network Coding Scheme for Two-Way Relay Channels**  
Jianquan Liu (Shanghai Jiao Tong University, P.R. China); Meixia Tao (Shanghai Jiao Tong University, P.R. China); Youyun Xu (Shanghai Jiaotong University, P.R. China); Xiaodong Wang (Columbia University, USA) |

Aly El Gamal (Nile University, Egypt); Hesham El Gamal (Ohio State University, USA); Moustafa Youssef (Nile University, Egypt) |

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**NGNI-09: Splicing, Bandwidth and Congestion control**  
Chair: TBD  
Room: 10

| 1. | **On the Safety and Security of Path Splicing**  
Christopher Page (Texas State University, USA); Mina Guirguis (Texas State University, USA) |

| 2. | **S-XCP: Improving XCP to Achieve Efficient and Fair Bandwidth Allocation**  
Hairui Zhou (Northwestern Polytechnical University, P.R. China) |

| 3. | **General Congestion Control for High Bandwidth-Delay Product Networks**  
Chengnian Long (Shanghai Jiaotong University, P.R. China); Qian Zhang (Hong Kong University of Science and Technology, Hong Kong) |

| 4. | **Delay-based Cloud Congestion Control**  
Mitchell Gusat (IBM Zurich research laboratory, Switzerland); Robert Birke (Politecnico di Torino, Italy); Cyriel Minkenberg (IBM Zurich Research Laboratory, Switzerland) |

| 5. | **Predicting Available Bandwidth of Internet Path with Ultra Metric Space-based Approaches**  
Changyou Xing (PLA University of Science and Technology, P.R. China); Ming Chen (Institute of Communications Engineering, P.R. China); Li Yang (PLA University of Science and Technology, P.R. China) |
6. **Path Splicing with Guaranteed Fault Tolerance**  
  Thomas Erlebach (University of Leicester, United Kingdom); Anna Mereu (University of Cagliari, Italy)

**NGNI-10: Wireless & Mobility**  
**Chair:** TBD  
**Room:** 11

1. **Receiver-Driven Queue Management For Achieving RTT-fairness in Wi-Fi Networks**  
   Dzmitry Kliazovich (University of Trento (Italy), Italy); Pedro Henrique Gomes (State University of Campinas, Brazil); Fabrizio Granelli (University of Trento, Italy); Nelson L. S. da Fonseca (State University of Campinas, Brazil)

2. **Preventing Unauthorized Messages in DTN Based Mobile Ad hoc Networks**  
   Hany Samuel (University of Waterloo, Canada); Weihua Zhuang (University of Waterloo, Canada)

3. **A Game-Theoretic Framework for Intra-ONU Scheduling in Integrated EPON/WiMAX Networks**  
   Hui-Tang Lin (National Cheng Kung University, Taiwan); Ying-You Lin (National Cheng Kung University, Taiwan (R.O.C.), Taiwan); Wang-Rong Chang (Department of Electrical Engineering, National Cheng Kung University, Taiwan); Song-Ming Chen (National Cheng Kung University, Taiwan)

4. **A Weighted Bipartite Graph Based Network Selection Scheme for Multi-Flows in Heterogeneous Wireless Network**  
   Yucheng Zhang (Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China, P.R. China)

5. **Integrated BS/ONU Placement in Hybrid EPON-WiMAX Access Networks**  
   Yu Liu (Illinois Institute of Technology, USA); Chi Zhou (Illinois Institute of Technology, USA); Yu Cheng (Illinois Institute of Technology, USA)

6. **On the Merits of Migrating to a Fully Packet-Based Mobile Backhaul RAN Infrastructure**  
   Sherif Sherif (Graduate School of the City University of New York, USA); Georgios Ellinas (University of Cyprus, Cyprus); Antonis Hadjiantonis (University of Nicosia, Cyprus); Roger Dorsinville (City University of NY, USA); Mohamed Ali (City University of New York, USA)

**SPC-10: SIMO, MISO and MIMO Systems 2**  
**Chair:** TBD  
**Room:** 14

1. **Near-Capacity Iteratively Decoded Markov-Chain Monte-Carlo Aided BLAST System**  
   Lingkun Kong (University of Southampton, United Kingdom); Wei Liu (University of Southampton, United Kingdom); Soon Xin Ng (University of Southampton, United Kingdom); Lajos Hanzo (University of Southampton, United Kingdom)

2. **Three-Stage Multi-Dimensional Sphere Packing Modulation Aided Multi-Functional MIMO**  
   Mohammed El-Hajjar (Imagination Technologies, United Kingdom); Osamah Alamri (University of Umm Al-Qura, Saudi Arabia); Lajos Hanzo (University of Southampton, United Kingdom)

3. **Analysis of Power Amplifier Nonlinearity at 60 GHz: Modeling and MIMO Beam-forming Capacity**  
   Navid Lashkarian (San Jose State University, USA); Babak Heydari (University of California Berkeley, USA)

4. **On the Performance of Adaptive Decode-and-Forward Cooperative Diversity with the Nth Best-Relay Selection Scheme**  
   Salama Ikki (University of Waterloo, Canada); Mohamed Hossam Ahmed (Memorial University, Canada); Murat Uysal (University of Waterloo, Canada)
5. **A Low-Complexity SLM PAPR Reduction Scheme for Interleaved OFDMA Uplink**  
   Sen-Hung Wang (National Sun Yat-Sen University, Taiwan); Jia-Cheng Xie (National Sun Yat-Sen University, Taiwan); Chih-Peng Li (National Sun Yat-Sen University, Taiwan)

6. **Optimizing Training-based Transmission for Correlated MIMO Systems with Hybrid Feedback**  
   Xiangyun Zhou (The Australian National University, Australia); Tharaka Lamahewa (The Australian National University, Australia); Parastoo Sadeghi (The Australian National University, Australia); Salman Durrani (The Australian National University, Australia)

**SPC-11: Transmitter and Receiver Techniques 2**  
Chair: Xianbin Wang (Univ. of Western Ontario, Canada), Tomohiko Taniguchi (Fujitsu Laboratories Ltd., Japan)  
Room: 15

1. **Searching in the Delta Lattice: An Efficient MIMO Detection for Iterative Receivers**  
   I-Wei Lai (National Taiwan University, Taiwan); Chun-Hao Liao (National Taiwan University, Taiwan); Martin Witte (RWTH Aachen University, Germany); David Kammler (RWTH Aachen University, Germany); Filippo Borlenghi (RWTH Aachen University, Italy); Konstantinos Nikitopoulos (RWTH Aachen University, Germany); Venkatesh Ramakrishnan (RWTH Aachen University, Germany); Dan Zhang (RWTH Aachen University, Germany); Tzi-Dar Chiueh (National Taiwan University, Taiwan); Gerd Ascheid (RWTH Aachen University, Germany)

2. **Iterative Receiver Techniques for SC-FDMA Uplink Block Transmission: Design and Performance Evaluation**  
   Paulo Torres (Instituto Superior Técnico, Portugal); Antônio Gusmao (Instituto Superior Técnico, Portugal)

3. **A Novel Synchronization Algorithm Dispensing with Searching for UWB Signals**  
   Ren Zhiyuan (Beijing University of Posts and Telecommunications, P.R. China); Tiejun Lv (Beijing University of Posts and Telecommunications, P.R. China)

4. **Soft Decision Aided Suboptimal ML Detection Receiver for Clipped COFDM Transmissions**  
   Romain Déjardin (University of Reims Champagne-Ardenne, France); Maxime Colas (DéCom/University of REIMS CHAMPAGNE-ARDENNE, France); Guillaume Gelle (DéCom / URCA, France)

5. **SNR Estimation for a Non-Coherent Binary Frequency Shift Keying Receiver**  
   Syed Hassan (Georgia Institute of Technology, USA); Mary Ingram (Georgia Institute of Technology, USA)

6. **Bayesian Robust Linear Transceiver Design for Dual-Hop Amplify-and-Forward MIMO Relay Systems**  
   Xing Chengwen (University of HongKong, Hong Kong); Shaodan Ma (The University of Hong Kong, P.R. China); Yik-Chung Wu (The University of Hong Kong, Hong Kong)

**SPC-12: Signal Detection and Synchronization 2**  
Chair: TBD  
Room: 16

1. **Near-Optimal Detection in MIMO Systems using Gibbs Sampling**  
   Morten Hansen (Technical University of Denmark, Denmark); Babak Hassibi (California Institute of Technology, USA); Alex Dimakis (California Institute of Technology, USA); Weiyu Xu (California Institute of Technology, USA)

2. **A Gram-Schmidt Based Lattice-Reduction Aided MMSE Detection in MIMO Systems**  
   Tadashi Fujino (The University of Electro-Communications, Japan); Shinjiro Wakazono (The University of Electro-Communications, Japan); Yusuke Sasaki (The University of Electro-Communications, Japan)
### WCS-33: Joint Source and Channel Coding
Chair: Claudio Silva (Virginia Tech, USA)

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<th>Title</th>
<th>Authors</th>
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<td>1.</td>
<td><strong>Distributed Joint Source-Channel coding for Functions over a Multiple Access Channel</strong></td>
<td>Vinod Sharma (Indian Institute of Science, India); Ramachandran Rajesh (Indian Institute of Science, India)</td>
</tr>
<tr>
<td>2.</td>
<td><strong>Joint Source-Channel Coding over a Fading Multiple Access Channel</strong></td>
<td>Vinod Sharma (Indian Institute of Science, India); Ramachandran Rajesh (Indian Institute of Science, India)</td>
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<td>3.</td>
<td><strong>Motion-compensated Scalable Video Transmission over MIMO Wireless Channels under Imperfect Channel Estimation</strong></td>
<td>Hobin Kim (University of California, San Diego, USA); Sun Yong Kim (Konkuk University, Korea); Pamela Cosman (University of California, San Diego, USA); Laurence Milstein (University of California, San Diego, USA)</td>
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<td>4.</td>
<td><strong>Progressive Source Transmissions using Joint Source-Channel Coding and Hierarchical Modulation in Packetized Networks</strong></td>
<td>Suayb Arslan (University of California, San Diego, USA); Pamela Cosman (University of California, San Diego, USA); Laurence Milstein (University of California, San Diego, USA)</td>
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<td>5.</td>
<td><strong>Robust Transmission of H.264 Coded Video Using Three-Stage Iterative Joint Source and Channel Decoding.</strong></td>
<td>Nasruminallah Nasruminallah (University of Southampton, UK., United Kingdom); Mohammed El-Hajjar (Imagination Technologies, United Kingdom); Lajos Hanzo (University of Southampton, United Kingdom)</td>
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<td>6.</td>
<td><strong>Unequal Power Allocation for Transmission of JPEG2000 Images over Wireless Channels</strong></td>
<td>Mahin Torki (Simon Fraser University, Canada); Atousa HajShirMohammadi (Simon Fraser University, Canada)</td>
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### WCS-34: Network Coding
Chair: Amir Hamed Mohsenian Rad (University of British Columbia, Canada)

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<td>1.</td>
<td><strong>A Joint Interchannel and Network Coding Schema for nVoD Services over Wireless Mesh Networks</strong></td>
<td>Francisco Castano (Universidad de Vigo, Spain); Cristina Lopez-Bravo (Universidad de Vigo, Spain)</td>
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2. **XOR-Forwarding for Wireless Networks**
   Hsiang-Po Wang (NCTU, Taiwan); Yi-Ta Chuang (National Chiao-Tung University, Taiwan); Chih-Wei Yi (National Chiao Tung University, Taiwan); Yu-Chee Tseng (National Chiao-Tung University, Taiwan); Pin-Chuan Liu (Industrial Technology Research Institute, Taiwan)

3. **On Performance of Multi-Timeslots Network Coding (MTNC) in Wireless Relay Networks**
   Hongmei Liu (Beijing University of Posts&Telecommunications (BUPT), P.R. China); Gang Chuai (Beijing University of Posts and Telecommunications, P.R. China); Wei Bao (Beijing University of Posts and Telecommunications, P.R. China); Mugen Peng (Beijing University of posts & Telecommunications, P.R. China); Wenbo Wang (Beijing University of Posts and Telecommunications, P.R. China)

4. **Analysis and Optimization for Multicast System with Regenerative Network Coding**
   Jun Li (University of New South Wales, Australia); Mingli You (Alcatel Shanghai Bell Co., Ltd., P.R. China)

5. **Outage Probability Analysis of Linear Block Network Coding (LBNC) in Wireless Relay Networks**
   Wei Bao (Beijing University of Posts and Telecommunications, P.R. China); Wenbo Wang (Beijing University of Posts and Telecommunications, P.R. China); Hongmei Liu (Beijing University of Posts&Telecommunications (BUPT), P.R. China); Mugen Peng (Beijing University of posts & Telecommunications, P.R. China)

6. **Constellation Selection in Network Coded Distributive Antenna System**
   Tafzeel ur Rehman Ahsin (Royal Institute of Technology KTH, Sweden); S. Ben Slimane (KTH, Sweden)

**WCS-35: Diversity Techniques**

Chair: Hamid Jafarkhani (University of California, Irvine, USA)

Room: 03

1. **Predictive Transmit Antenna Selection with Maximal Ratio Combining**
   Shiva Prakash (Nanyang Technological University, Singapore); Ian McLoughlin (Nanyang Technological University, Singapore)

2. **Antenna Diversity for a Mobile Terminal: Theory, Simulation and Measurement**
   Bin Guo (Illinois Institute of Technology, USA); Chi Zhou (Illinois Institute of Technology, USA); Yu Cheng (Illinois Institute of Technology, USA)

3. **Exploiting the Interference Diversity Gain in Frequency Domain: The UMTS LTE Scenario**
   Alireza Attar (University of British Columbia, Canada); Vikram Krishnamurthy (University of British Columbia, Canada)

4. **The Impact of Noise on Switching Rate of L-fold Selection Diversity**
   Xin Wang (University of Alberta, Canada); Norman Beaulieu (University of Alberta, Canada)

5. **Asymptotic Performance Analysis of Optimum Combining for Dense Multiple Antenna Reception Under Rayleigh Fading**
   Payam Dehghani Rahimzadeh (University of Alberta, Canada); Norman Beaulieu (University of Alberta, Canada)

6. **Optimal Use of Antennas in Interference Networks: A Tradeoff between Rate, Diversity and Interference Alignment**
   Aydin Sezgin (University of California Irvine, USA); Syed Jafar (University of California Irvine, USA); Hamid Jafarkhani (University of California, Irvine, USA)
WCS-36: Interference Suppression and Cancellation
Chair: TBD
Room: 04

1. *Frequency Domain Hybrid--ARQ Chase Combining for Broadband MIMO Communication with Co-Channel Interference*
   Tarik Ait-idir (INPT, Morocco); Houda Chafnaji (INPT Rabat/Telecom Bretagne, Morocco); Samir Saoudi (Telecom-Bretagne, France)

2. *Degrees of Freedom of Multiple Broadcast Channels in the Presence of Inter-Cell Interference*
   Seok-Hwan Park (Korea University, Korea); Inkyu Lee (Korea University, Korea)

3. *Performance of STBC with Unequal-Power Co-Channel MIMO Interferers Under Path Loss and Rayleigh Fading*
   Lu Zhang (University of Delaware, USA); Yongzhao Li (Xidian University, P.R. China); Len Cimini (University of Delaware, USA); Nageen Himayat (Intel Corporation, USA)

4. *Uplink Interference Management for HSPA+ and 1xEVDO Femtocells*
   Yeliz Tokgoz (Qualcomm, Inc., USA); Farhad Meshkati (QUALCOMM Inc., USA); Yan Zhou (Qualcomm, USA); Mehmet Yavuz (Qualcomm, USA); Sanjiv Nanda (Qualcomm, Inc, USA)

5. *Interference Subspace Tracking for Network Interference Alignment in Cellular Systems*
   Bo Niu (New Jersey Institute of Technology, USA); Alexander Haimovich (NJIT, USA)

6. *Adaptive Random Beamforming with MMSE Interference Suppression and Beam Selection*
   Young-Jun Hong (Samsung Electronics Co., Ltd., Korea); Su Min Kim (Korea Advanced Institute of Science and Technology, Korea); Dan Keun Sung (Korea Advanced Institute of Science and Technology, Korea)

WNS-18: Power Saving and Energy Awareness
Chair: Ehssan Sakhaee (Osaka University, Japan)
Room: 07

1. *A Transmission Range Reduction Scheme for Reducing Power Consumption in Clustered Wireless Sensor Networks*
   Ehssan Sakhaee (Osaka University, Japan); Naoki Wakamiya (Osaka University, Japan); Masayuki Murata (Osaka University, Japan)

2. *Adaptive Asynchronous Clock based Power Saving Protocols for Delay Tolerant Networks*
   Bong Jun Choi (University of Waterloo, Canada); Sherman Shen (University of Waterloo, Canada)

3. *Improvement of Capacity and Energy Saving of VoIP over IEEE 802.11 WLANs by A Dynamic Sleep Strategy*
   Xinbing Wang (Shanghai Jiaotong University, P.R. China); Hsiao-Hwa Chen (National Cheng Kung University, Taiwan)

4. *Joint Optimization of Power Saving Mechanism in the IEEE 802.16e Mobile WiMAX*
   Gary K. W. Wong (Hong Kong University of Science and Technology, Hong Kong); Qian Zhang (Hong Kong University of Science and Technology, Hong Kong); Danny H. K. Tsang (Hong Kong University of Science and Technology, Hong Kong)

5. *Energy Efficient Distributed Relay Selection in Wireless Cooperative Networks with Finite State Markov Channels*
   Yifei Wei (Beijing University of Posts and Telecommunications, P.R. China); F. Richard Yu (Carleton University, Canada); Mei Song (Professor, P.R. China); Victor Leung (The University of British Columbia, Canada)
6. **Randomized Multi-Channel Interrogation Algorithm for Large-Scale RFID Systems**  
Amir Hamed Mohsenian Rad (University of British Columbia, Canada); Vahid Shah-Mansouri (University of British Columbia, Canada); Vincent Wong (University of British Columbia, Canada); Robert Schober (University of British Columbia, Canada)

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Chair: Abdelhamid Mellouk (University Paris XII, France)
Room: 08

1. **Greedy Sub-channel Redistribution Routing Scheme in Multi-hop Wireless OFDMA Networks**  
Weiwei Wang (University of Manitoba, Canada); Jun Cai (University of Manitoba, Canada); Attahiru Alfa (University of Manitoba, Canada)

2. **On the Efficiency of Random Walk Routing in Multihop Wireless Network**  
Yanhua Li (Beijing University of Posts and Telecommunications, P.R. China)

3. **SARP – A Novel Multi-Copy Routing Protocol for Intermittently Connected Mobile Networks**  
Ahmed Elwhishi (University of Waterloo, Canada); Pin-Han Ho (University of Waterloo, Canada)

4. **Back-Pressure Routing and Optimal Scheduling in Wireless Broadcast Networks**  
Qiao Li (Carnegie Mellon University, USA); Rohit Negi (Carnegie Mellon University, USA)

5. **Compatibility between Optimal Tree-based Broadcast Routing and Metric Design**  
Chuan Han (Virginia Polytechnic Institute and State University, USA); Yaling Yang (Virginia Tech, USA)

6. **New Theoretical Studies and Optimal Cluster-Population Determination for Hierarchical Networks**  
Shih Yu Chang (National Tsing Hua University of Taiwan, Taiwan); Hsiao-Chun Wu (Louisiana State University, USA); Yiyan Wu (Communications Research Centre, Canada)

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Chair: Seshadri Mohan (University of Arkansas at Little Rock, USA)
Room: 09

1. **Distributed Physical Carrier Sensing Adaptation Scheme in Cooperative MAP WLAN**  
Yao Hua (Tsinghua University, P.R. China); Qian Zhang (Hong Kong University of Science and Technology, Hong Kong); Zhisheng Niu (Tsinghua University, P.R. China)

2. **Local Estimation of Probabilities of Direct and Staggered Collisions in 802.11 WLANs**  
Michael Krishnan (University of California, Berkeley, USA); Sofie Pollin (IMEC / UC Berkeley, USA); Avideh Zakhor (University of California at Berkeley, USA)

3. **Performance Analysis of Selfish Access Strategies on WiFi Infrastructure Networks**  
Laura Giarré (Università degli Studi di Palermo, Italy); Giovanni Neglia (INRIA Sophia Antipolis, France); Ilenia Timirello (University of Palermo, Italy)

4. **A Packet Scheduling Algorithm for Optimizing Downlink Throughput in Wireless LANs with the One- Sender-Multiple-Receiver Technique**  
Zhenghao Zhang (Florida State University, USA); Steven Bronson (Florida State University, USA)

5. **Analysis of Asynchronous Multi-Packet Reception in 802.11 Distributed Wireless Networks**  
Fulvio Babich (University of Trieste, Italy); Massimiliano Comiso (University of Trieste, Italy)

6. **Efficient Broadcasting in IEEE 802.11 Networks through Irresponsible Forwarding**  
Stefano Busanelli (Università degli studi di Parma, Italy); Gianluigi Ferrari (University of Parma, Italy); Sooksan Panichpapiboon (King Mongkut's Institute of Technology Ladkrabang, Thailand)
## WNS-23: Network Performance Optimization (Poster)

**Chair:** Wenye Wang (NC State University, USA)  
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1. **Cooperation-Multiuser Diversity Tradeoff in Wireless Cellular Networks**  
   Zheng Wang (University of California, Santa Cruz, USA); Mingyue Ji (University of California, Santa Cruz, USA); Hamid Sadjadpour (University of California, Santa Cruz, USA); JJ Garcia-Luna-Aceves (University of California at Santa Cruz, USA)

2. **Effective Cell Size Scheme in Multi-hop Cellular Networks**  
   Hung Tam (Queen's University, Canada); Robert Benkoczi (Queen's University, Canada); Hossam Hassanein (Queen's University, Canada); Selim Akl (Queen's University, Canada)

3. **HTSMA: a Hybrid Temporal-Spatial Multi-Channel Assignment Scheme in Heterogeneous Wireless Mesh Networks**  
   Yan Jin (University of Nevada, Las Vegas, USA); Ju-Yeon Jo (University of Nevada, Las Vegas, USA); Mei Yang (University of Nevada, Las Vegas, USA); Yingtao Jiang (University of Nevada, Las Vegas, USA)

4. **A Cognitive Approach for Performance Enhancement of Wireless Mesh Networks**  
   Farshad Javadi (University of Sydney, Australia); Abbas Jamalipour (University of Sydney, Australia)

5. **Q-DRAM: QoE-based Dynamic Rate Adaptation Mechanism for Multicast in Wireless Networks**  
   Kandaraj Piamrat (INRIA, France); Adlen Ksentini (University of Rennes 1 / IRISA Lab, France); Jean-Marie Bonnin (Telecom Bretagne, France); César Viho (University of Rennes I, France)

6. **Capacity of Wireless Networks with Heterogeneous Traffic**  
   Mingyue Ji (University of California, Santa Cruz, USA); Zheng Wang (University of California, Santa Cruz, USA); Hamid Sadjadpour (University of California, Santa Cruz, USA); JJ Garcia-Luna-Aceves (University of California at Santa Cruz, USA)