### AHSN-10: Routing & Resource Management in WMNs

**Chair:** Dharma Agrawal (Univ. of Cincinnati, USA), Brahim Bensaou (Hong Kong Univ. of Science and Tech.)  
**Room:** 05

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    | Bing He (University of Cincinnati, USA); Dharma Agrawal (University of Cincinnati, USA) |
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    | Ka Lok Hung (The Hong Kong University of Science and Technology, Hong Kong); Brahim Bensaou (The Hong Kong University of Science and Technology, Hong Kong) |
| 3. | **Channel Assignment Exploiting Partially Overlapping Channels for Wireless Mesh Networks**  
    | Cheng Li (Memorial University of Newfoundland, Canada); Ramachandran Venkatesan (Memorial University of Newfoundland, Canada); Yuting Liu (Memorial University, Canada) |
| 4. | **User Density Sensitive P2P Streaming in Wireless Mesh Networks**  
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| 6. | **Graph-based Approach for Enhancing Capacity and Fairness in Wireless Mesh Networks**  
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**Chair:** John Cioffi (Stanford University, USA), Mohammad Hoque (The University of Alabama, USA)  
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    | Xiaoyuan Ta (The University of Sydney, Australia); Guoqiang Mao (The University of Sydney, Australia); Brian Anderson (Australian National University, Australia) |
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| 3. | **Cooperative Strategy by Stackelberg Games under Energy Constraint in Multi-hop Relay Networks**  
    | Hyukjoon Kwon (Stanford University, USA); HyungJune Lee (Stanford University, USA); John Cioffi (Stanford University, USA) |
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    | Nikolaj Marchenko (Klagenfurt University, Austria); Evsen Yannaz (University of Klagenfurt, Austria); Helmut Adam (University of Klagenfurt, Austria); Christian Bettstetter (University of Klagenfurt, Austria) |
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**Chair:** Hossam Hassanein (Queen's University, Canada), Abbas Jamalipour (University of Sydney, Australia)  
**Room:** 07

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   Yu-Hsun Chen (National Taiwan University, Taiwan); Chia-Cheng Hu (Naval Academy, Taiwan); Hsiao-Kuang Wu (National Central University, Taiwan); Gen-Huey Chen (National Taiwan University, Taiwan)

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   Yaozhou Ma (The University of Sydney, Australia); Abbas Jamalipour (University of Sydney, Australia)

3. **Efficient Multipoint P2P File Sharing in MANETs**  
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4. **Self Pruning Broadcasting for Mobile Ad Hoc Networks**  
   Wilson Woon (The University of Hong Kong, Hong Kong); Kwan Yeung (University of Hong Kong, Hong Kong)

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   André König (Technische Universität Darmstadt, Germany); Daniel Seither (Technische Universität Darmstadt, Germany); Ralf Steinmetz (Technische Universität Darmstadt, Germany); Matthias Hollick (Universidad Carlos III de Madrid, Germany)

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   Fei Wang (Carleton University, Canada); Helen Tang (DRDC Ottawa, Canada); F. Richard Yu (Carleton University, Canada)

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Chair: Martine Bellaïche (École Polytechnique, Canada)
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   Dzmitry Kliazovich (University of Trento (Italy), Italy); Fabrizio Granelli (University of Trento, Italy); Nelson L. S. da Fonseca (State University of Campinas, Brazil); Radoslaw Piesiewicz (Create-Net, Italy)

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2. **Random Linear Network Coding for Time-Division Duplexing: Field Size Considerations**  
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3. **Achieving Lower Distortion with Lattice Strategies in Multicast Wireless Networks**  
   Ao Zhan (Shanghai Jiao Tong University, P.R. China); Chen He (Shanghai Jiaotong University, P.R. China); Lingge Jiang (Shanghai Jiaotong University, P.R. China)

4. **Joint Scheduling and Instantaneously Decodable Network Coding**  
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**Room:** Poster Area

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<td>Petar Popovski (Aalborg University, Denmark); Zoran Utkovski (University of Ulm, Germany)</td>
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<td>Manuel Crotti (Universita' di Brescia, Italy); Francesco Gringoli (University of Brescia, Italy); Luca Salgarelli (University of Brescia, Italy)</td>
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<td>2</td>
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<td>Yi Sun (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China)</td>
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<td>Robust Traffic Engineering Using Multi-Topology Routing</td>
<td>Xiong Wang (University of Electronic Science and Technology, P.R. China); Sheng Wang (University of Electronic Science and Technology of China, P.R. China); Shizhong Xu (Univ. of electronic science and technology, P.R. China); Le Min Li (University of Electronic Science and Technology of China, P.R. China)</td>
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<td>4</td>
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<td>Meng Wang (Cornell University, USA); Chee Wei Tan (California Institute of Technology, USA); Kevin Tang (Cornell University, USA); Steven Low (California Institute of Technology, USA)</td>
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   Oriol Bertran-Pardo (Telecom Paristech (ENST-Paris), France); Jérémie Renaudier (Bell Labs, Alcatel-Lucent, France); Gabriel Charlet (Bell Labs, Alcatel-Lucent, France); Patrice Tran (Bell Labs, Alcatel-Lucent, France); Haïk Mardoyan (Bell Labs, Alcatel-Lucent, France); Massimiliano Salsi (Bell Labs, Alcatel-Lucent, France); Marco Bertolini (Università degli Studi di Parma, Italy); Sébastien Bigo (Bell Labs, Alcatel-Lucent, France)

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   Daniel Fritzsche (Dresden University of Technology, Germany); Dirk Breuer (T-Systems, Germany); Lars Schuerer (Deutsche Telekom Netzproduktion GmbH, Germany); Armin Ehrhardt (Deutsche Telekom Netzproduktion GmbH, Germany); Hamdi Oeruen (CoreOptics GmbH, Germany); Christian Schaeffer (technische Universität Dresden, Germany)

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   Liang Chen (University of Melbourne, Australia); Brian Krongold (University of Melbourne, Australia); Jamie Evans (University of Melbourne, Australia)

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2. **Joint Dynamics of Spectrum Allocation and User Behavior in Spectrum Markets**
   Yuki Saito (Kyoto University, Japan); Koji Yamamoto (Kyoto University, Japan); Hidekazu Murata (Kyoto University, Japan); Susumu Yoshida (Graduate School of Informatics, Kyoto University, Japan)
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5. **Cognitive MIMO Radio: Incorporating Dynamic Spectrum Access in Multiuser MIMO Network**  
   Harpreet Singh Dhillon (Virginia Tech, USA); Michael Buehrer (Virginia Tech, USA)

   Yogesh Reddy Kondareddy (Auburn University, USA); Prathima Agrawal (Auburn University, USA)

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2. **Design and evaluation of a wireless body sensor system for smart home health monitoring**  
   Chao Chen (Indiana University Purdue University Fort Wayne, USA); Carlos Pomalaza-Ráez (University of Oulu, Finland)

3. **Minimum-cost Implementation of Traffic Information System over Wireless Mesh Network**  
   Kaveh Shafiee (The University of British Columbia, Canada); Victor Leung (The University of British Columbia, Canada)

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5. **A Measurement Study of External Links of YouTube**  
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**Chair:** TBD  
**Room:** 01

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<td>Chang-Ick Song (Korea University, Korea); Kyoung-Jae Lee (Korea University, Korea); Inkyu Lee (Korea University, Korea)</td>
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**Room:** 02

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6. **Achieving Close-Capacity Performance with Simple Concatenation Scheme on Multiple-Antenna Channels**  
Nghi Tran (McGill University, Canada); Tho Le-Ngoc (McGill University, Canada); Tadashi Matsumoto (CWC - Oulu, Finland); Ha Nguyen (University of Saskatchewan, Canada)

**WCS-40: Topics in Wireless Communications II (Poster)**  
Chair: TBD  
Room: Poster Area

1. **Linear Equalizers for Quasi-synchronous Block Spreading CDMA Systems**  
Mohammud Bocus (University of Bristol, United Kingdom); Yue Wang (Toshiba Research Europe Limited, United Kingdom); Justin Coon (Toshiba TRL, United Kingdom)

2. **Convergence Analysis of Turbo Equalization in ST Block-Coded MIMO Systems**  
Chandika Wavegedara (Senior Lecturer, Sri Lanka); Vijay Bhargava (University of British Columbia, Canada)

3. **An Accurate Model For Interference From Spatially Distributed Shadowed Users in CDMA Uplinks**  
Neelesh Mehta (Indian Institute of Science, India); Sarabjot Singh (Indian Institute of Technology, Guwahati, India); Andreas Molisch (University of Southern California, USA)

4. **Novel Reliability-Based Hybrid ARQ Technique**  
Ahmad Gomaa (University of Texas at Dallas, USA); Mohammed Nafie (Cairo University, Egypt); Mohamed Abdallah (Cairo University, Egypt)

5. **Pilot Power Protocol for Autonomous Infrastructure based Multihop Cellular Networks**  
Mark DeFaria (University of Toronto, Canada)

Wei Song (University of California, Berkeley, USA); Weihua Zhuang (University of Waterloo, Canada)
WNS-07: Scheduling
Chair: Rose Qingyang Hu (Mississippi State University, USA)
Room: 08

1. **A Low-Complexity Beamforming-Based Scheduling for Downlink OFDMA/SDMA Systems with Multimedia Traffic**
   Wen-Ching Chung (National Chiao Tung University, Taiwan); Li-Chun Wang (National Chiao Tung University, Taiwan); Chung-Ju Chang (National Chiao Tung University, Taiwan)

2. **A Simple Greedy Algorithm for Link Scheduling with the Physical Interference Model**
   Dejun Yang (Arizona State University, USA); Xi Fang (Arizona State University, USA); Nan Li (Arizona State University, USA); Guoliang Xue (Arizona State University, USA)

3. **Joint Link Scheduling and Routing for Directional-Antenna Based 60 GHz Wireless Mesh Networks**
   Xi Zhang (Texas A&M University, ECE Department, USA); Hang Su (Texas A&M University, USA)

4. **Secondary User Friendly TDMA Scheduling in Opportunistic Spectrum Access Networks**
   Xi Zhang (Texas A&M University, ECE Department, USA); Hang Su (Texas A&M University, USA)

5. **Long Term Fair Scheduling in a Cognitive Wireless Network with Spectrum Underlay**
   Bin Wang (McMaster University, Canada); Dongmei Zhao (McMaster University, Canada)

6. **Localized Scheduling for Practical and Optimal Capacity Utilization in Large Wireless Networks**
   Yi Xu (North Carolina State University, USA); Wenye Wang (NC State University, USA)

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WNS-08: Testbeds and Experimental Measurements
Chair: Rosario Garroppo (University of Pisa, Italy)
Room: 09

1. **QOMB: A Wireless Network Emulation Testbed**
   Razvan Beuran (National Institute of Information and Communications Technology, Japan); Lan Tien Nguyen (Japan Advanced Institute of Science and Technology, Japan); Toshiyuki Miyachi (National Institute of Information and Communications Technology, Japan); Junya Nakata (National Institute of Information and Communications Technology, Japan); Ken-ichi Chinen (Japan Advanced Institute of Science and Technology, Japan); Yasuo Tan (JAIST, Japan); Yoichi Shinoda (Japan Advanced Institute of Science and Technology, Japan)

2. **Rapidly-Deployable Mesh Network Testbed**
   Michael Souryal (National Institute of Standards and Technology, USA); Andreas Wapf (National Institute of Standards and Technology, USA); Nader Moayeri (NIST, USA)

3. **Implication Of MAC Frame Aggregation On Empirical Wireless Experimentation**
   Gautam Bhanage (Rutgers University, USA); Rajesh Mahindra (NEC Labs America, USA)

4. **Multicast Mobility in Heterogeneous Technologies: Experimental Validation**
   Susana Sargento (Instituto de Telecomunicações, Universidade de Aveiro, Portugal, Portugal); David Wagner (Fraunhofer FOKUS Institute, Germany); Jose Rocha (Instituto de Telecomunicações, Aveiro, Portugal); Fabio Mitrano (Università di Roma "La Sapienza", Italy); Janusz Gozdecki (AGH University of Science and Technology, Poland); Jens Mödeker (Fraunhofer FOKUS Institute, Germany)

5. **Impact of TCP ACK Losses on TCP Fairness in Wireless Mesh Networks**
   Jaeyong Yoo (Gwangju Institute of Science and Technology, Korea); JongWon Kim (GIST (Gwangju Institute of Science & Technology), Korea)
6. **An Autonomous Cognitive Access Point for Wi-Fi Hotspots**
Bheemarjuna Reddy Tamma (University of California, San Diego, USA); Manoj Bs (University of California, San Diego, USA); Ramesh Rao (University of California at San Diego, USA)

### 14:00 - 16:00

**AHSN-13: Modeling of Ad Hoc Networks**
Chair: Weihua Zhuang (University of Waterloo, Canada), Amr Youssef (Concordia University, Canada)
Room: 05

1. **Modeling the Throughput and Delay in Wireless Multihop Ad-Hoc Networks**
   Ahmad Abdullah (University of Victoria, Canada); Fayez Gebali (The University of Victoria, Canada); Lin Cai (University of Victoria, Canada)

2. **Modeling IEEE 802.11 DCF using Parallel Space – Time Markov Chain: Multi-Hop Ad Hoc Networks**
   Kaveh Ghaboosi (University of Oulu, Finland); Matti Latva-aho (UoOulu, Finland); Yang Xiao (The University of Alabama, USA); Babak Hossein Khalaj (Sharif University of Technology, Iran)

3. **On Reducing Blocking Probability in Cooperative Ad-hoc Networks**
   Ayda Basyouuni (Concordia University, Canada); Walaa Hamouda (Concordia University, Canada); Amr Youssef (Concordia University, Canada)

4. **Modeling and Analysis for Emergency Messaging Delay in Vehicular Ad Hoc Networks**
   Khadige Abboud (University of Waterloo, Canada); Weihua Zhuang (University of Waterloo, Canada)

5. **On Hopping Strategies for Autonomous Wireless Networks**
   Pedro Nardelli (University of Oulu, Finland); Giuseppe Abreu (CWC, University of Oulu, Finland)

6. **Optimality Bounds of the Connectivity of Adhoc Networks with Beamforming Antennas**
   Moritz Kiese (TU München, Germany); Christian Hartmann (Technische Universität München, Germany); Robert Vilzmann (TU München, Germany)

**AHSN-14: Vehicular Ad Hoc Networks**
Chair: Sherman Shen (University of Waterloo, Canada), Victor Leung (University of British Columbia, Canada)
Room: 06

1. **Periodic Broadcast Type Timing Reservation MAC Protocol for Inter-Vehicle Communications**
   Kenji Ito (Toyota Central Research and Development Laboratories, Inc., Japan)

2. **Information Dissemination Control for Cooperative Active Safety Applications in Vehicular Ad-Hoc Networks**
   Ching-Ling Huang (University of California at Berkeley, USA); Yaser Pourmohammadi-Fallah (University of California at Berkeley, USA); Raja Sengupta (University of California at Berkeley, USA); Harilaran Krishnan (General Motors, USA)

3. **MAAC: Message Authentication Acceleration Protocol for Vehicular Ad Hoc Networks**
   Albert Wasef (University of Waterloo, Canada); Sherman Shen (University of Waterloo, Canada)

4. **Mobility-based Clustering in VANETs using Affinity Propagation**
   Christine Shea (University of Toronto, Canada); Behnam Hassanabadi (University of Toronto, Canada); Shahrokh Valaee (University of Toronto, Canada)

5. **Position-based Directional Vehicular Routing**
   Daxin Tian (University of British Columbia, Canada); Victor Leung (The University of British Columbia, Canada)
6. **Adaptive Message Routing with QoS support in Vehicular Ad Hoc Networks**  
Hanan Saleet (University of Waterloo, Canada); Rami Langar (UPMC - Paris Universitas, France); Otman Basir (University of Waterloo, Canada); Raouf Boutaba (University of Waterloo, Canada)

### AHSN-15: Medium Access Control  
Chair: Vojislav Misic (Ryerson Univ., Canada), JJ Garcia-Luna-Aceves (Uni. of California at Santa Cruz, USA)  
**Room:** 07

1. **CoRe-MAC: A MAC-Protocol for Cooperative Relaying in Wireless Networks**  
Helmut Adam (University of Klagenfurt, Austria); Wilfried Elmenreich (Klagenfurt University, Austria); Christian Bettstetter (University of Klagenfurt, Austria); Sidi-Mohammed Senouci (France Telecom R&D, France)

2. **Trading Delay for Fairness in MAC Design for Cognitive Personal Area Networks**  
Jelena Misic (University of Manitoba, Canada); Vojislav Misic (Ryerson University, Canada)

3. **Collision-Free Asynchronous Multi-Channel Access in Ad Hoc Networks**  
Duy Nguyen (University of California Santa Cruz, USA); JJ Garcia-Luna-Aceves (University of California at Santa Cruz, USA); Katia Obrazczka (University of California, Santa Cruz, USA)

4. **Feedback based Real-time MAC (RT-MAC) protocol for wireless sensor networks**  
Brajendra kumar Singh (University of Windsor, Canada); Kemal Tepe (University of Windsor, Canada)

5. **Adaptive Probabilistic Medium Access in MPR-Capable Ad-hoc Wireless Networks**  
Majid Ghanbarinejad (University of Alberta, Canada); Christian Schlegel (University of Alberta, Canada); Pawel Gburzynski (University of Alberta, Canada)

Hieu Dinh (Waseda University, Japan); Shigeru Shimamoto (Waseda University, Japan)

### CISS-05: Cryptographic Algorithms and Protocols  
Chair: Nei Kato (Tohoku University, Japan)  
**Room:** 16

1. **Secret-sharing based secure communication protocols for passive RFIDs**  
Harsh Kapoor (Arizona State University, USA); Dijiang Huang (Arizona State University, USA)

2. **ASIC: Aggregate Signatures and Certificates Verification Scheme for Vehicular Networks**  
Albert Wasef (University of Waterloo, Canada); Sherman Shen (University of Waterloo, Canada)

3. **A Group-Based Key Management Protocol for Mobile Ad Hoc Networks**  
Qing Chen (Tohoku University, Japan); Xiaodong Lin (University of Ontario Institute of Technology, Canada); Sherman Shen (University of Waterloo, Canada); Kazuo Hashimoto (Tohoku University, Japan); Nei Kato (Tohoku University, Japan)

4. **Adding Integrity Verification Capabilities to the LDPC-Staircase Erasure Correction Codes**  
Mathieu Cunche (INRIA Rhône-Alpes, France); Vincent Roca (INRIA Rhône-Alpes, France)

5. **Secure RFID Authentication with Efficient Key-Lookup**  
Mete Akgün (Tubitak UEKAE, Turkey); M. Ufuk Caglayan (Bogazici University, Turkey); Emin Anarim (Bogazici University, Turkey)

6. **A New Construction of Knapsack PKC By Using A Random Sequence**  
Yasuyuki Murakami (Osaka Electro-Communication University, Japan)
**CISS-09: Topics in Communication and Information System Security (Poster)**  
Chair: Zhu Han (University of Houston, USA)  
Room: Poster Area

1. **DAKS: An Efficient Batch Rekeying Scheme for Departure-Aware Multicast Services**  
Yang Ji (Seoul National University, Korea); Seung-Woo Seo (Seoul National University, Korea, Korea)

2. **VisualSec: a secure message delivery scheme for online social networks based on profile images**  
Meng Ge (Tsinghua University, P.R. China)

3. **Practical Set Constructions Using Randomized Templates for Pervasive Biometric Security**  
Jinyang Shi (Tsinghua University, P.R. China)

4. **An Efficient Key Management Scheme for Live Streaming**  
Xingyu Li (University of Alberta, Canada); Hong Zhao (University of Alberta, Canada)

5. **A Game Theoretic Analysis of Blacklisting in Online Data Storage Systems**  
Bader Ali (McGill University, Canada); Muthucumaru Maheswaran (McGill University, Canada)

6. **On Privacy of Skype VoIP Calls**  
Ye Zhu (Cleveland State University, USA); Yuanchao Lu (Cleveland State University, USA); Anil Babu Vikram (Cleveland State University, USA)

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**CQPRM-05: Network Modeling**  
Chair: Noriaki Kamiyama (NTT Service Integration Laboratories, Japan)  
Room: 17

1. **Performance Analysis of Communication Networks in Multi-Cluster Systems under Bursty Traffic with Communication Locality**  
Yulei Wu (University of Bradford, United Kingdom); Geyong Min (University of Bradford, United Kingdom)

2. **Performance Analysis of IEEE 802.11 Ad hoc Networks with Cooperative ARQ in the Presence of Hidden and Exposed Terminals**  
Georgios Kormentzas (University of the Aegean, Greece); Jesus Alonso-Zarate (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Spain); Luis Alonso (Universidad Politecnica de Catalunya, Spain); Christos Verikoukis (Telecommunications Technological Centre of Catalonia, Spain)

3. **Network Topology Discovery through Self-Constrained Decisions**  
Gianni Antichi (University of Pisa, Italy); Andrea Di Pietro (University of Pisa, Italy); Domenico Ficara (University of Pisa, Italy); Stefano Giordano (University of Pisa, Italy); Gregorio Procissi (Università di Pisa, Italy); Fabio Vitucci (University of Pisa, Italy)

4. **Bridging the Gap between Mathematical Traffic Models and Operational Parameters**  
Kristof Sleurs (Katholieke Universiteit Leuven, Belgium); Dagang Li (Katholieke Universiteit Leuven, Belgium); Emmanuel Van Lil (Katholieke Universiteit Leuven, Belgium); Antoine Van de Capelle (Katholieke Universiteit Leuven, Belgium)

5. **The Engset formula in packet switching: When is and when isn't lengthening the off-time redundant?**  
Andrew Zalesky (The University of Melbourne, Australia); Moshe Zukerman (City University of Hong Kong, Hong Kong); Eric Wong (City University of Hong Kong, Hong Kong); Hai Le Vu (University of Melbourne, Australia)

6. **Stochastic Network Calculus Models under Max-Plus Algebra**  
Jing Xie (Norwegian University of Science and Technology (NTNU), Norway); Yuming Jiang (Norwegian University of Science and Technology (NTNU), Norway)
CQPRM-06: Cross-layer Design
Chair: Yannis Viniotis (North Carolina State University, USA)
Room: 18

1. **Optimize aggregate throughput in 802.11 networks through balancing spatial reuse and transmission rate**
   Junmei Qu (Tianjin University, P.R. China); Lianfang Zhang (Tianjin University, P.R. China); Yantai Shu (Tianjin University, P.R. China)

2. **Experimental Performance Evaluation of a MAC protocol for Cooperative ARQ Scenarios**
   Christos Verikoukis (Telecommunications Technological Centre of Catalonia, Spain); Ana Perez-Neira (UPC, Spain); Jesus Alonso-Zarate (Centre Tecnològic de Telecomunicacions de Cataluny (CTTC), Spain); Harry Skianis (University of the Aegean, Greece)

3. **Joint Power Control and FEC Unequal Error Protection for Scalable H.264 Video Transmission over Wireless Fading Channels**
   Chen Chi (Tsinghua University, P.R. China); Yu Zhang (Tsinghua University, P.R. China)

4. **Cross-layer design for wireless video streaming**
   Yongjin Cho (University of Southern California, USA); C.-C. Jay Kuo (University of Southern California, USA); Renxiang Huang (Digital Media Innovation, DMI - Sprint Labs, USA); Claudio Lima (Digital Media Innovation, DMI - Sprint Labs, USA)

5. **Social Distance Aware Resource Allocation in Wireless Networks**
   Vineet Kulkarni (NC State University, USA); Michael Devetsikiotis (North Carolina State University, USA)

6. **Load Balancing for Parallel Processing Systems in CMP Platform**
   Tingwen Liu (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Yong Sun (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Zhang Bin (Institute of Computing Technology, Chinese Science Academy, China, P.R. China); Li Guo (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China)

CSS-05: Quality of Experience (QoE) and QoS (Quality of Service)
Chair: TBD
Room: 13

1. **Hybrid Tree Based Explicit Routed Multicast for QoS Supported IPTV Service**
   Chih-Chao Wen (National Chung Cheng University, Taiwan); Cheng-Shong Wu (National Chung-Cheng University, Taiwan); Ming-Ta Yang (Information and Communication Research Lab., ITRI, Taiwan)

2. **On Locating Loss Links of Signaling Messages in SIP-based Services**
   Takeshi Usui (KDDI R&D Laboratory, Japan); Takeshi Kubo (KDDI R&D Laboratories, Inc., Japan); Yoshinori Kitatsuji (KDDI R&D Laboratories, Inc., Japan); Teruyuki Hasegawa (KDDI R&D Laboratories Inc., Japan); Hidetoshi Yokota (KDDI Labs, Japan)

3. **On the Objective Evaluation of Real-Time Networked Games**
   Arnaud Kaiser (University of Paris 13, France); Dario Maggiorini (University of Milano, Italy); Khaled Boussetta (University of Paris 13, France); Nadjib Achir (University of Paris 13, France)

4. **Incorporating TCP Acknowledgements in MAC Layer in IEEE 802.11 Multihop Ad Hoc Networks**
   Xinbing Wang (Shanghai Jiaotong University, P.R. China)
5. **Efficient Resource Reservation for Optical Burst Switching Networks**  
Walid Abdallah (CN&S Research Lab., Tunisia); Mohamed Hamdi (Carthage University, Tunisia); Noureddine Boudriga (University of Carthage, Tunisia); Mohammad S. Obaidat (Monmouth University, USA)

6. **Modeling and Characterizing User Experience in a Cloud Server Based Mobile Gaming Approach**  
Shaoxuan Wang (University of California, San diego, USA); Sujit Dey (University of California, San Diego, USA)

**CTS-05: Channel Coding**  
Chair: TBD  
Room: 12

1. **Coding for a Bit-Shift Channel With Applications to Inductively Coupled Channels**  
Eirik Rosnes (University of Bergen, Norway); Angela Isabel Barbero Diez (University of Valladolid, Spain); Øyvind Ytrehus (University of Bergen, Norway)

2. **Performance Bounds for Linear Codes in Multi-Rate Superposition Schemes**  
Uttam Bhat (Arizona State University, USA); Dario Fertonani (Arizona State University, Italy); Tolga Duman (Arizona State University, USA)

3. **Design and Analysis of Non-binary LDPC and IRA Modulation Codes**  
Mao-Ching Chiu (National Chung Cheng University, Taiwan)

4. **Spectral Graph Analysis of Quasi-Cyclic Codes**  
Roxana Smarandache (San Diego State University, USA); Mark Flanagan (University College Dublin, Ireland)

5. **On Asymptotic Ensemble Weight Enumerators of Multi-Edge Type Codes**  
Chung-Li Wang (University of California, Davis, USA); Marc Fossorier (Etis Ensea, France); Shu Lin (UC Davis, USA)

6. **A Systematic Reed-Solomon Encoder with Arbitrary Parity Positions**  
Joschi Brauchle (Technische Universität München, Germany); Ralf Koetter (Technical University of Munich, Germany, Germany)

**NGNI-05: Routing & Switching - II**  
Chair: TBD  
Room: 11

1. **Performance Evaluation of Selected Packet Dispatching Schemes for the CBC Switches**  
Janusz Kleban (Poznan University of Technology, Poland)

2. **DROP: An Open-Source Project towards Distributed SW Router Architectures**  
Roberto Bruschi (University of Genoa, Italy); Raffaele Bolla (University of Genoa, Italy); Andrea Ranieri (University of Genova, Italy); Guerino Lamanna (Università di Genova, Italy)

3. **An Experimental Evaluation of the Computational Cost of a DPI Traffic Classifier**  
Niccolò Cascarano (Politecnico di Torino, Italy); Alice Este (University of Brescia, Italy); Francesco Gringoli (University of Brescia, Italy); Fulvio Risso (Politecnico di Torino, Italy); Luca Salgarelli (University of Brescia, Italy)

4. **Backlog Aware Scheduling for Ingress Memories in High-Radix, Single-Stage Switches**  
Dimitrios Tsamis (Stanford University, USA); Benjamin Yolken (Stanford University, USA); Nicholas Bambos (Stanford University, USA); Wladek Olesinski (Sun Microsystems, USA); Hans Eberle (Sun Microsystems, USA); Nils Gura (Sun Microsystems Inc., USA)
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<td>Efficient Multicast Support in Buffered Crossbars using Networks-on-Chip</td>
<td>Lotfi Mhamdi (Delft University of Technology, The Netherlands)</td>
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<td>6</td>
<td>Packet-mode Asynchronous Scheduling Algorithm for Partially Buffered Crossbar Switches</td>
<td>Masoumeh Karimi (Florida International University, USA); Zhuo Sun (Florida International University, USA); Deng Pan (Florida International University, USA); Zesheng Chen (Florida International University, USA)</td>
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**ONS-05: Optical Wireless Transmission**  
Chair: Vincent Chan (Massachusetts Institute of Technology, USA)  
Room: 14  

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<td>Andrew Puryear (Massachusetts Institute of Technology, USA); Vincent Chan (Massachusetts Institute of Technology, USA)</td>
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<td>Path Loss Simulation of an Infrared Optical Wireless System for Aircrafts</td>
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<td>On the Distribution of the Sum of Gamma-Gamma Variates and Application in MIMO Optical Wireless Systems</td>
<td>Nestor Chatzidiamantis (Aristotle University of Thessaloniki, Greece); George Karagiannidis (Aristotle University of Thessaloniki, Greece)</td>
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<td>4</td>
<td>Behavior of Hybrid Optical/RF Channels over Varying Link Distances</td>
<td>Ricardo Luna (New Mexico State University, USA); Deva Borah (New Mexico State University, USA); Hrishikesh Tapse (New Mexico State University, USA)</td>
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<td>Performance Evaluation of an advanced DWDM RoFSO System for Heterogeneous Wireless</td>
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<td>6</td>
<td>Theoretical Analysis of Optical Wireless CDMA with Modified Pseudo Orthogonal M-sequence Sets</td>
<td>Yusuke Kozawa (Ibaraki University, Japan); Hiromasa Habuchi (Ibaraki University, Japan)</td>
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**SAC(CRN)-05: Physical Layer Techniques for Cognitive Radio Networks**  
Chair: Sumit Roy (University of Washington, USA)  
Room: 10  

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<td>1</td>
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<td>Haris Volos (Virginia Tech, USA); Michael Buehrer (Virginia Tech, USA)</td>
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<td>2</td>
<td>Receiver Statistics for Spectrum Monitoring While Communicating</td>
<td>James Frye (Clemson University, USA); Michael Pursley (Clemson University, USA); Thomas Royster (MIT Lincoln Laboratory, USA)</td>
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### Development Framework for Implementing FPGA-Based Cognitive Network Nodes
Jörg Lotze (Trinity College Dublin, Ireland); Suhaib Fahmy (Trinity College Dublin, Ireland); Juanjo Noguera (Xilinx, Inc., Ireland); Baris Ozgul (Trinity College Dublin, Ireland); Linda Doyle (Trinity College Dublin, Ireland); Robert Esser (Xilinx, Inc., USA)

### ICI-Minimizing Blind Uplink Time Synchronization for OFDMA-Based Cognitive Radio Systems
Ismail Guvenc (DoCoMo USA Labs, USA); Sibel Tombaz (University of South Florida, USA); Mustafa Sahin (University of South Florida, USA); Huseyin Arslan (University of South Florida, USA)

### A Combined Spectrum Sensing and OFDM Demodulation Scheme
Marnix Heskamp (University of Twente, The Netherlands); Cornelis Slump (University of Twente, The Netherlands)

### Exploiting the Multi-path Diversity and Multi-user Cooperation to Detect OFDM Signals for Cognitive Radio in Low SNR with Noise Uncertainty
Wei Zeng (Southeast University, P.R. China); Guangguo Bi (Southeast University, P.R. China)

### SAC(CRN)-09: Cognitive Radio Networks (Poster)
Chair: TBD
Room: Poster Area

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<td>Farzad Moghimi (University of British Columbia, Canada); Amir Nasri (University of British Columbia, Canada); Robert Schober (University of British Columbia, Canada)</td>
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<th>2.</th>
<th>Worst-Case Sensing Deception in Cognitive Radio Networks</th>
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<td>Qihang Peng (UCSD, USA); Pamela Cosman (University of California, San Diego, USA); Laurence Milstein (University of California, USA)</td>
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<th>3.</th>
<th>Spectrum Sensing by Cognitive Radios at Very Low SNR</th>
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<td>Zhi Quan (Qualcomm Inc., USA); Stephen Shellhammer (Qualcomm, USA); Wenyi Zhang (Qualcomm Research Center, USA); Ali Sayed (University of California, Los Angeles, USA)</td>
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<td>Amir Nasri (University of British Columbia, Canada); Robert Schober (University of British Columbia, Canada)</td>
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<th>5.</th>
<th>Exploring Simulated Annealing and Graphical Models for Optimization in Cognitive Wireless Networks</th>
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<td>Anthony Plummer Jr (Michigan State University, USA); Mahmoud Taghizadeh (Michigan State University, USA); Subir Biswas (Michigan State University, USA)</td>
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### SPC-05: OFDM and Multi-carrier Systems 1
Chair: Shigeru Shimamoto (Waseda University, Japan), Hung Nguyen (Aerospace Corporation, USA)
Room: 15

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<td>Erdal Panayirici (Princeton University, Princeton, NJ 08544, USA, USA); Hakan Dogan (Istanbul University, Turkey); H. Vincent Poor (Princeton University, USA)</td>
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2. **Bayesian Cramer-Rao Bound for OFDM Rapidly Time-varying Channel Complex Gains Estimation**  
Hussein Hijazi (GIPSA-lab (Grenoble Image Parole Signal Automatique) ex LIS, France); Laurent Ros (GIPSA-lab, France)

3. **Blind Detection of Partial Transmit Sequence in a Coded OFDM System**  
Koji Shibata (Hokkaido University, Japan); Julian Webber (Hokkaido University, Japan); Toshihiko Nishimura (Hokkaido University, Japan); Takeo Ohgane (Hokkaido University, Japan); Yasutaka Ogawa (Hokkaido University, Japan)

4. **Behavioural Analysis of Internal Mechanism of Nonlinear OFDM Signals**  
Mairtin O'Droma (University of Limerick, Ireland); Yiming Lei (University of Limerick, Ireland)

5. **A Universal Frequency Offset Estimator for OFDM Applications**  
Ming (Matt) Ruan (National ICT Australia, Australia); Mark Reed (National ICT Australia, ANU, Australia); Zhenning Shi (Shanghai Bell - Alcatel Lucent, P.R. China)

6. **A Hybrid Integer Carrier Frequency Offset Estimator for Practical OFDM Systems**  
Ming (Matt) Ruan (National ICT Australia, Australia); Mark Reed (National ICT Australia, ANU, Australia); Zhenning Shi (Shanghai Bell - Alcatel Lucent, P.R. China)

**WCS-17: Cooperative Communication: Relay Techniques**  
Chair: TBD  
Room: 01

1. **A Novel Observe-and-Forward Scheme in Wireless Cooperative Relaying Systems**  
Wenjun Wu (Beijing University of Posts and Telecommunications, P.R. China); Qingyi Quan (Beijing University of Posts and Telecommunications, P.R. China); Pan (Beijing U. of Posts & Telecoms, P.R. China); Wenbo Wang (Beijing University of Posts and Telecommunications, P.R. China)

2. **The Gaussian Interference Relay Channel with a Potent Relay**  
Ye Tian (Penn State University, USA); Aylin Yener (Pennsylvania State University, USA)

Andreas Mueller (University of Stuttgart, Germany); Hong-Chuan Yang (University of Victoria, Canada)

4. **Performance of Orthogonal Wireless Relay Networks with Multiple SNR-Thresholds and Multiple Hard-Decision Detections**  
Dian-Wu Yue (University of Saskatchewan, Canada); Ha Nguyen (University of Saskatchewan, Canada)

5. **Multi-Frame Distributed Protocol for Analog Network Coding in Slow-Fading Channels**  
Jonathan Gambini (Politecnico di Milano, Italy); Umberto Spagnolini (Politecnico di Milano, Italy)

6. **Adaptive Modulation and Network Coding with Optimized Precoding in Two-Way Relaying**  
Toshiaki Koike-Akino (Harvard University, USA); Petar Popovski (Aalborg University, Denmark); Vahid Tarokh (Harvard University, USA)

**WCS-18: MIMO Precoding**  
Chair: TBD  
Room: 02

1. **A New THP Precoding Scheme With Effective Channel Optimization**  
Chunlin Yan (DOCOMO Beijing Communications Laboratories Co., Ltd, P.R. China)

2. **Scale-Only Tomlinson-Harashima Precoding**  
Kai Xie (Lehigh University, USA); Tiffany Jing Li (Lehigh University, USA)
3. **Unified Analysis of Linear Block Precoding for Distributed Antenna Systems**  
   Toshiaki Koike-Akino (Harvard University, USA); Andreas Molisch (Mitsubishi Electric Research Laboratory, USA); Zhifeng Tao (Mitsubishi Electric Research Laboratories, USA); Philip Orlik (Mitsubishi Electric, USA); Toshiyuki Kuze (Mitsubishi Electric Co., Japan)

4. **Optimal Linear Precoding and Decoding Method for K-user Interference Channel Systems**  
   Hakjea Sung (Korea university, Korea); Kyoung-Jae Lee (Korea University, Korea); Seok-Hwan Park (Korea University, Korea); Inkyu Lee (Korea University, Korea)

5. **Linear Beamforming for Multiuser MIMO Downlink Systems with Channel Orthogonalization**  
   Jin-Sung Kim (Korea University, Korea); Sung-Hyun Moon (Korea University, Korea); Inkyu Lee (Korea University, Korea)

6. **Constellation Precoded Beamforming**  
   Hong Ju Park (University of California, Irvine, USA); Ender Ayanoglu (University of California, Irvine, USA)

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**WCS-19: OFDMA**  
Chair: TBD  
Room: 03

1. **Opportunistic Cell Edge Selection in Multi-cell OFDMA Networks**  
   Chun Kin Au Yeung (Purdue University, USA); Amine Maaref (Mitsubishi Electric Research Laboratories, USA); Jinyun Zhang (MERL, USA)

2. **SC-FDMA versus OFDMA: Sensitivity to Large Carrier Frequency and Timing Offsets on the Uplink**  
   K. Raghunath (Indian Institute of Science, Bangalore, India); A. Chockalingam (Indian Institute of Science, India)

3. **A Low Complexity Receiver for OFDMA Systems at Downlink**  
   Chia-Horng Liu (Chunghwa Telecom Co., Ltd., Taiwan)

4. **BER-based Chunk Allocation in Multiuser OFDM Wireless Systems**  
   Huiling Zhu (University of Kent, United Kingdom); Jiangzhou Wang (University of Kent, United Kingdom)

5. **Capacity Evaluation of DF Protocols for OFDMA Infrastructure Relay Links**  
   Taneti Riihonen (Helsinki University of Technology, Finland); Risto Wichman (Helsinki university of technology, Finland); Stefan Werner (Helsinki University of Technology, Finland)

6. **Diversity-Multiplexing Tradeoff in OFDMA Systems with Coherence Bandwidth Splitting**  
   Bo Bai (Tsinghua University, P.R. China); Wei Chen (Tsinghua University, P.R. China); Zhigang Cao (Tsinghua University, P.R. China); Khaled Letaief (Hong Kong University of Science & Technology, Hong Kong)

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**WCS-20: Coding and Modulation**  
Chair: TBD  
Room: 04

1. **A Trellis-Coded Modulation Scheme with a Novel Expanded 16-Dimensional Constant Envelope Q2PSK Constellation**  
   Milton Quinteros (University of New Orleans, USA); Edit Kaminsky Bourgeois (University of New Orleans, USA); Kenneth Cartwright (College of The Bahamas, Bahamas)
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<td>Cédric Marchand (Lab-STICC Université de Bretagne Sud, France); Emmanuel Boutillon (University of South Britany, France)</td>
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<td>Kevin Quirk (Jet Propulsion Laboratory, California Institute of Technology, USA); Meera Srinivasan (JPL, USA)</td>
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<td>Xiaoying Shao (University of Twente, The Netherlands); Cornelis Slump (University of Twente, The Netherlands)</td>
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<td>Xiaoxiao Wu (Hong Kong University of Science and Technology, Hong Kong); Wai Ho Mow (Hong Kong University of Science and Technology, Hong Kong)</td>
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<td>Multi-Rate Continuous Phase Modulations for Gaussian Broadcast Channels</td>
<td>Dario Fertonani (Arizona State University, Italy); Tolga Duman (Arizona State University, USA)</td>
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**WCS-41: Topics in MIMO (Poster)**

Chair: Gerhard Bauch (Universitaet der Bundeswehr Munich & Institute for Information Processing, Germany)  
Room: Poster Area

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<td>Uncertainty Processing Applied to Packet Combining in MIMO-HARQ Systems</td>
<td>Jinhuan Xia (Beijing University of Posts and Telecommunications, P.R. China); Tiejun Lv (Beijing University of Posts and Telecommunications, P.R. China)</td>
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<td>Quanyan Zhu (University of Illinois at Urbana Champaign, USA); Hamidou Tembine (University of Avignon, France); Tamer Basar (University of Illinois at Urbana-Champaign, USA)</td>
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<td>Robust Beamforming Design: From Cognitive Radio MISO Channels to Secrecy MISO Channels</td>
<td>Lan Zhang (Institute for Infocomm Research, Singapore); Ying-Chang Liang (Institute for Infocomm Research, Singapore); Yiyang Pei (Nanyang Technological University, Singapore); Rui Zhang (Institute of Infocomm Research, Singapore)</td>
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<td>How Does Correlation Affect the Capacity of MIMO Systems with Rate Constraints?</td>
<td>Hao Wang (Tsinghua University, P.R. China); Wang Peng (City University of Hong Kong, Hong Kong); Li Ping (City University of Hong Kong, Hong Kong); Xiaokang Lin (Tsinghua University, P.R. China)</td>
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<td>Kalman Filtering based Compensation for I/Q Imbalance and CFO in Time-Varying MIMO OFDM Systems</td>
<td>Jingbo Gao (University of Liverpool, United Kingdom); Xu Zhu (University of Liverpool, United Kingdom); Hai Lin (Osaka Prefecture University, Japan); Asoke Nandi (The University of Liverpool, United Kingdom)</td>
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<td>On the Parameter Choice for Cyclic Delay Diversity Based Precoding with Spatial Multiplexing</td>
<td>Gerhard Bauch (Universitaet der Bundeswehr Munich, Germany); Tetsushi Abe (DoCoMo Euro-Laboratories, Germany)</td>
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## WNS-09: Wireless Network Coding
**Chair:** Jun Zheng (Southeast University, P.R. China)
**Room:** 08

1. **The Benefits of Network Coding over a Wireless Backbone**  
   - Hui Guo (National Institute of Standards and Technology, USA); Yi Qian (National Institute of Standards and Technology, USA); Kejie Lu (University of Puerto Rico at Mayaguez, Puerto Rico); Nader Moayeri (NIST, USA)

2. **Analysis of Opportunistic Scheduling for Wireless Network Coding: Nonidentical Two-User Case**  
   - Poramate Tarasak (Institute for Infocomm Research, Singapore); Ubolthip Sethakaset (Institute for Infocomm Research, Singapore); Sumei Sun (Institute for Infocomm Research, Singapore)

3. **Opportunistic Network Coding and Dynamic Buffer Allocation in a Wireless Butterfly Network**  
   - Ekram Hossain (University of Manitoba, Canada); Surachai Chieochan (University of Manitoba, Canada); Dusit Niyato (Nanyang Technological University, Singapore); Teerawat Issariyakul (TOT Public Company Limited, Thailand)

4. **Reliability-based Rate Allocation in Wireless Inter-session Network Coding Systems**  
   - Keivan Ronasi (University of British Columbia, Canada); Amir Hamed Mohsenian Rad (University of British Columbia, Canada); Vincent Wong (University of British Columbia, Canada); Sathish Gopalakrishnan (University of British Columbia, Canada); Robert Schober (University of British Columbia, Canada)

5. **R-Code: Network Coding based Reliable Broadcast in Wireless Mesh Networks with Unreliable Links**  
   - Zhengyu Yang (Worcester Polytechnic Institute, USA); Ming Li (Worcester Polytechnic Institute, USA); Wenjing Lou (Worcester Polytechnic Institute, USA)

6. **Cooperative Peer-to-Peer Information Exchange via Wireless Network Coding**  
   - Yanfei Fan (University of Waterloo, Canada); Yixin Jiang (University of Waterloo, Canada); Haojin Zhu (Shanghai Jiao Tong University, P.R. China); Sherman Shen (University of Waterloo, Canada)

## WNS-10: 802.16 WiMAX Networks
**Chair:** Ana Garcia Armada (Universidad Carlos III de Madrid, Spain)
**Room:** 09

1. **Error Control Strategies for WiMAX Multi-hop Relay Networks**  
   - Weihuang Fu (University of Cincinnati, USA); Zhifeng Tao (Mitsubishi Electric Research Laboratories, USA); Jinyun Zhang (MERL, USA); Dharma Agrawal (University of Cincinnati, USA)

2. **An Almost Overhead-free Error Control Scheme for IEEE 802.16-based Multi-hop Networks**  
   - Chuang Yue-Ru (Fu Jen Catholic University, Taiwan); Tseng Hsueh-Wen (National Taiwan University, Taiwan); Shianne-Tsong Sheu (National Central University, Taiwan)

3. **Joint Base Station and Relay Station Placement for IEEE 802.16j WiMAX Networks**  
   - Hsiao-Chen Lu (National Taiwan University, Taiwan); Wanjiun Liao (National Taiwan University, Taiwan)

4. **System-Level Performance Evaluation of Multi-cell Transparent Mode Relay 802.16j Systems**  
   - Vasken Genc (University College Dublin, Ireland); Sean Murphy (University College Dublin, Ireland); John Murphy (University College Dublin, Ireland)

5. **Quality of Activation (QoA) for Dynamic Service Flows in IEEE 802.16 Networks**  
   - Isabella Cerutti (Scuola Superiore Sant'Anna, Italy); Luca Valcarenghi (Scuola Superiore Sant'Anna, Italy); Piero Castoldi (Scuola Superiore Sant'Anna, Italy)
6. Providing quality of service guarantees in multiclass IEEE 802.16e sleep mode
Georgios Paschos (CERTH - ITI, Center for Research and Technology, Greece, Greece); Petteri Mannersalo (VTT Technical Research Centre of Finland, Finland)

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AHSN-16: Cross Layer Optimization
Chair: Linda Jiang Xie (University of North Carolina at Charlotte, USA), Sneha Kasera (University of Utah, USA)
Room: 05

1. A Cross-Layer ECN to Achieve Fairness Among TCP Flows in Wireless Mesh Networks
Jin Ye (Central South University, P.R. China); Jianxin Wang (Central South University, P.R. China); Jiawei Huang (Central South University, P.R. China); Xi Zhang (Texas A&M University, ECE Department, USA)

2. Inter-Gateway Cross-layer Handoffs in Wireless Mesh Networks via a Planned Multicast Group Strategy
Weiyi Zhao (University of North Carolina at Charlotte, USA); Linda Jiang Xie (University of North Carolina at Charlotte, USA)

3. Data Acquisition through joint Compressive Sensing and Principal Component Analysis
Riccardo Masiero (University of Padova, Italy); Giorgio Quer (Università di Padova, Italy); Daniele Munaretto (DOCOMO Euro-Labs, Germany); Michele Rossi (University of Padova, Italy); Joerg Widmer (DOCOMO Euro-Labs, Germany); Michele Zorzi (University of Padova, Italy)

4. Joint Configuration of Routing and Medium Access Parameters in Wireless Networks
Md. Forkan Uddin (University of Waterloo, Canada); Catherine Rosenberg (University of Waterloo, Canada); Weihua Zhuang (University of Waterloo, Canada); Andre Girard (INRS-EMT and GERAD, Canada)

Khalid Khayyat (University of Victoria, Canada); Fayez Gebali (The University of Victoria, Canada)

6. Cross Layer Multirate Adaptation Using Physical Capture
Jun Cheol Park (University of Utah, USA); Sneha Kasera (University of Utah, USA); Neal Patwari (University of Utah, USA)

AHSN-17: Quality of Service
Chair: Hamid Sharif (Univ. of Nebraska-Lincoln, USA), Matthew Caesar (Univ. of Illinois at Urbana-Champaign, USA)
Room: 06

1. MAC Support for Wireless Multimedia Sensor Networks
Osama Farrag (Johns Hopkins University APL, USA); Mohamed Younis (University of Maryland Baltimore County, USA); William D'Amico (Johns Hopkins Applied Physics Lab, USA)

Wei Wang (University of Nebraska - Lincoln, USA); Dongming Peng (Univ. Nebraska - Lincoln, USA); Honggang Wang (university of nebraska-Lincoln, USA); Hamid Sharif (University of Nebraska-Lincoln, USA); Hsiao-Hwa Chen (National Cheng Kung University, Taiwan)

3. QoS-Driven Node Cooperative Resource Allocation for Wireless Mesh Networks with Service Differentiation
Ho Ting Cheng (University of Waterloo, Canada); Weihua Zhuang (University of Waterloo, Canada)
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<td>A Practical Approach for Providing QoS in Multichannel Ad-Hoc Networks using Spectrum Width Adaptation</td>
<td>Vijay Raman (University of Illinois at Urbana-Champaign, USA); Matthew Caesar (University of Illinois at Urbana-Champaign, USA)</td>
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<td>Optimum Energy and Spectrum Allocation in Power Controlled Wireless Networks With QoS Constraints</td>
<td>Stepan Kucera (National Institute of Information and Communication Technology, Japan); Ludek Kucera (Prag, Czech Republic); Bing Zhang (National Institute of Information and Communications Technology, Japan)</td>
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<td>Distributed Optimal Relay Selection for QoS Provisioning in Wireless Multi-hop Cooperative Networks</td>
<td>Yifei Wei (Beijing University of Posts and Telecommunications, P.R. China); F. Richard Yu (Carleton University, Canada); Junde Song (Beijing University of Posts and Telecommunications, Taiwan); Victor Leung (The University of British Columbia, Canada)</td>
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**CISS-06: Denial of Service**  
Chair: Hongmei Deng (Intelligent Automation Inc., USA)  
Room: 16

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<td>Xiaosong Lou (University of Southern California, USA); Kai Hwang (Univ. of Southern California, USA)</td>
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<td>Detection of DDoS traffic by using the technical analysis used in the the stock market</td>
<td>Jeonghoon Yun (KAIST, Korea)</td>
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<td>RateGuard: A Robust Distributed Denial of Service (DDoS) Defense System</td>
<td>Huizhong Sun (Polytechnic University, USA); Wingchiu Ngan (Polytechnic University, USA); H. Jonathan Chao (Polytechnic Institute of New York University, USA)</td>
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<td>Stealthy IP Prefix Hijacking: Don’t Bite Off More Than You Can Chew</td>
<td>Christian McArthur (Texas A&amp;M University, USA); Mina Guirguis (Texas State University, USA)</td>
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<td>Byung Seung Kim (Seoul National University, Korea); Hyogon Kim (Korea University, Korea); Saewoong Bahk (Seoul National University, Korea)</td>
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**CQPRM-07: Scalability, Robustness and Resilience**  
Chair: Tutomu Murase (NEC Corp., Japan)  
Room: 17

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<td>Shengbo Yang (Nanyang Technological University, Singapore); Feng Zhong (NTU, Singapore); Chai Kiat Yeo (Nanyang Technological University, Singapore); Bu Sung Lee (Nanyang Technological University, Singapore); Jeff Boleng (United States Air Force Academy, USA)</td>
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<td>Erasure Codes with a Banded Structure for Hybrid Iterative-ML Decoding</td>
<td>Alexandre Soro (ISAE, France); Mathieu Cunche (INRIA Rhône-Alpes, France); Jerome Lacan (ISAE, France); Vincent Roca (INRIA Rhône-Alpes, France)</td>
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Camille Mazataud (Georgia Institute of Technology, USA); Benny Bing (Georgia Institute of Technology, USA)

4. **Minimum Backup Configuration-Creation Method for IP Fast Reroute**  
Shohei Kamamura (NTT, Japan); Takashi Miyamura (NTT, Japan); Cristel Pelsser (IIJ, Japan); Ichiro Inoue (NTT, Japan); Kohei Shiomoto (NTT, Japan)

5. **IP Fast Reroute for Double-Link Failure Recovery**  
Kang Xi (Polytechnic Institute of New York University, USA); H. Jonathan Chao (Polytechnic Institute of New York University, USA)

6. **Optimized Protection Schemes for Resilient Interdomain Traffic Distribution**  
Miroslaw Kantor (AGH University of Science and Technology, Poland); Piotr Cholda (AGH University of Science and Technology, Poland); Andrzej Jajszczyk (AGH University of Science and Technology, Poland)

**CQPRM-08: Quality and Performance of Networks and Services**  
Chair: Tetsuya Yokotani (Mitsubishi Electric Corp., Japan)  
Room: 18

1. **Parameter Setting and 2-D Stability Conditions for TCP/RED Networks**  
Seok Woo (Gwangju Institute of Science and Technology, Korea); Kiseon Kim (GIST - Gwangju, Republic of Korea, Korea); Lei Wang (Beijing Jiaotong University, P.R. China); Yang Xiao (Beijing Jiaotong University, P.R. China)

2. **Fair Queueing based Packet Scheduling for Buffered Crossbar Switches**  
Deng Pan (Florida International University, USA); Kia Makki (Florida International University, USA); Niki Pissinou (Florida International University, USA)

3. **Fair and Efficient Dynamic Traffic Grooming Algorithm for WDM Mesh Networks**  
André Drummond (State University of Campinas, Brazil); Nelson L. S. da Fonseca (State University of Campinas, Brazil)

4. **Fast Admission Control for Short TCP Flows**  
Yingxin Jiang (University of Notre Dame, USA); Aaron Striegel (University of Notre Dame, USA)

5. **Reliable Transmission in Flow-Aware Networks**  
Jerzy Domzal (AGH University of Science and Technology, Poland); Robert Wójcik (AGH University of Science and Technology, Poland); Andrzej Jajszczyk (AGH University of Science and Technology, Poland)

6. **A Reinforcement Learning-Based Lightpath Establishment for Service Differentiation in All-Optical WDM Networks**  
Izumi Koyanagi (Nara Institute of Science and Technology, Japan); Takuji Tachibana (Nara Institute of Science and Technology, Japan); Kenji Sugimoto (Nara Institute of Science and Technology, Japan)

**CSS-06: Services and Modelization (Poster)**  
Chair: TBD  
Room: Poster Area

1. **Internet Service Tiering as a Market Segmentation Strategy**  
George Rouskas (North Carolina State University, USA); Qian Lv (North Carolina State University, USA)
2. **Directory-Hopping based Service Discovery for Dynamic Large-scale Wireless Networks**  
Sok-Hyong Kim (Pohang University of Science and Technology (POSTECH), Korea); Joo-Young Baek (Pohang University of Science and Technology (POSTECH), Korea); Seung-Hoon Lee (Pohang University of Science and Technology (POSTECH), Korea); Young-Joo Suh (Pohang University of Science and Technology (POSTECH), Korea)

3. **A Situation-Aware Approach for Dealing with Uncertain Context-Aware Paradigm**  
Xiangtao Lin (Beijing University of Posts and Telecommunications, P.R. China); Bo CHENG (Beijing University of Posts & Telecommunications, P.R. China); Junliang Chen (Beijing University of Posts and Telecommunications, Taiwan)

4. **Parameterized Anomaly Detection System with Automatic Configuration**  
Bruno Zarpelão (University of Campinas (UNICAMP), Brazil); Leonardo Mendes (State University of Campinas - UNICAMP, Brazil); Mario Proença Jr. (State University of Londrina, Brazil); Joel Rodrigues (University of Beira Interior, Portugal)

5. **Communications Enablement of Software-as-a-Service (SaaS) Applications**  
Feng Liu (Avaya Labs Research, Avaya Inc., USA)

6. **A Participation Incentive Market Mechanism for Allocating Heteogeneous Network Services**  
Juong-Sik Lee (Nokia Research Center, USA)

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CTS-06: Joint Source-Channel Coding and Compressive Sensing  
Chair: TBD  
Room: 12

1. **Asymptotically Optimal Joint Source-Channel Coding with Minimal Delay**  
Marius Kleiner (Ecole Polytechnique Federale de Lausanne, Switzerland); Bixio Rimoldi (EPFL, Switzerland)

2. **Multi-Functional Compression with Side Information**  
Soheil Feizi (MIT, USA); Muriel Medard (MIT, USA)

3. **Secure Joint Source-Channel Coding for Quasi-Static Fading Channels**  
Tony Q. S. Quek (Institute for Infocomm Research, Singapore); Kiran Gowda (Institut Eurecom, France); Hyundong Shin (Kyung Hee University, Korea)

4. **On Reducing the Complexity of Tone-Reservation Based PAPR Reduction Schemes by Compressive Sensing**  
Eprahim Al-Safadi (King Fahd University of Petroleum & Minerals, Saudi Arabia)

5. **Design and Analysis of Synchronizable Error-Resilient Arithmetic Codes**  
Hiroyoshi Morita (University of Electro-Communications, Japan); Ying Zou (Hitachi Software Engineering, Japan); Adriaan van Wijngaarden (Bell Laboratories, USA)

6. **Receiver only Optimized Semi-Hard Decision VQ For Noisy Channels**  
Ganesan Thiagarajan (Indian Institute of Science, India); Chandra Murthy (Indian Institute of Science, India)

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CTS-07: Interference Networks  
Chair: TBD  
Room: 13

1. **Secure Degrees of Freedom for Gaussian Channels with Interference: Structured Codes Outperform Gaussian Signaling**  
He Xiang (Pennsylvania State University, USA); Aylin Yener (Pennsylvania State University, USA)
2. **Degrees of Freedom on the K-User MIMO Interference Channel with Constant Channel Coefficients for Downlink Communications**
   Namyoon Lee (Samsung Advanced Institute of Technology, Korea); Dohyung Park (Samsung Advanced Institute of Technology, Korea); Young-Doo Kim (Samsung Electronics, Korea)

3. **On the Optimality of Beamforming for Multi-User MISO Interference Channels with Single-User Detection**
   Xiaohu Shang (Princeton University, USA); Biao Chen (Syracuse University, USA); H. Vincent Poor (Princeton University, USA)

4. **Communicating Correlated Gaussian Sources over Gaussian Interference Channels**
   Wei Liu (Syracuse University, USA); Biao Chen (Syracuse University, USA)

5. **An Enhanced Interference Alignment Method for Interference Channel Systems**
   Hakjea Sung (Korea university, Korea); Seok-Hwan Park (Korea University, Korea); Kyoung-Jae Lee (Korea University, Korea); Inkyu Lee (Korea University, Korea)

6. **How to Position n Transmitter-Receiver Pairs in n-1 Dimensions such that Each Can Use Half of the Channel with Zero Interference from the Others**
   Rudolf Mathar (RWTH Aachen University, Germany); Milan Zivkovic (RWTH Aachen, Germany)

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**NGNI-06: Routing & Switching - III**

**Chair:** TBD  
**Room:** 11

1. **Optimization of Multicast \log_2(N,m,p) Switching Networks**
   Grzegorz Danilewicz (Poznan University of Technology, Poland)

2. **Improved Opportunistic Sleeping Algorithms for LAN Switches**
   Miguel Rodriguez Pérez (University de Vigo, Spain); Sergio Herrera Alonso (Universidade de Vigo, Spain); Manuel Fernández-Veiga (Universidade de Vigo, Spain); Cándido López García (Universidade de Vigo, Spain)

3. **A Prefix-Distribution Adaptive Scheme For Routing Lookup Acceleration**
   Gianni Antichi (University of Pisa, Italy); Andrea Di Pietro (University of Pisa, Italy); Domenico Ficara (University of Pisa, Italy); Stefano Giordano (University of Pisa, Italy); Gregorio Procissi (Università di Pisa, Italy); Fabio Vitucci (University of Pisa, Italy)

4. **Dynamic Switching Between Adaptive FEC Protocols For Multi-Source Streaming**
   Cedric Lamoriniere (University College Dublin, Ireland); Hamid Nafaa (University College Dublin, Ireland); Liam Murphy (University College Dublin, Ireland)

5. **Design of Congestion Control Based on Instantaneous Queue Sizes in the Routers**
   Wuhua Hu (Nanyang Technological University, Singapore); Gaoxi Xiao (Nanyang Technological University, Singapore)

6. **AnyTraffic routing algorithm for label-based forwarding**
   Pedro Pedroso (Universitat Politècnica de Catalunya, Spain); Dimitri Papadimitriou (Alcatel-Lucent Bell, Belgium); Davide Careglio (Universitat Politècnica de Catalunya, Spain); Miroslaw Klinkowski (UPC, Spain); Oscar Pedrola (Universitat Politècnica de Catalunya, Spain)
### ONS-06: Switching and Network Access

**Chair:** George Rouskas (North Carolina State University, USA)  
**Room:** 14

1. **Crosstalk-Preventing Scheduling in AWG-Based Cell Switches**  
   Andrea Bianco (Politecnico di Torino, Italy); David Hay (Politecnico di Torino, Italy); Fabio Neri (Politecnico di Torino, Italy)

2. **The New Banyan-Based Switching Fabric Architecture Composed of Asymmetrical Optical Switching Elements**  
   Grzegorz Danilewicz (Poznan University of Technology, Poland); Wojciech Kabacinski (Poznan University of Technology, Poland); Remigiusz Rajewski (Poznan University of Technology, Poland)

3. **VLAN-Based Routing Infrastructure for an All-Optical Circuit Switched LAN**  
   Xiaolan Zhang (University of Illinois at Urbana-Champaign, USA); Rohit Wagle (IBM T.J. Watson Research Center, USA); James Giles (IBM T J Watson Research Center, USA)

4. **Grid Reconfigurable Optical-Wireless Architecture for Large Scale Municipal Mesh Access Network**  
   Shing-Wa Wong (Stanford University, USA); Divanilson Campelo (Stanford University, USA); Hyunok Lee (Stanford University, USA); Ning Cheng (Huawei Technologies USA, USA); She-Hwa yen (Stanford PNRL, USA); Leonid Kazovsky (Stanford University, USA); Donald Cox (Stanford University, USA)

5. **Fiber-Wireless (FiWi) Networks: A Comparative Techno-Economic Analysis of EPON and WiMAX**  
   Navid Ghazisaidi (INRS, Canada); Martin Maier (Institut National de la Recherche Scientifique (INRS), Canada)

   Takayoshi Tashiro (NTT Access Network Service Systems Laboratories, Japan); Shoko Araki (NTT communication Science Laboratories, Japan); Yasuhiko Nakanishi (NTT East Corporation, Japan); Hideaki Kimura (NTT Access Network Service Systems Laboratories, Japan); Kiyomi Kumozaki (NTT, Japan); Masato Miyoshi (NTT Communication Science Laboratories, Japan)

### SAC(CRN)-06: MAC/Routing in Cognitive Radio Networks

**Chair:** Prathima Agrawal (Auburn University, USA)  
**Room:** 10

1. **Time Synchronization of Cognitive Radio Networks**  
   Jari Nieminen (Helsinki University of Technology, Finland); Lijun Qian (Prairie View A&M University, USA); Riku Jantti (Helsinki University of Technology, Finland)

2. **Optimal Route Selection and Resource Allocation in Multi-Hop Cognitive Radio Networks**  
   Qianxi Lu (Beijing University of Posts and Telecommunications, P.R. China); Tao Peng (Beijing University of Posts & Telecommunications, P.R. China); Wei Wang (Zhejiang University, P.R. China); Wenbo Wang (Beijing University of Posts and Telecommunications, P.R. China); Chao Hu (P.O. Box 93#, Xitucheng Road No.10, Beijing, 100876, P.R. China)

3. **A Probabilistic Approach to Identifying the Number of Frequency Hoppers for Spectrum Sensing**  
   Yuxing Han (UCLA, USA); Shaunak Joshi (University of California, Los Angeles, USA); Lillian Dai (Cisco, USA); Danijela Cabric (University of California Los Angeles, USA); Sateesh Addepalli (Cisco, USA); Jiangtao Wen (Tsinghua University, P.R. China); John Villasenor (University of California, Los Angeles, USA)

4. **Simple and Efficient MAC for Cognitive Wireless Personal Area Networks**  
   Jelena Misic (University of Manitoba, Canada); Vojislav Misic (Ryerson University, Canada)
5. **Spectrum-Aware Routing Protocol for Cognitive Ad-Hoc Networks**  
   Suyang Ju (University of Kansas, USA); Joseph Evans (University of Kansas, USA)

6. **Medium Access Control Signaling for Reliable Spectrum Agile Radios**  
   Ehsan Azarnasab (University of Utah, USA); Rong-Rong Chen (University of Utah, USA); Koon Hoo Teo (Mitsubishi Electric Research Lab, USA); Behrouz Farhang-Boroujeny (Univ of Utah, USA)

**SAC(ET)-01: Ethernet PON and Wireless Access Networks**  
Chair: Marco Chiani (University of Bologna, Italy)  
Room: 07

1. **A Nonlinear-Predictive QoS-Promoted Dynamic Bandwidth Allocation Scheme for Triple-play Services in Ethernet Passive Optical Networks**  
   Jan-Wen Peng (National Chiao Tung University, Taiwan); Chung-Ju Chang (National Chiao Tung University, Taiwan); Po L. Tien (National Chiao Tung University, Taiwan)

2. **Sleep and Adaptive Link Rate Control for Power Saving in 10G-EPON Systems**  
   Ryogo Kubo (NTT, Japan); Junichi Kani (NTT, Japan); Yukihiro Fujimoto (NTT, Japan); Naoto Yoshimoto (NTT Access Network Service Systems Laboratories, Japan); Kiyomi Kumozaki (NTT, Japan)

3. **MPCP Assisted Power Control and Performance of Cell Breathing in Integrated EPON-WiMAX Network**  
   Shing-Wa Wong (Stanford University, USA); Ying Yan (Technical University of Denmark, USA); Leonid Kazovsky (Stanford University, USA); Lars Dittmann (Technical Univ of Denmark, Denmark)

4. **Integrated Approach to Proportional-fair Resource Allocation for Multiclass Services in an OFDMA System**  
   Nararat Ruangchajatupon (National Institute of Informatics, Japan); Yusheng Ji (National Institute of Informatics, Japan)

5. **Scalable Peer-to-Peer Video Streaming in WiMAX Networks**  
   Muhammad Aman (Rensselaer Polytechnic Institute, USA); Biplab Sikdar (Rensselaer Polytechnic Institute, USA); Shyam Parekh (Alcatel-Lucent, USA)

6. **Scalable Video Multicast on Broadcast Channels**  
   Jun Xu (Shanghai Jiao Tong University, P.R. China); Raju Hormis (Columbia University, USA); Xiaodong Wang (Columbia University, USA)

**SPC-06: OFDM and Multi-carrier Systems 2**  
Chair: Hai Lin (Osaka Prefecture University, Japan), Hsiao-Chun Wu (Louisiana State University, USA)  
Room: 15

1. **Dual Transform Domain Echo Canceller for Discrete Multitone Systems**  
   Neda Ehtiati (McGill University, Canada); Benoit Champagne (McGill University, Canada)

2. **Efficient Pilot-Aided Digital Baseband Compensation of Phase Noise ICI in OFDM Receivers**  
   Payam Rabiei (University of Texas at Dallas, USA); Won Namgoong (University of Texas at Dallas, USA); Naofal Al-Dhahir (University of Texas at Dallas, USA)

3. **Compensation of the Impact of Interference Mitigation by Pulse Blanking in OFDM Systems**  
   Sinja Brandes (German Aerospace Center, Germany); Ulrich Epple (German Aerospace Center (DLR), Germany); Michael Schnell (German Aerospace Center (DLR), Germany)

4. **IBI Cancellation Based on Limited Channel Feedback for OFDM Systems over Channels with Large Delay Spreads**  
   Xia Wang (Georgia institute of technology, P.R. China); Geoffrey Li (Georgia Tech, USA)
5. **Intercarrier Interference Immune Single Carrier OFDM via Magnitude Shift Keying Modulation**  
   Xue Li (Wright State University, USA); Zhiqiang Wu (Wright State University, USA)

6. **Construction of M-QAM Sequences Based on Generalized Rudin-Shapiro Polynomials**  
   Yajun Wang (Shanghai Jiaotong University, P.R. China); Wen Chen (Shanghai Jiaotong University, P.R. China)

### SPC-13: Topics in Signal Processing for Communications 1 (Poster)
**Chair:** John Thompson (University of Edinburgh, UK), Hung Nguyen (Aerospace Corporation, USA)  
**Room:** Poster Area

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<td>Jen-Ming Wu (National Tsing Hua University, Taiwan); Ci-Ye Tso (National Tsing Hua University, Taiwan); Pangan Ting (Tsing Hua University, Taiwan)</td>
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### WCS-21: Cooperative Communication: Power and Resource Allocation
**Chair:** TBD  
**Room:** 01

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<td>Xinbing Wang (Shanghai Jiaotong University, P.R. China)</td>
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Changqing Yang (Beijing University of Posts and Telecommunications, P.R. China); Wenbo Wang (Beijing University of Posts and Telecommunications, P.R. China); Shuang Zhao (Beijing University of Posts and Telecommunications, P.R. China); Mugen Peng (Beijing University of posts & Telecommunications, P.R. China)

6. **Joint Source Power Scheduling and Distributed Relay Beamforming in Multiuser Cooperative Wireless Networks**  
Xin Li (Villanova University, USA); Yimin Zhang (Villanova University, USA); Moeness Amin (Villanova University, USA)

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**Chair:** TBD  
**Room:** 02

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Francisco Muller (Federal University of Para, Brazil); Aldebaro Klautau (Universidade Federal do Para, Brazil); Claudio Silva (Virginia Tech, USA)

2. **An Ultra-Wideband Impulse-Radio Communication Method and Transceiver**  
Emil Novakov (IMEP, France); Jean-michel Fournier (IMEP, France)

3. **Compressed Sensing Reception of Bursty UWB Impulse Radio is Robust to Narrow-band Interference**  
Anand Oka (University of British Columbia, Canada); Lutz Lampe (University of British Columbia, Canada)

4. **Effects of Time Variant Channel on Time Reversal UWB System**  
Ijaz Haider Naqvi (IETR-INSA Rennes, France)

5. **On the Use of Multipath Geometry for Wideband Cooperative Localization**  
Yuan Shen (Massachusetts Institute of Technology, USA); Moe Win (Massachusetts Institute of Technology, USA)

6. **Nonparametric Obstruction Detection for UWB Localization**  
Stefano Marano' (ETH Zurich, Switzerland); Wesley Gifford (Massachusetts Institute of Technology, USA); Henk Wymeersch (Massachusetts Institute of Technology, USA); Moe Win (Massachusetts Institute of Technology, USA)

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**Chair:** TBD  
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Saad Al-Ahmadi (Carleton University, Canada); Halim Yanikomeroglu (Carleton University, Canada)

2. **Numerical computation of the lognormal sum distribution**  
Damith Senaratne (University of Alberta, Canada); Chintha Tellambura (University of Alberta, Canada)

3. **Fitting the Modified–Power–Lognormal to the Sum of Independent Lognormals Distribution**  
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4. **Carrier to Interference Ratio Analysis for the Shotgun Cellular System**  
Prasanna Madhusudhanan (University of Colorado at Boulder, USA); Juan Restrepo (University of Colorado at Boulder, USA); Youjian (Eugene) Liu (University of Colorado at Boulder, USA); Timothy Brown (University of Colorado, USA)

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Chair: TBD  
Room: 04

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Robin Wentao Ouyang (Hong Kong University of Science and Technology, Hong Kong); Albert K. Wong (Hong Kong University of Science and Technology, Hong Kong); Chin Tau Lea (Hong Kong University of Science and Technology, Hong Kong); Victoria Ying Zhang (The Hong Kong University of Science and Technology, Hong Kong)

2. **Location Estimation Using Differential RSS with Spatially Correlated Shadowing**  
Jeong Lee (Virginia Tech, USA); Michael Buehrer (Virginia Tech, USA)

3. **Constrained Weighted Least Square Optimization for Vehicle Position Tracking**  
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4. **Localization using Radial Basis Function Networks and Signal Strength Fingerprints in WLAN**  
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5. **Data-Aided Location Estimation in Cellular OFDM Communications Systems**  
Christian Mensing (German Aerospace Center (DLR), Germany); Stephan Sand (German Aerospace Center (DLR), Germany); Armin Dammann (German Aerospace Center (DLR), Germany); Wolfgang Utschick (Technische Universität München, Germany)

6. **AECID Fingerprinting Positioning Performance**  
Torbjörn Wigren (Uppsala University, Sweden); Liang Shi (Ericsson (China) Communication Company Ltd., P.R. China)

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Chair: TBD  
Room: Poster Area

1. **Signal Transmission with Unequal Error Protection in Wireless Relay Networks**  
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2. **Performance of Amplify-and-Forward MIMO Relay Channels with Transmit Antenna Selection and Maximal-Ratio Combining**  
Shuping Chen (Beijing University of Posts and Telecommunications, P.R. China)
3. **Multiple Repeater Placement for Assisting Long-Range LOS MIMO Links**  
   Brett Walkenhorst (Georgia Tech Research Institute, USA); Mary Ingram (Georgia Institute of Technology, USA)

4. **Cooperative Diversity Can Mitigate Keyhole Effects in Wireless MIMO Systems**  
   Oussama Souihli (Graduate School of Science and Technology, Keio University, Japan); Tomoaki Ohtsuki (Keio University, Japan)

5. **Subchannel Allocation in Relay-Enhanced OFDMA Downlink With Imperfect Feedback**  
   Jouko Leinonen (University of Oulu, Centre for Wireless Communications (CWC), Finland); Taneli Riihonen (Helsinki University of Technology, Finland); Jyri Hämäläinen (Helsinki University of Technology, Finland); Markku Juntti (University of Oulu, Finland)

6. **Joint Power and Channel Resource Allocation for F/TDMA Decode and Forward Relay Networks**  
   Yin Sun (Tsinghua University, P.R. China); Yuanzhang Xiao (UCLA, P.R. China); Ming Zhao (Tsinghua University, P.R. China); Shidong Zhou (Tsinghua University, P.R. China); Ness Shroff (The Ohio State University, USA)

### WNS-11: Game Theory in Wireless Networks

**Chair:** Floriano De Rango (University of Calabria, Italy)  
**Room:** 08

1. **An Interference Minimization Game Theoretic Subcarrier Allocation Algorithm for OFDMA-based Distributed Systems**  
   Quang Duy La (Nanyang Technological University, Singapore); Yong Huat Chew (Institute for Infocomm Research, Singapore); Boon Hee Soong (Nanyang Technological University, Singapore)

2. **QoS-Driven Power-Allocation Game Over Fading Multiple-Access Channels**  
   Xi Zhang (Texas A&M University, ECE Department, USA); Qinghe Du (Texas A&M University, USA)

3. **Radio-Aware Scheduler for WiMAX systems based on Time-Utility Function and Game Theory**  
   Davide Iacono (University of Pisa, Italy); Rosario Garroppo (University of Pisa, Italy); Stefano Giordano (University of Pisa, Italy)

4. **Mitigating self-interference among IEEE 802.22 networks: A Game Theoretic Perspective**  
   Swastik Brahma (University of Central Florida, USA); Mainak Chatterjee (University of Central Florida, USA)

   Xinbing Wang (Shanghai Jiaotong University, P.R. China); Mohsen Guizani (WMU, USA)

6. **Revenue Maximizing Game and its Extention for Multi Cell Wireless Access Networks**  
   Seewoo Jang (Seoul National University, Korea); Sung-Guk Yoon (Seoul National University, Korea); Saewoong Bahk (Seoul National University, Korea)

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**Chair:** Youngchul Sung (KAIST, Korea)  
**Room:** 09

1. **Erlang Capacity of UMTS Using Perceptual-based Power Control: An Analytical Framework**  
   Behrooz Rohani (Serck Controls Pty Ltd., Australia); Hans-Juergen Zepernick (Blekinge Institute of Technology, Sweden)
2. Mobility and Capacity Offload for 3G UMTS Femtocells
Farhad Meshkati (QUALCOMM Inc., USA); Yi Jiang (QUALCOMM Inc., USA); Lenny Grokop (QUALCOMM Inc., USA); Sumeeth Nagaraja (QUALCOMM Inc., USA); Mehmet Yavuz (Qualcomm, USA); Sanjiv Nanda (Qualcomm, Inc, USA)

3. Modelling of the WCDMA interface in the UMTS network with Soft Handoff Mechanism
Piotr Zwierzykowski (Poznan University of Technology, Poland); Maciej Stasiak (Poznan University of Technology, Poland); Damian Parniewicz (Poznan University of Technology, Poland)

4. Hybrid Spectrum Usage for Overlaying LTE Macrocell and Femtocell
Yong Bai (DoCoMo (Beijing) Communications Laboratories Co., Ltd, P.R. China); Lan Chen (DoCoMo Beijing Communication Laboratories Co., Ltd, P.R. China)

5. 3GPP LTE Downlink System Performance
Amir Farajidana (Qualcomm Incorporated, USA); Wanshi Chen (Qualcomm, USA); Aleksandar Damnjanovic (Qualcomm, Inc., USA); Taesang Yoo (Qualcomm Inc., USA); Durga Malladi (Qualcomm Inc., USA); Christopher Lott (Qualcomm, Inc., USA)