Performance Trade-Offs and DSP Evaluation of Spectrally Efficient FDM Detection Techniques
Ryan C Grammenos (University College London, United Kingdom); Izzat Darwazeh (University College London, United Kingdom)
pp. 4781-4786
SPC-10: Estimation, Detection, and Localization

**Channel Estimation for Two-Way Relay Networks over Doubly-Selective Channels with Time-Multiplexed-Superimposed Training**
Shun Zhang (Xidian University, P.R. China); Feifei Gao (Tsinghua University, P.R. China); Xiandeng He (Xidian University, P.R. China); Changxing Pei (Xidian University, P.R. China)
pp. 4787-4791

**Low Complexity Soft-input Soft-output Group Detection for Massive MIMO Systems**
Jun Won Choi (Qualcomm, USA); Byungju Lee (Korea University, Korea); Byonghyo Shim (Korea University, Korea); Insung Kang (Qualcomm Inc., USA)
pp. 4792-4796

**On Remote RF-based Orientation Detection**
Jac Romme (IMEC / Holst Centre, The Netherlands); Johannes H.C. van den Heuvel (Holst Centre / imec & IMEC, The Netherlands); Guido Dolmans (Holst Centre / IMEC-NL, The Netherlands); Georgios Selimis (imec / Holst Centre, The Netherlands); Kathleen Philips (IMEC / Holst Centre, The Netherlands); Harmke de Groot (Holst Centre/IMEC, The Netherlands)
pp. 4797-4801

**Robust Power Allocation for Active and Passive Localization**
Yuan Shen (Massachusetts Institute of Technology, USA); Wenhan Dai (Massachusetts Institute of Technology, USA); Moe Win (Massachusetts Institute of Technology, USA)
pp. 4802-4807

**Human Activity Classification and Localization Using Bistatic Three Frequency CW Radar**
Yoshihisa Okamoto (Keio University, Japan); Tomoaki Ohtsuki (Keio University, Japan)
pp. 4808-4812

SPC-11: Relay II

**Robust Relay Precoding Design for Bidirectional Multi-User Multi-Relay Networks**
Meng Zhang (Shanghai Jiao Tong University, P.R. China); Ruiqi Xue (Shanghai Jiao Tong University, P.R. China); Hui Yu (Shanghai Jiao Tong University, P.R. China); Hanwen Luo (Shanghai Jiao Tong University, P.R. China); Wen Chen (Shanghai Jiao Tong University, P.R. China)
pp. 4813-4817

**Alamouti Coded OFDM Scheme for Frequency Asynchronous AF Relay Networks**
Weile Zhang (Xi'an Jiaotong University, P.R. China); Feifei Gao (Tsinghua University, P.R. China); Qin Ye Yin (Xi'an Jiaotong University, P.R. China); Hui-Ming Wang (Xi'an Jiaotong University, P.R. China)
pp. 4818-4822

**Antenna Selection in the Full-Duplex Multi-Antenna Relay Channel**
Himal A Surfawera (University of Peradeniya, Sri Lanka); Ioannis Krikidis (University of Cyprus, Cyprus); Chau Yuen (Singapore University of Technology and Design, Singapore)
pp. 4823-4828

**Optimal Linear Detectors for Nonorthogonal Amplify-and-Forward Protocol**
Qasim Ahmed (KAUST, Saudi Arabia); Ki-Hong Park (King Abdullah University of Science and Technology (KAUST), Saudi Arabia); Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi Arabia); Sonia Aissa (INRS, University of Quebec, Canada)
pp. 4829-4833

**Asymmetric Signal Space Alignment for Y Channel with Single-Antenna Users**
Wei Long (Beijing University of Posts and Telecommunications, P.R. China); Tiejun Lv (Beijing University of Posts and Telecommunications, P.R. China); Hui Gao (Singapore University of Technology and Design, Singapore)
pp. 4834-4838
SPC-12: MIMO II

Efficient Transmitting Antenna Selection for MIMO Systems via Parallel Approach
Shih Yu Chang (National Tsing Hua University of Taiwan, Taiwan); Hsiao-Chun Wu (Louisiana State University, USA)
pp. 4839-4843

Evaluation and Extension of a Multi-Dimensional Graph-Based Receiver Concept for MIMO-OFDM
Christopher Knievel (University of Kiel, Germany); Dapeng Hao (University of Kiel, Germany); Peter A. Hoeher (University of Kiel, Germany); Petra Weitkemper (DOCOMO Euro-Labs, Germany); Hidekazu Taoka (NTT DOCOMO, INC., Japan)
pp. 4844-4848

Approximate Channel Block Diagonalization for Open-Loop Multiuser MIMO Communications
Masayuki Harada (Tokyo Institute of Technology, Japan); Kazuhiko Fukawa (Tokyo Institute of Technology, Japan); Hiroshi Suzuki (Tokyo Institute of Technology, Japan); Satoshi Suyama (NTT DOCOMO, INC., Japan)
pp. 4849-4853

Calculating LLRs via Saddlepoint Approximation in Front-end MIMO Receivers
Martin Senst (RWTH Aachen University, Germany); Lukasz Krzymien (Huawei Technologies, USA); Leszek Szczecinski (INRS-EMT, Canada); Fabrice Labeau (McGill University, Canada)
pp. 4854-4859

A Constraint Relaxation Version of the Interference Leakage Minimization Algorithm in MIMO Interference Channels
Che-Chen Chou (National Tsing Hua University, Taiwan); Hsin-Jui Chou (National Tsing Hua University, Taiwan); Jen-Ming Wu (National Tsing Hua University, Taiwan)
pp. 4860-4864

SPC-13: Interference Management

Joint Frobenius norm and Reweighted Nuclear Norm Minimization for Interference Alignment
Huiqin Du (University of Edinburgh, United Kingdom); Tharmalingam Ratnarajah (The University of Edinburgh, United Kingdom); Mathini Sellathurai (Heriot-Watt University, United Kingdom); Constantinos B. Papadias (Athens Information Technology, Greece)
pp. 4865-4869

An Enhanced Interference Measurement Scheme for CoMP in LTE-Advanced Downlink
Wei Xi (DOCOMO Beijing Communications Laboratories Co., Ltd., P.R. China); Xiang Yun (DOCOMO Beijing Communications Laboratories Co., Ltd., P.R. China); Satoshi Nagata (NTT DoCoMo, Inc., Japan); Yoshihisa Kishiyama (NTT DOCOMO, INC., Japan); Lan Chen (DOCOMO Beijing Communication Laboratories Co., Ltd, P.R. China)
pp. 4870-4874

Sum-rate Maximization in the Multicell MIMO Broadcast Channel with Interference Coordination
Duy H. N. Nguyen (McGill University, Canada); Tho Le-Ngoc (McGill University, Canada)
pp. 4875-4879

Blind Opportunistic Interference Alignment in Cognitive Radio Systems
Christos G. Tsimos (University of Patras, Greece); Kostas Berberidis (University of Patras, Greece)
pp. 4880-4884

Performance of the Blind Interference Alignment using ESPAR Antennas
Rongrong Qian (Heriot-Watt University, United Kingdom); Mathini Sellathurai (Heriot-Watt University, United Kingdom)
pp. 4885-4889
SPC-14: Modulation and Coding

**L2-Orthogonal ST-Code Design for Multi-h CPM with fast Decoding**
Miguel Hisojo (University of Nice & I3S Laboratory, France); Jerome Lebrun (CNRS, France); Luc Deneire (University of Nice, France)
pp. 4890-4894

**Detecting Linear Block Codes in Noise using the GLRT**
Arti Yardi (IIT Bombay, India); Saravanan Vijayakumaran (IIT Bombay, India)
pp. 4895-4899

**Near Maximum Likelihood Detection Algorithm Based on 1-flip Local Search over Uniformly Distributed Codes**
Amor Nafkha (SUPELEC/IETR, France)
pp. 4900-4904

**Distributed Joint Source-Channel Code for Spatial-Temporally Correlated Markov Sources**
Ning Sun (University of Arkansas, USA); Jingxian Wu (University of Arkansas, USA); Guoqing Zhou (University of Arkansas, USA)
pp. 4905-4910

**Distributed Space-Time Coding of Over-the-Air Superimposed Packets in Wireless Networks**
Antonios Argyriou (University of Thessaly & CERTH, Greece)
pp. 4911-4915

SPC-15: Beamforming

**Robust Downlink Beamforming With Imperfect CSI**
Mati Tshangini (Kings College, United Kingdom); Mohammad Reza Nakhai (King's College London, United Kingdom)
pp. 4916-4920

**Optimal Beamforming for Single Group Multicast Systems Based on Weighted Sum Rate**
Bo Du (Southeast University, P.R. China); Ming Chen (Southeast University, P.R. China); Wence Zhang (Southeast University, P.R. China); Cunhua Pan (Southeast University, P.R. China)
pp. 4921-4925

**Block Coordinated Beamforming Algorithm for Multi-Cell MISO Downlink Systems**
He Shiwen (School of Information Science and Engineering, Southeast University, P.R. China); Yangming Huang (Southeast University, P.R. China); Arumugam Nallanathan (King's College London, United Kingdom); Yang Luxi (Southeast University, P.R. China); Lei Jiang (NEC Laboratories China, P.R. China); Ming Lei (NEC Laboratories China, P.R. China); Shi Jin (Southeast University, P.R. China)
pp. 4926-4930

**Cognitive Beamforming with Unknown Cross Channel State Information**
Sheng-Ming Cai (Nanyang Technological University, Singapore); Yi Gong (Nanyang Technological University, Singapore)
pp. 4931-4935

**Distributed Beamforming with Imperfect Phase Synchronization for Cognitive Radio Networks**
Andrew Minturn (University of Nebraska-Lincoln, USA); Deepraj Varnekar (University of Nebraska Lincoln, USA); Yaoqing (Lamar) Yang (University of Nebraska-Lincoln, USA)
pp. 4936-4940

SPC-16: Compressed Sensing

**Analog Compressed Sensing for Multiband Signals with Non-Modulated Slepian Basis**
Xianjun Yang (Beijing University of Post and Telecommunication, P.R. China); Eryk Dukkiewicz (Macquarie University, Australia); Qimei Cui (Beijing University of Posts and Telecommunications, P.R. China); Xiaojing Huang (CSIRO Computational Informatics, Australia); Xiaofeng Tao (Beijing
Application of Compressive Sensing to Channel Estimation of High Mobility OFDM Systems
Neda Aboutorab (The Australian National University, Australia); Wibowo Hardjawana (The University of Sydney, Australia); Branka Vucetic (The University of Sydney, Australia)
pp. 4946-4950

Distributed Sparse Channel Estimation for OFDM Systems with High Mobility
Peng Cheng (Shanghai Jiao Tong University & CSIRO Computational Informatics, P.R. China); Zhuo Chen (CSIRO ICT Centre, Australia); Gui Lin (Shanghai Jiao Tong University, P.R. China); Y Jay Guo (CSIRO, Australia); Meixia Tao (Shanghai Jiao Tong University, P.R. China); Yun Rui (Shanghai Advanced Research Institute, Chinese Academy of Sciences, P.R. China)
pp. 4951-4956

Aliasing-Tolerant Sub-Nyquist Sampling of FRI Signals
Andre Angierski (University of Rostock, Germany); Volker Kuehn (University of Rostock, Germany)
pp. 4957-4961

Wireless Compressive Sensing for Energy Harvesting Sensor Nodes over Fading Channels
Gang Yang (Nanyang Technological University, Singapore); Vincent Y. F. Tan (National University of Singapore, Singapore); Chin Keong Ho (Institute for Infocomm Research, A*STAR, Singapore); See Ho Ting (Nanyang Technological University, Singapore); Yong Liang Guan (Nanyang Technological University, Singapore)
pp. 4962-4967
WC-01: Cooperative communications - 1

**Performance Analysis of Decode-and-Forward Relaying with Optimum Combining in the Presence of Co-Channel Interference**
Navod Suraweera (University of Alberta, Canada); Norman Beaulieu (University of Alberta, Canada)
pp. 4968-4972

**Performance Analysis of Cooperative DF Relaying over Correlated Nakagami-m Fading Channels**
Kai Yang (Alcatel-Lucent Shanghai Bell Co., Ltd, P.R. China); Jie Yang (Beijing Institute of Technology, P.R. China); Jinsong Wu (Bell Laboratories & Alcatel-Lucent, P.R. China); Chengwen Xing (Beijing Institute of Technology & University of Hong Kong, P.R. China)
pp. 4973-4977

**Multi-Hop Amplify-and-Forward Relaying Cooperation in the Presence of I/Q Imbalance**
Jian Qi (University of Reading, United Kingdom); Sonia Aissa (INRS, University of Quebec, Canada); Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi Arabia)
pp. 4978-4982

**Outage Analysis of Nth-Best DF Relay Networks in the Presence of CCI over Rayleigh Fading Channels**
Anas M. Salhab (King Fahd University of Petroleum & Minerals, Saudi Arabia); Fawaz Al-Qahtani (Texas A&M University at Qatar & Education City, Qatar); Salam A. Zummo (KFUPM, Saudi Arabia); Hussein Alnuweiri (Texas A&M University, Qatar)
pp. 4983-4988

**Decentralized Relay Coordination for Weighted Sum Rate Maximization in TDD Multiuser Multi-Relay Systems**
Qi Sun (Beijing University of Posts and Telecommunications, P.R. China); Lihua Li (Beijing University of Posts and Telecommunications, P.R. China); Ping Zhang (Wireless Technology Innovation Lab, Beijing University of Posts and Telecommunications, P.R. China)
pp. 4989-4994

WC-02: Femtocells

**Outage Constrained Transmission Optimization for MISO Two-Tier Femtocell Networks**
Kun-Yu Wang (National Tsing Hua University, Taiwan); Neil Jacklin (University of California, Davis, USA); Zhi Ding (University of California at Davis, USA); Chong-Yung Chi (National Tsing Hua University, Taiwan)
pp. 4995-4999

**Distributed Cross-Layer Resource Allocation for Statistical QoS Provisioning in Femtocell Networks**
Cen Lin (Georgia Institute of Technology, USA); Meixia Tao (Shanghai Jiao Tong University, P.R. China); Gordon Stuber (Georgia Institute of Technology, USA); Yuan Liu (South China University of Technology, P.R. China)
pp. 5000-5004

**Bit-Map Based Resource Partitioning in LTE-A Femto Deployment**
Petri Luoto (University of Oulu, Finland); Jouko T Leinonen (Ericsson, Finland); Pekka Pirinen (University of Oulu, Finland); Vinh Van Phan (Nokia Siemens Networks, Finland); Matti Latva-aho (UOuOlu, Finland)
pp. 5005-5009

**Analysis of Area Spectral Efficiency for Co-Channel Deployed Macrocell-Femtocell OFDMA Networks**
Prabhu Chandhar (Indian Institute of Technology Kharagpur, India); Suvra Sekhar Das (Indian Institute of Technology Kharagpur, India)
pp. 5010-5014
Cross-tier Interference Mitigation in Femto-Macro Cellular Architecture in Downlink
Rizwan Ghaffar (Samsung US R&D Center, Canada); Pin-Han Ho (University of Waterloo, Canada)
pp. 5015-5020

WC-04: OFDM/OFDMA - 1

Diversity Analysis of Bit-Interleaved Coded Multiple Beamforming with Orthogonal Frequency Division Multiplexing
Boy Li (University of California, Irvine, USA); Ender Ayanoglu (University of California, Irvine, USA)
pp. 5021-5026

Conditional Outage Performance Analysis Framework for OFDM Channels
Bo Bai (Tsinghua University, P.R. China); Wei Chen (Tsinghua University, P.R. China); Khaled B. Letaief (The Hong Kong University of Science and Technology, Hong Kong); Zhigang Cao (Tsinghua University, P.R. China)
pp. 5027-5031

Low Complexity Precoded OFDM System
Sabah Nayyef (University, United Kingdom); Charalampos C. Tsimenidis (Newcastle University, United Kingdom); Bayan S Sharif (Khalifa University, UAE); Arafat J. Al-Dweik (Khalifa University, UAE); Said Boussakta (Newcastle University, United Kingdom)
pp. 5032-5036

Signalling-Assisted Modulation Classification in Wireless OFDM Systems With Adaptive Modulation andCoding
Lars Haering (University Duisburg-Essen, Germany); Christian Kisters (University Duisburg-Essen, Germany)
pp. 5037-5041

A Robust Low Complexity Frequency Domain Iterative Block DFE for SC-FDMA System
Qiucai Wang (Beijing University of Posts and Telecommunications, P.R. China); Chaowei Yuan (Beijing University of Posts and Telecommunications, P.R. China); Jinbo Zhang (Beijing University of Posts and Telecommunications, P.R. China); Yingxue Li (Beijing University of Posts and Telecommunications, P.R. China)
pp. 5042-5046

WC-P1: WCS poster session 1

Finite-State Markov Modeling of Tunnel Channels in Communication-based Train Control (CBTC) Systems
Hongwei Wang (Carleton University, Canada); F. Richard Yu (Carleton University, Canada); Li Zhu (Carleton University, Canada); Tao Tang (Beijing Jiaotong University, P.R. China); Bing Ning (State Key Laboratory of Rail Traffic Control and Safety, P.R. China)
pp. 5047-5051

Interference Engineering for Network Secrecy in Nakagami Fading Channels
Alberto Rabbachin (Massachusetts Institute of Technology, USA); Andrea Conti (ENDIF University of Ferrara, WiLAB University of Bologna, Italy); Moe Win (Massachusetts Institute of Technology, USA)
pp. 5052-5056

Envelope Level Crossing Rate in Mobile-to-Mobile Underwater Fading Channels
Bryan Blankenagel (Georgia Institute of Technology, USA); Alenka G. Zajic (Georgia Institute of Technology, USA)
pp. 5057-5061
**WC-05: Cellular systems - 1**

**Interference Suppression based on Soft Blanking and Iterative Likelihood Test for LTE Uplink**
Mehmet Bahadir Celebi (University of South Florida, USA); Ismail Güvenç (Florida International University, USA); Huseyin Arslan (University of South Florida, USA); Khalid A. Qaraqe (Texas A&M University at Qatar, USA)
pp. 5062-5067

**Reduction of HARQ memory in low mobility LTE systems**
Rodolfo Torrea-Duran (KUL, Belgium); Claude Desset (IMEC, Belgium); Sofie Pollin (KU Leuven, USA); Liesbet Van der Perre (IMEC, Belgium)
pp. 5068-5072

**A Solution to Relieve ICI Effects on System Control Information in OFDM-based Mobile Networks: Conflict Coordination on PDCCH via PCI Planning**
Hemin Yang (Peking University, P.R. China); Ruipeng Gao (Peking University, P.R. China); Anpeng Huang (Peking University, P.R. China); LinZhen Xie (Peking University, P.R. China)
pp. 5073-5077

**Reliable Rate-Optimized Video Multicasting Services over LTE/LTE-A**
Andrea Tassi (University of Florence, Italy); Chadi Khirallah (The University of Edinburgh, United Kingdom); Dejan Vukobratović (University of Novi Sad, Serbia); Francesco Chiti (Università degli Studi di Firenze, Italy); John Thompson (University of Edinburgh, United Kingdom); Romano Fantacci (University of Florence, Italy)
pp. 5078-5082

**Enabling LTE/WiFi coexistence by LTE blank subframe allocation**
Erika Almeida (Nokia Institute of Technology, Brazil); Andre Cavalcante (Nokia Institute of Technology, Brazil); Rafael Paiva (INDT, Brazil); Fabiano de Sousa Chaves (Nokia Institute of Technology, Brazil); Fuad Mousse Abinader, Junior (Nokia Institute of Technology & Federal University of Rio Grande do Norte (UFRN), Brazil); Robson Domingos Vieira (Nokia Institute of Technology & Federal University of Brasilia, Brazil); Sayantan Choudhury (Nokia Research Center, USA); Esa Tuomaala (Nokia Research Center, Finland); Klaus Doppler (Nokia, Finland)
pp. 5083-5088

**WC-06: Wireless networks - 1**

**Performance of Terrestrial Network with the Presence of Overlay Satellite Network**
Antti Roivainen (Centre for Wireless Communications, Finland); Juha Ylitalo (Eletrobit, Finland); Jukka Kyröläinen (Eletrobit, Finland); Markku Juntti (University of Oulu, Finland)
pp. 5089-5093

**On the Exploitation of OFDMA Properties for an Efficient Alert Message Flooding in VANETs**
Alessandro Bazzi (WiLab, IEIIT-BO/CNR, University of Bologna, Italy); Barbara M Masini (IEIIT-CNR & University of Bologna, Italy); Flavio Zabini (University of Bologna, Italy)
pp. 5094-5098

**Analysis of Intervehicle Communication**
Youngmin Jeong (Kyung Hee University, Korea); Hyundong Shin (Kyung Hee University, Korea); Moe Win (Massachusetts Institute of Technology, USA)
pp. 5099-5104

**Multi-Packet Communication in 802.11 Networks by Spatial Reuse: from Theory to Protocol**
Fulvio Babich (University of Trieste, Italy); Massimiliano Comisso (University of Trieste, Italy); Alessandro Crismani (University of Klagenfurt, Italy); Aljosa Dorni (University of Trieste, Italy)
pp. 5105-5109

**About the practicality of using partially overlapping channels in IEEE 802.11 b/g networks**
Michael Doering (Technische Universität Berlin, Germany); Łukasz Budzisz (Technical University of Berlin, Germany); Daniel Willkomm (Technische Universität Berlin, Germany); Adam M Wolisz (Technical University of Berlin, Germany)
pp. 5110-5114
WC-07: Network coding and resource allocation

**Field Size of Random Network Coding in Untrustworthy Networks**
Sang Wu Kim (Iowa State University, USA); Duk Hee Yoon (Iowa State University, USA)
pp. 5115-5119

**Instantly Decodable Network Coding Protocols with Unequal Error Protection**
Muhammad Muhammad (German Aerospace Center (DLR), Germany); Matteo Berioli (German Aerospace Center (DLR), Germany); Gianluigi Liva (DLR - German Aerospace Center, Germany); Giovanni Giambene (University of Siena, Italy)
pp. 5120-5125

**Experimental Study of the Interplay of Channel and Network Coding In Low Power Sensor Applications**
Georgios Angelopoulos (Massachusetts Institute of Technology, USA); Arun Paidimarri (Massachusetts Institute of Technology, USA); Anantha Chandrakasan (Massachusetts Institute of Technology, USA); Muriel Médard (MIT, USA)
pp. 5126-5130

**Throughput versus Fairness Tradeoff Analysis**
Flavio Zabini (University of Bologna, Italy); Alessandro Bazzi (WiLab, IEIIT-BO/CNR, University of Bologna, Italy); Barbara M Masini (IEIIT-CNR & University of Bologna, Italy)
pp. 5131-5136

**Channel Quantization Based Physical-layer Network Coding**
Shengli Zhang (Shenzhen University, P.R. China); Qingfeng Zhou (Hefei University of Technology, P.R. China); Caihong Kai (Hefei University of Technology, P.R. China); Wei Zhang (The University of New South Wales, Australia)
pp. 5137-5142

WC-08: Millimeter wave communications

**28 GHz Propagation Measurements for Outdoor Cellular Communications Using Steerable Beam Antennas in New York City**
Yaniv Azar (NYU-Poly & NYU WIRELESS, USA); George N. Wong (New York University & NYU WIRELESS, USA); Kevin Wang (NYU-Poly, USA); Rimma Mayzus (NYU WIRELESS & NYU-Poly, USA); Jocelyn K Schulz (New York University & NYU WIRELESS, USA); Hang Zhao (NYU WIRELESS & NYU-Poly, USA); Felix Gutierrez, Jr. (NYU WIRELESS & NYU-Poly, USA); Duckdong Hwang (SungKyunkwan University, Korea); Theodore Rappaport (New York University & NYU WIRELESS, USA)
pp. 5143-5147

**Quality-Aware Coding and Relaying for 60 GHz Real-Time Wireless Video Broadcasting**
Joongheon Kim (USC and Intel, USA); Yafei Tian (Beihang University, P.R. China); Stefan Mangold (Disney Research, Switzerland); Andreas Molisch (University of Southern California, USA)
pp. 5148-5152

**Characterization of Path Loss and Delay Spread of 60-GHz UWB Channels vs. Frequency**
Dajana Cassioli (University of L’Aquila, Italy); Luca Alfredo Annoni (2T srl Information Technology Consulting, Italy); Stefano Piersanti (RadioLabs, Italy)
pp. 5153-5157

**Iterative Tx and Rx Phase Noise Compensation for 60 GHz Systems with SC-FDE Transmission**
Changming Zhang (Tsinghua University, P.R. China); Zhenyu Xiao (Beihang University, P.R. China); Bo Gao (Tsinghua University, P.R. China); Li Su (Tsinghua University, P.R. China); Depeng Jin (Tsinghua University, P.R. China)
pp. 5158-5162

**28 GHz Millimeter Wave Cellular Communication Measurements for Reflection and Penetration Loss in and Around Buildings in New York City**
Hang Zhao (NYU WIRELESS & NYU-Poly, USA); Rimma Mayzus (NYU WIRELESS & NYU-Poly, USA); Shu Sun (NYU WIRELESS & NYU-Poly, USA); Mathew Samimi (NYU Poly, USA); Jocelyn K Schulz (New York University & NYU WIRELESS, USA); Yaniv Azar (NYU-Poly & NYU WIRELESS, USA); Kevin Wang (NYU-Poly, USA); George N. Wong (New York University & NYU WIRELESS, USA); Felix
WC-P2: WCS poster session 2

**Loading Prediction and Barring Controls for Machine Type Communication**
Chie Ming Chou (National Chiao Tung University, Taiwan); ChingYao Huang (National Chiao Tung University, Taiwan); Chun-Yuan Chiu (ITRI, Taiwan)
pp. 5168-5172

**A Delay Tolerant Control Scheme for Communication-based Train Control (CBTC) Systems with Unreliable Wireless Networks**
Bing Bu (State Key Lab of Rail Control and Safety, Beijing Jiaotong University, P.R. China); F. Richard Yu (Carleton University, Canada); Tao Tang (Beijing Jiaotong University, P.R. China); Chunhai Gao (Beijing Jiaotong University, P.R. China)
pp. 5173-5177

**Joint Slepian-Wolf/Dirty-Paper Coding**
Momin Uppal (Lahore University of Management Sciences, Pakistan); Khalid A. Qaraqe (Texas A&M University at Qatar, USA); Zixiang Xiong (Texas A&M University, USA)
pp. 5178-5182

WC-09: Hetnets - 1

**Time Domain Bi-level Downlink Power Control for Cross-Tier Interference Mitigation in HetNet**
Haining Wang (University of California, Davis, USA); Zhi Ding (University of California at Davis, USA); Michal Cierny (Aalto University, Finland); Risto Wichman (Aalto University School of Electrical Engineering, Finland)
pp. 5183-5187

**Downlink Rate Distribution in Multi-RAT Heterogeneous Networks**
Sarabjot Singh (The University of Texas at Austin, USA); Harpreet S Dhillon (University of Southern California, USA); Jeffrey Andrews (The University of Texas at Austin, USA)
pp. 5188-5193

**Hierarchical Radio Resource Optimization for Heterogeneous Networks with Dynamic ABS**
An Liu (Hong Kong University of Science and Technology, Hong Kong); Vincent Lau (Hong Kong University of Science and Technology, Hong Kong); Liangzhong Ruan (HKUST, Hong Kong); Junting Chen (HKUST, Hong Kong); Dengkun Xiao (Huawei Technologies CO., LTD., P.R. China)
pp. 5194-5198

**Carrier Aggregation in Heterogeneous Cellular Networks**
Xingqin Lin (The University of Texas at Austin, USA); Jeffrey Andrews (The University of Texas at Austin, USA); Rapeepat Ratasuk (Nokia Siemens Networks, USA); Bishwarup Mondal (Nokia Siemens Networks, USA); Amitava Ghosh (Nokia Siemens Networks, USA)
pp. 5199-5203

**Rethinking Offload: How to Intelligently Combine Wi-Fi and Small Cells?**
Meryem Simsek (Florida International University, USA); Mehdi Bennis (Centre of Wireless Communications, University of Oulu, Finland); Mérouane Debbah (Supelec, France); Andreas Czyliwik (Universität Duisburg-Essen, Germany)
pp. 5204-5208

**3D performance analysis of a heterogeneous LTE network with indoor small-cells in a real urban environment**
Florian Letourneux (Siradel, France); Yoann Corre (SIRADEL, France); Erwan Suteau (SIRADEL Canada, Canada); Yves Lostanlen (SIRADEL & University of Toronto, Canada)
pp. 5209-5213
WC-10: Interference channels

**Limited Feedback Schemes Based on Inter-Cell Interference Alignment in Two-cell Interfering MIMO-MAC**
Ruixue Zhou (Beijing University of Posts and Telecommunications, P.R. China); Tiejun Lv (Beijing University of Posts and Telecommunications, P.R. China); Wei Long (Beijing University of Posts and Telecommunications, P.R. China); Hui Gao (Singapore University of Technology and Design, Singapore)
pp. 5214-5218

**Improper Gaussian Signaling for the K-User SISO Interference Channel**
Yong Zeng (Nanyang Technological University, Singapore); Cenk M. Yetis (Mevlana University, Turkey); Erry Gunawan (Singapore); Yong Liang Guan (Nanyang Technological University, Singapore); Rui Zhang (National University of Singapore, Singapore)
pp. 5219-5223

**Signal Group Based Alignment in K-User MIMO Y Channel**
Hua Mu (Auburn University, USA); Jitendra Tjignait (Auburn University, USA)
pp. 5224-5229

**Aligned Interference Neutralisation for 2x2x2 Interference Channel with Imperfect Channel State Information**
Refik Ustok (Victoria University of Wellington, New Zealand); Pawel A. Dmochowski (Victoria University of Wellington, New Zealand); Peter J Smith (The University of Canterbury, New Zealand); Mansoor Shafi (Telecom New Zealand, New Zealand)
pp. 5230-5235

**Semi-Blind Interference Alignment Based on OFDM over Frequency Selective X Channels**
Manato Takai (Shizuoka University, Japan); Koji Ishibashi (The University of Electro-Communications, Japan); Won-Yong Shin (Dankook University, Korea); Hyo Seok Yi (Harvard University, USA); Tadahiro Wada (Shizuoka University, Japan)
pp. 5236-5241

**Exploiting the Initial and the Final Conditions for the Alternating Minimization Algorithm**
Che-Chen Chou (National Tsing Hua University, Taiwan); Hsin-Jui Chou (National Tsing Hua University, Taiwan); Jen-Ming Wu (National Tsing Hua University, Taiwan)
pp. 5242-5246

WC-11: Modulation and coding

**A Novel SISO Trellis Strategy for Relaying Distorted Signals in Wireless Networks**
Xuanxuan Lu (Lehigh University, USA); Tiffany Jing Li (Lehigh University, USA); Yang Liu (Lehigh University, USA); Chau Yuen (Singapore University of Technology and Design, Singapore)
pp. 5247-5251

**Efficient Embedded Signaling Through Rotated Modulation Constellations for SLM-Based OFDM Systems**
Mouna Sghaier (High School of Communications of Tunis (SUPCOM), Tunisia); Fatma Abdelkefi (High School of Communications of Tunis (SUPCOM), Tunisia); Mohamed Siala (Sup'Com, Tunisia)
pp. 5252-5256

**On Coding Over Finite "Packets" in Wireless Communication Systems**
Cenk Sahin (University of Kansas, USA); Lingjia Liu (University of Kansas, USA); Erik S. Perrins (University of Kansas, USA)
pp. 5257-5262

**A Novel Multi-carrier Scheme: Cyclic Block Filtered Multitone Modulation**
Andrea M Tonello (University of Udine, Italy)
pp. 5263-5267

**Application of a Leakage Based Precoding Scheme to Mitigate Intrinsic Interference in FBMC**
Upul Jayasinghe (University of Oulu, Finland); Nandana Rajatheva (University of Oulu, Finland); Matti Latva-aho (UOulu, Finland)
pp. 5268-5272
Capacity-Based MIMO Mode Switching Scheme Between STBC and DSTBC for Relay-Assisted Cellular Networks
Xia Shen (Peking University, P.R. China); Rongqing Zhang (Peking University, P.R. China); Xiang Cheng (Peking University, P.R. China); Zhimin Liu (Peking University, P.R. China); Bingli Jiao (Peking University, P.R. China)
pp. 5279-5283

On the Impact of Backhaul Channel Reliability on Cooperative Wireless Networks
Zoltan Mayer (Chalmers University of Technology, Sweden); Jingya Li (Chalmers University of Technology, Sweden); Agisilaos Papadogiannis (Chalmers University of Technology, Sweden); Tommy Svensson (Chalmers University of Technology, Sweden)
pp. 5284-5289

Joint Source-Relay Design in Multi-Antenna Multi-Relay Networks with Prefixed Receivers
Aissa Ikleif (University of British Columbia, Canada); Robert Schober (University of British Columbia, Canada)
pp. 5290-5295

Adaptive Beamforming Designs for MIMO AF Relaying Systems with Direct Link
Han-Bae Kong (Korea University, Korea); Changick Song (Imperial College London, United Kingdom); Haewook Park (Korea University, Korea); Inkyu Lee (Korea University, Korea)
pp. 5296-5300

Exact Ergodic Capacity of MIMO OSTBC Amplify-and-Forward Relay Network with Antenna Correlation
Nuwan S. Ferdinand (University of Oulu, Finland); Nandana Rajatheva (University of Oulu, Finland); Matti Latva-aho (UoOulu, Finland)
pp. 5301-5305

An Efficient Beamforming Scheme for Generalized MIMO Two-Way X Relay Channels
Kangqi Liu (Shanghai Jiao Tong University, P.R. China); Zhengzheng Xiang (Shanghai Jiao Tong University, P.R. China); Meixia Tao (Shanghai Jiao Tong University, P.R. China); Xiaodong Wang (Columbia University, USA)
pp. 5306-5310

WC-P3: WCS poster session 3

UWB Radio Channel Characterization and Design for Intra Spacecraft Communication
Johannes H.C. van den Heuvel (Holst Centre / imec & IMEC, The Netherlands); Jac Romme (IMEC / Holst Centre, The Netherlands); Jean-Francois Dufour (European Space Agency & ESTEC, The Netherlands); Guido Dolmans (Holst Centre / IMEC-NL, The Netherlands); Nauman F. Kiyani (Holst Centre / IMEC-NL, The Netherlands); Kathleen Philips (IMEC / Holst Centre, The Netherlands); Harmke de Groot (Holst Centre/IMEC, The Netherlands)
pp. 5311-5316

Uplink Pre-Equalization for CC-CDMA Systems under Frequency Selective Fading
Siuye Sun (Harbin Institute of Technology, P.R. China); Weixiao Meng (Harbin Institute of Technology, P.R. China); Hsiaw-Hwa Chen (National Cheng Kung University, Taiwan)
pp. 5317-5321

A MIMO-ANN System for Increasing Data Rates in Organic Visible Light Communications Systems
Paul Anthony Haigh (Northumbria University, United Kingdom); Zabih Ghassemlooy (Northumbria University, United Kingdom); Ioannis Papakonstantinou (University College London, United Kingdom); Francesco Arca (Siemens AG Corporate Technology, Germany); Sandro Tedde (Siemens
WC-13: Cooperative communications - 3

Rate-Adaptive HARQ in Relay-based Cooperative Transmission
Saeed Reza Khosravirad (McGill University, Canada); Leszek Szczecinski (INRS-EMT, Canada); Fabrice Labeau (McGill University, Canada)
pp. 5328-5333

Multiple Access with Asynchronous Broadcasting in Wireless Cooperative Networks
Antonios Argyriou (University of Thessaly & CERTH, Greece)
pp. 5334-5338

Compress-and-Forward on a Multiaccess Relay Channel With Computation at the Receiver
Mohieddine El Soussi (Université Catholique de Louvain, Belgium); Abdellatif Zaidi (Université Paris-Est Marne La Vallée, France); Luc Vandendorpe (University of Louvain, Belgium)
pp. 5339-5344

Misbehavior Detection in Amplify-and-Forward Cooperative OFDM Systems
Weikun Hou (The University of Western Ontario, Canada); Xianbin Wang (The University of Western Ontario, Canada); Ahmed Refaey (University of Western Ontario, Canada)
pp. 5345-5349

SNR Penalty from the Path-loss Disparity in Virtual Multiple-Input-Single-Output (VMISO) Link
Haejoon Jung (Georgia Institute of Technology, USA); Mary Ann Ingram (Georgia Institute of Technology, USA)
pp. 5350-5354

WC-14: Cellular systems - 2

An Efficient Inter-site Interference Model for 4G Wireless Networks
Ahmed Amate (University of Hertfordshire, United Kingdom); Stratis Sofianos (University of Hertfordshire, United Kingdom); Milos Milosavljevic (University of Hertfordshire, United Kingdom); Pandelis Kourtessis (University of Hertfordshire, United Kingdom); John Micheal Senior (University of Hertfordshire, United Kingdom)
pp. 5355-5359

A New Analysis of the DS-CDMA Cellular Uplink Under Spatial Constraints
Don Torrieri (US Army Research Laboratory, USA); Matthew Valenti (West Virginia University, USA); Salvatore Talarico (West Virginia University, USA)
pp. 5360-5365

Analysis of Fractional Frequency Reuse in OFDMA Networks for Real Time and Best Effort Traffic
Subbarao Boddu (Indian Institute of Technology Kharagpur, India); Atri Mukhopadhyay (Indian Institute of Technology Kharagpur, India); Prabhu Chandhar (Indian Institute of Technology Kharagpur, India); Bigi Varghese Philip (Indian Institute of Technology Kharagpur, India); Suvra Sekhar Das (Indian Institute of Technology Kharagpur, India)
pp. 5366-5370

Rate Optimization for Relay-Assisted Downlink Cellular Systems Using Superposition Coding
Stefano Rini (Stanford, USA); Levan Ghaghanidze (Technical University Munich, Germany); Ernest Kurniawan (Stanford University & Institute for Infocomm Research, USA); Andrea Goldsmith (Stanford University, USA)
pp. 5371-5375

Generalized Area Spectral Efficiency: An Effective Performance Metric for Green Wireless Communications
Lei Zhang (University of Victoria, Canada); Hong-Chuan Yang (University of Victoria, Canada); Mazen Omar Hasna (Qatar University, Qatar)
pp. 5376-5380
WC-15: Multiuser MIMO - 2

**Pilot Design for Large-Scale Multi-Cell Multiuser MIMO Systems**
Anzhong Hu (Beijing University of Posts and Telecommunications, P.R. China); Tiejun Lv (Beijing University of Posts and Telecommunications, P.R. China); Hui Gao (Singapore University of Technology and Design, Singapore)
pp. 5381-5385

**Limited Feedback Multiuser MISO Systems with Differential Codebooks in Correlated Channels**
Jawad Mirza (Victoria University of Wellington, New Zealand); Pawel A. Dmochowski (Victoria University of Wellington, New Zealand); Peter J Smith (The University of Canterbury, New Zealand); Mansoor Shafi (Telecom New Zealand, New Zealand)
pp. 5386-5391

**A Joint Adaptive Beamforming and User Scheduling Algorithm for Downlink Network MIMO Systems**
Sung-Hyun Moon (ETRI, Korea); Changhee Lee (Korea University, Korea); Sang-Rim Lee (Korea University, Korea); Inkyu Lee (Korea University, Korea)
pp. 5392-5397

**Clustering Method for CoMP with Limited Backhaul Data Transfer Using Convex Relaxation**
Jian Zhao (Institute for Infocomm Research, Singapore); Tony Q. S. Quek (Singapore University of Technology and Design (SUTD) & Institute for Infocomm Research, Singapore); Zander Zhongding Lei (Institute for Infocomm Research, Singapore)
pp. 5398-5403

**Uplink Sum-Rate Analysis of Multi-Cell Multi-User Massive MIMO System**
Dongming Wang (Southeast University & National Mobile Communications Research Lab., P.R. China); Chen Ji (National Mobile Communications Research Lab., Southeast University, P.R. China); Xiqi Gao (Southeast University, P.R. China); Shaohui Sun (China Academy of Telecommunications Technology (CATT), P.R. China); Xiaohu You (National Mobile Communication Research Lab., Southeast University, P.R. China)
pp. 5404-5408

WC-P4: WCS poster session 4

**On Probabilistic Data Association for Achieving Near-Exponential Diversity over Fading Channels**
Atulya Yellepeddi (Massachusetts Institute of Technology & Woods Hole Oceanographic Institution, USA); Kyeong Jin Kim (Mitsubishi Electric Research Laboratories (MERL), USA); Chunjie Duan (Mitsubishi Electric Research Laboratories, USA); Philip Orlik (Mitsubishi Electric Research Laboratories, USA)
pp. 5409-5414

**Information Transmission via Source of Opportunity Signals: Piggyback Communications**
Vincenzo Zambianchi (University of Bologna, Italy); Enrico Paolini (University of Bologna, Italy); Davide Dardari (University of Bologna, Italy)
pp. 5415-5419

**Optimal Pilot Pattern for Time Variant Channels**
Michal Simko (Vienna University of Technology, Austria); Qi Wang (Vienna University of Technology, Austria); Markus Rupp (Vienna University of Technology, Austria)
pp. 5420-5424

WC-16: Hetnets - 2

**Simple Optimizations for the Growth of Heterogeneous Networks**
Jonathan Ling (Bell Labs, Alcatel-Lucent Technologies, USA); Dmitry Chizhik (Bell Laboratories, Alcatel-Lucent, USA); Chung Shue Chen (Alcatel-Lucent Bell Labs & Laboratory of Information, Network and Communication Sciences (LINCS), France); Reinaldo Valenzuela (Lucent Technologies, USA)
Adaptive Resource Allocation for Heterogeneous Traffic over Heterogeneous Relay Networks
Yan Li (University of Kansas, USA); Lingjia Liu (University of Kansas, USA); Hongxiang Li (University of Louisville, USA); Ying Li (Samsung Telecommunications America, USA); Yang Yi (University of Missouri - Kansas City, USA)
pp. 5431-5436

Optimal Resource Allocation in HetNets
Phil Whiting (Bell Labs, Lucent Technologies, USA); Sem Borst (Alcatel-Lucent, Bell Labs & Eindhoven University of Technology, USA); Stephen Hanly (Macquarie University, Australia)
pp. 5437-5441

Massive MIMO and Small Cells: How to Densify Heterogeneous Networks
Kianoush Hosseini (University of Toronto, Canada); Jakob Hoydis (Alcatel-Lucent Bell Labs, Germany); Stephan ten Brink (Alcatel-Lucent, Bell Laboratories, Germany); Mérouane Debbah (Supelec, France)
pp. 5442-5447

Opportunistic Interference Alignment in Heterogenous Two-cell Uplink Network
Lu Yang (University of New South Wales, Australia); Wei Zhang (The University of New South Wales, Australia)
pp. 5448-5452

WC-17: Scheduling

QoS Provisioning Scheduling with Joint Optimization of Base Station and Relay Power Allocation in Cooperative OFDMA Systems
Xiao Zhang (Tsinghua University, P.R. China); Xiaoming Tao (Tsinghua University, P.R. China); Yang Li (Tsinghua University, P.R. China); Jianhua Lu (Tsinghua University, P.R. China)
pp. 5453-5457

A Novel Feedback Reduction Technique for Cellular Downlink with CDF-Based Scheduling
Hu Jin (The University of British Columbia, Canada); Bang Chul Jung (Gyeongsang National University, Korea); Victor CM Leung (The University of British Columbia, Canada)
pp. 5458-5462

Power-Controlled Cross-Layer Scheduling
Johannes Gonter (Vienna University of Technology, Austria); Norbert Goertz (Vienna University of Technology, Austria)
pp. 5463-5467

Joint Scheduling- Traffic Admission Control: Structural Results and Online Learning Algorithm
Khoa Tran Phan (McGill University, Canada); Tho Le-Ngoc (McGill University, Canada); Mihaela van der Schaar (University of California, Los Angeles (UCLA), USA); Fangwen Fu (Intel Corp., USA)
pp. 5468-5472

Multicast Scheduling in Time-Varying Wireless Networks with Delay Constraints
Kai Ying (Shanghai Jiao Tong University, P.R. China); Hui Yu (Shanghai Jiao Tong University, P.R. China); HanWen Luo (Shanghai JiaoTong University, P.R. China)
pp. 5473-5477

WC-18: Relay selection

On the Impact of Relay-side Channel State Information on Opportunistic Relaying
Anvar Tukmanov (Newcastle University, United Kingdom); Said Boussakta (Newcastle University, United Kingdom); Zhiguo Ding (Newcastle University, United Kingdom); Abbas Jamalipour (University of Sydney, Australia)
pp. 5478-5482
Performance Analysis of Triple Correlated Selection Combining for Cooperative Diversity Systems
Swaminathan Ramabadran (IIT Kharagpur, India); Rajarshi Roy (Indian Institute of Technology, Kharagpur, India); Mandha Damodaran Selvaraj (Indian Institute of Information Technology, Design and Manufacturing, India)
pp. 5483-5488

Impact of Imperfect Power Control on Splitting and Capture-Based Fast Distributed Selection
Vikas Kumar Dewangan (DRDO, India); Neellesh B. Mehta (Indian Institute of Science, India)
pp. 5489-5494

Relay Selection for Flexible Multihop Communication via Competitive Spectrum Leasing
Igor Stanojev (University of Wisconsin-Platteville, USA); Aylin Yener (Pennsylvania State University, USA)
pp. 5495-5499

Signal-Space-Alignment-based Opportunistic Two-way Communication via Relay Selection
Sujie Chen (The Hong Kong University of Science & Technology, Hong Kong); Roger Cheng (HKUST, Hong Kong)
pp. 5500-5504

WC-19: Cooperative communications - 4

MMSE-Based Filter Design for Multi-User Peer-to-Peer MIMO Amplify-and-Forward Relay Systems
JoonWoo Shin (ETRI, Korea); Jaekyun Moon (KAIST, Korea); Jae Young Ahn (Electronics and Telecommunication Research Institute, Korea)
pp. 5505-5510

Low complexity high throughput algorithms for MIMO AF relay networks
Cong Sun (Academy of Mathematics and Systems Science, Chinese Academy of Sciences, P.R. China); Eduard Jorswieck (Dresden University of Technology, Germany)
pp. 5511-5516

Cooperative MIMO Precoding for D2D Underlay in Cellular Networks
Huan Tang (University of California, Davis, USA); Chenxi Zhu (Mallard Creek Networks, USA); Zhi Ding (UC Davis, USA)
pp. 5517-5521

Fading MIMO Relay Channels with Channel Estimation Error
Bengi Aygun (Bahcesehir University, Turkey); Alkan Soysal (Bahcesehir University, Turkey)
pp. 5522-5526

Precoder Design and Node Power Allocation in Multi-Antenna Amplify-and-Forward (AF) Relay Systems
Ahmad Danaee (The University of Akron, USA); Hamid Reza Bahrami (The University of Akron, USA); Mehdi Sadeghzadeh (The University of Akron, USA)
pp. 5527-5531

Closed-form Designs for Source-Relay Joint Precoder in MIMO AF Relaying Systems with Decision Feedback Receiver
Taehoon Kim (Korea University, Korea); Changick Song (Imperial College London, United Kingdom); Inkyu Lee (Korea University, Korea)
pp. 5532-5536

WC-20: Receiver design

Low Complexity Estimation of Fast Fading Radio Channels for Higher Order Modulation
Alireza Movahedian (University of Victoria, Canada); Michael McGuire (University of Victoria, Canada)
pp. 5537-5541
Soft Turbo HARQ Combining
Mostafa El-Khamy (Samsung Research America, USA); Jungwon Lee (Samsung US R&D Center, USA); Inyup Kang (Samsung Electronics, USA)
pp. 5542-5547

An Efficient Multi-Rate LDPC-CC Decoder With Layered Decoding Algorithm
Yun Chen (Fudan University, P.R. China); Changsheng Zhou (Fudan University, P.R. China); Yuebin Huang (Fudan University, P.R. China); Xiaoyang Zeng (Fudan University, P.R. China)
pp. 5548-5552

On Efficient Use of Pilot Symbols for Multi-Path Channel Equalization of QAM Signals
Neil Jacklin (University of California, Davis, USA); Zhi Ding (University of California at Davis, USA); Yong Li (Chongqing University of Posts and Telecommunications, P.R. China)
pp. 5553-5558

NDAN SNR Estimation Techniques for Non-Equiprobable Signaling using Non-Coherent OOK Receivers
Venkatasubramanian Sridharan (Intel, Germany); Nauman F. Kiyani (Holst Centre / IMEC-NL, The Netherlands); Homayoun Nikookar (Delft University of Technology, The Netherlands); Johannes H.C. van den Heuvel (Holst Centre / imec & IMEC, The Netherlands); Guido Dolmans (Holst Centre / IMEC-NL, The Netherlands)
pp. 5559-5563

Efficient NISI Compensation Technique for a Low-Cost Satellite Video Receiver
Esteban Cabanillas (TELECOM Bretagne & NXP Semiconductors, France); Didier Lohy (NXP Semiconductors, France); Cyri Lahuec (Telecom Bretagne, France); Michel Jezequel (Telecom Bretagne, France)
pp. 5564-5567

WC-21: Wireless networks - 2

Channel State Information Feedback Control Game for Energy Efficient Wireless Networks
Lingyang Song (Peking University, P.R. China); Dalin Zhu (NEC Laboratories China, P.R. China); Ming Lei (NEC Laboratories China, P.R. China); Jianjun Wu (Peking University, P.R. China)
pp. 5568-5572

Scaling Laws for Hybrid Wireless Networks over Fading Channels: Outage Throughput Capacity and Performance Analysis
Xin Wang (University of Texas at Arlington, USA); Qilian Liang (University of Texas at Arlington, USA)
pp. 5573-5577

Throughput and Delay Analysis in Video Streaming over Block-Fading Channels
Giuseppe Cocco (CTTC, Spain); Deniz Gunduz (Imperial College London, United Kingdom); Christian Ibars (Centre Tecnologic de Telecomunicacions de Catalunya - CTTC, Spain)
pp. 5578-5582

Adjacent-Channel Interference in Frequency-Hopping Ad Hoc Networks
Matthew Valenti (West Virginia University, USA); Don Torrieri (US Army Research Laboratory, USA); Salvatore Talarico (West Virginia University, USA)
pp. 5583-5588

Radio Resource Allocation for Energy Consumption Minimization in Multi-Homed Wireless Networks
Seonwook Kim (Seoul National University, Korea); Byeong Gi Lee (Seoul National University, Korea); Daeyoung Park (Inha University, Korea)
pp. 5589-5594

Optimal Power and Range Adaptation for Green Broadcasting
Shixin Luo (National University of Singapore, Singapore); Rui Zhang (National University of Singapore, Singapore); Teng Joon Lim (National University of Singapore, Singapore)
pp. 5595-5600
Reliable Signal Transmission in Wireless Sensor Networks with Zero Bandwidth Expansion
Yang Liu (Lehigh University, USA); Xuanxuan Lu (Lehigh University, USA); Tiffany Jing Li (Lehigh University, USA)
pp. 5601-5606

An Asymptotic Secrecy Rate Analysis of a Cooperative Jamming Strategy for Physical-Layer Security
Ting-Nan Cho (National Tsing Hua University, Taiwan); Chin-Liang Wang (National Tsing Hua University, Taiwan)
pp. 5607-5612

Opportunistic Relaying in Wireless Body Area Networks: Coexistence Performance
Jie Dong (National ICT Australia & Australian National University, Australia); David B Smith (National ICT Australia, Australia)
pp. 5613-5618

OOK/DS-CDMA Bit Error Probability over Rayleigh Fading Channels
Dimitrios Katselis (KTH Royal Institute of Technology, Sweden); Carlo Fischione (KTH, Sweden); Håkan Hjalmarsson (KTH-Royal Institute of Technology, Sweden)
pp. 5619-5624