Program

Monday, June 27

I: Modulation/Coding

Downlink Multicell Processing Employing QAM Quantization under a Constrained Backhaul
Paolo Baracca (University of Padova, Italy); Stefano Tomasin (University of Padova, Italy); Nevio Benvenuto (University of Padova, Italy)
pp. 1-5

BER Analysis for BICM Transmission over Flat Fading Channels using Finite Length Codewords
Dan Zhang (RWTH Aachen University, Germany); Gerd H. Ascheid (RWTH Aachen University, Germany)
pp. 6-10

New Joint Algorithm of Blind Doppler Parameters Estimation for High-order QAM Signals
Hua Yan Yan (Department of Electronic Engineering Zhengzhou Information Science and Technology Institute, P.R. China); Hua Peng (Zhengzhou Information Science and Technology Institute, P.R. China); Li Jianqiang (Department of Electronic Engineering Zhengzhou Information Science and Technology Institute, P.R. China)
pp. 11-15

Adaptive M-QAM Signaling for Dynamic Spectrum Access
Brage Ellingsæter (Norwegian Defence Research Establishment (FFI), Norway); Torleiv Maseng (FFI, Norway)
pp. 16-20

A Low Complexity Subspace based Decoding Algorithm for Real BCH DFT Codes
Achanna Anil Kumar (Panasonic Singapore Pte. Ltd., Singapore); Anamitra Makur (Nanyang Technological University, Singapore)
pp. 21-25

Non-Binary Coding for Vector Channels
Stephan F. Pfletschinger (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Spain); David Declercq (ETIS lab. ENSEA/Cergy University/CNRS UMR, France)
pp. 26-30

A Hybrid-ARQ Protocol Using Channel Output Feedback
Zachary Chance (Purdue University, USA); Mayur Agrawal (Purdue University, USA); David Love (Purdue University, USA); Venkataramanan Balakrishnan (Purdue University, USA)
pp. 31-35
Featureless Chaotic Spread Spectrum Modulation of Arbitrary Data Constellations
Alan J Michaels (Harris Corporation, USA); David Chester (Harris Corporation, USA)
pp. 36-40

Smart Hybrid-ARQ (SHARQ) for Cooperative Communication via Distributed Relays in LTE-Advanced
Ankit Bhamri (Institute Eurecom, Sophia Antipolis & Aalto University School of Science and Technology, Espoo, France); Florian Kaltenberger (Eurecom, France); Raymond Knopp (Institut Eurecom, France); Jyri Hämäläinen (Helsinki University of Technology, Finland)
pp. 41-45

Controlling the reconstruction error in hybrid filter banks
Sérgio Soldado (Universidade de Aveiro, Portugal); Jose Vieira (Universidade de Aveiro & IEETA, Portugal); Daniel Albuquerque (Universidade de Aveiro, Portugal); Teófilo Monteiro (Universidade de Aveiro, Portugal)
pp. 46-50

Algorithms for iterative phase noise estimation based on a truncated DCT expansion
Jabran Bhatti (Ghent University, Belgium); Nele Noels (Ghent University, Belgium); Marc Moeneclaey (Ghent University, Belgium)
pp. 51-55

Low Complexity Acquisition of GPS Signals
Xiao Li (University of California, Davis, USA); Yonina C. Eldar (Technion-Israel Institute of Technology, Israel); Anna Scaglione (University of California, Davis, USA)
pp. 56-60

2: Cognitive Radio

Joint Estimation of Emitter Power and Location in Cognitive Radio Networks
Oktay Üreten (Communications Research Centre Canada, Canada); Tricia J. Willink (Communications Research Centre, Canada)
pp. 61-65

Asymptotically Efficient Multi-Channel Estimation for Opportunistic Spectrum Access
Pouya Tehrani (University of California, Davis, USA); Lang Tong (Cornell University, USA); Qing Zhao (University of California at Davis, USA)
pp. 66-70

Energy and Throughput Efficient Strategies For Cooperative Spectrum Sensing in Cognitive Radios
Sina Maleki (TU Delft, The Netherlands); Sundeep Prabhakar Chepuri (Delft University of Technology, The Netherlands); Geert Leus (Delft University of Technology, The Netherlands)
pp. 71-75
A Generalized and Parameterized Interference Model for Cognitive Radio Network
Nurul H. Mahmood (Norwegian University of Science and Technology, Norway); Ferkan Yilmaz (King Abdullah University of Science and Technology, Saudi Arabia); Mohamed-Slim Alouini (KAUST, Saudi Arabia)
pp. 76-80

Achievable Rate Regions for Cognitive Radio Gaussian Fading Channels with Partial CSIT
Umer Salim (Intel Mobile Communications, France)
pp. 81-85

Power Allocation in Multi-channel Cognitive Radio Networks with Channel Assembling
Lei Jiao (University of Agder, Norway); Meisam Razaviyayn (University of Minnesota, USA); Enbin Song (Sichuan University/University of Minnesota, P.R. China); Zhi-Quan Luo (University of Minnesota, USA); Frank Y. Li (University of Agder, Norway)
pp. 86-90

A Feedback-Based Access Scheme for Cognitive Radio Systems
Karim G Seddik (Nile University & Alexandria University, Egypt); Ahmed Sultan (Nile University, Egypt); Amr El-Sherif (Alexandria University, Egypt); Ahmed M. Arafa (Nile University, Egypt)
pp. 91-95

Group Sparse Total Least-Squares for Cognitive Spectrum Sensing
Emiliano Dall'Anese (University of Minnesota, USA); Juan Andres Bazerque (University of Minnesota, USA); Hao Zhu (University of Minnesota, USA); Georgios B. Giannakis (University of Minnesota, USA)
pp. 96-100

Wideband Power Spectrum Sensing Using Sub-Nyquist Sampling
Dyonisius Dony Ariananda (Delft University of Technology, The Netherlands); Geert Leus (Delft University of Technology, The Netherlands)
pp. 101-105

Effects of Quantization on BEP Walls for Soft Decision Based Cooperative Sensing
Sachin Chaudhari (Aalto University School of Electrical Engineering, Finland); Jarmo Lundén (Aalto University, Finland); Visa Koivunen (HUT, Finland)
pp. 106-110

Multichannel Spectrum Sensing via Multivariate Power Spectrum Analysis
Jitendra Tugnait (Auburn University, USA)
pp. 111-115

Performance Analysis of Selective Cooperation in Underlay Cognitive Networks over Rayleigh Channels
Syed Hussain (Texas A&M University at Qatar, Qatar); Mohamed M. Abdallah (Texas A&M university at Qatar & Cairo University, Qatar); Mohamed-Slim Alouini (KAUST, Saudi Arabia); Mazen Omar Hasna (Qatar University, Qatar); Khalid A. Qaraqe (Texas A&M University at Qatar, USA)
pp. 116-120
3: Sensor Networks

Switch and Examine Transmit Diversity for Spectrum Sharing Systems
Mohamed M. Abdallah (Texas A&M university at Qatar & Cairo University, Qatar); Mohamed-Slim Alouini (KAUST, Saudi Arabia); Khalid A. Qaraqe (Texas A&M University at Qatar, USA)
pp. 121-125

Distributed Detection of an Unknown Target in Clustered Wireless Sensor Networks
Sami A Aldalahmeh (University of Leeds & University, United Kingdom); Mounir Ghogho (University of Leeds, United Kingdom); Ananthram Swami (Army Research Lab., USA)
pp. 126-130

On Energy-based Localization in Wireless Sensor Networks
Marko Beko (ULHT, Lisbon & UNINOVA, Caparica, Portugal, Portugal)
pp. 131-135

Consensus in Random WSNs with Correlated Symmetric Links
Silvana Silva Pereira (Universitat Politècnica de Catalunya - Barcelona Tech, Spain); Alba Pagès-Zamora (Technical University of Catalonia & UPC, Spain)
pp. 136-140

Further Results on Decision Fusion in Censoring Sensor Networks: An Unknown Network Size
Tsang-Yi Wang (National Sun Yat-sen University, Taiwan); Jwo-Yuh Wu (National Chiao Tung University, Taiwan)
pp. 141-145

Power Constrained Linear Estimation of Correlated Sources in Hierarchical Wireless Sensor Networks
Muhammad Hafeez Chaudhary (Université Catholique de Louvain, Belgium); Luc Vandendorpe (University of Louvain, Belgium)
pp. 146-150

On the CRLB for Source Localization in a lossy Environment
Babak Moussakhani (NTNU, Norway); John Flam (NTNU, Norway); Tor A. Ramstad (Norwegian University of Science and Technology, Norway); Ilangko Balasingham (Norwegian University of Science & Technology & Oslo University Hospital, Norway)
pp. 151-155

Robust Distributed Positioning Algorithms for Cooperative Networks
Mohammad Reza Gholami (Chalmers University of Technology, Sweden); Henk Wymeersch (Chalmers University of Technology, Sweden); Erik G Ström (Chalmers University of Technology, Sweden); Mats Rydström (Chalmers University of Technology, Sweden)
pp. 156-160
Tracking a Mobile Node by Asynchronous Networks
Yiyin Wang (Delft University of Technology, The Netherlands); Geert Leus (Delft University of Technology, The Netherlands); Xiaoli Ma (Georgia Institute of Technology, USA)
pp. 161-165

Positioning Algorithms for Cooperative networks in the presence of an unknown Turn-around time
Mohammad Reza Gholami (Chalmers University of Technology, Sweden); Sinan Gezici (Bilkent University, Turkey); Erik G Ström (Chalmers University of Technology, Sweden); Mats Rydström (Chalmers University of Technology, Sweden)
pp. 166-170

A New Direction-Of-Arrival Estimation and Calibration Method for Arrays Composed of Multiple Identical Subarrays
Pouyan Parvazi (TU Darmstadt, Germany); Marius Pesavento (Technische Universität Darmstadt, Germany)
pp. 171-175

Distributed Measurement Censoring for Estimation with Wireless Sensor Networks
Eric J Msechu (University of Minnesota, USA); Georgios B. Giannakis (University of Minnesota, USA)
pp. 176-180

Censoring for Improved Performance of Distributed Detection in Wireless Sensor Networks
Karim G Seddik (Nile University & Alexandria University, Egypt); Ahmed Sultan (Nile University, Egypt); Amr El-Sherif (Alexandria University, Egypt)
pp. 181-185

Power Allocation for Robust Distributed Best-Linear-Unbiased Estimation Against Sensing Noise Variance Uncertainty
Jwo-Yuh Wu (National Chiao Tung University, Taiwan); Tsang-Yi Wang (National Sun Yat-sen University, Taiwan)
pp. 186-190

4: Channels

Applications of Tauberian Theorem for High-SNR Analysis of Performance over Fading Channels
Yuan Zhang (Arizona State University, USA); Cihan Tepedelenlioglu (Arizona State University, USA)
pp. 191-195

Diversity-Multiplexing Tradeoff for the non-separated Two-way Relay DF Channel
Arun Kumar Singh (Eurecom, France); Petros Elia (EURECOM, France); Kiran T Gowda (EURECOM, France); David Gesbert (Eurecom, France)
pp. 196-200
*Hybrid Sparse/Diffuse UWB Channel Estimation*
Nicolò Michelusi (University of Padova, Italy); Urbashi Mitra (University of Southern California, USA); Michele Zorzi (University of Padova, Italy)
pp. 201-205

*Linear Precoding Bounds for the Wyner Cellular Channel Model with Limited Cooperation*
Itsik Bergel (Bar Ilan University, Israel); Daniel Yellin (Marvell, Israel); Shlomo Shamai (The Technion, Israel)
pp. 206-210

*Stochastic Ordering of Fading Channels*
Cihan Tepedelenlioglu (Arizona State University, USA); Adithya Rajan (Arizona State University, USA); Yuan Zhang (Arizona State University, USA)
pp. 211-215

*Analysis of packet errors in Gilbert-Elliott channels*
Gerhard Hasslinger (Deutsche Telekom, Germany); Oliver Hohlfeld (TU Berlin & Deutsche Telekom Laboratories, Germany)
pp. 216-220

*Maximum-Likelihood Channel Estimation in Block Fading Amplify-and-Forward Relaying Networks*
Nico Aerts (Ghent University, Belgium); Iancu Avram (UGent, Belgium); Marc Moeneclaey (Ghent University, Belgium)
pp. 221-225

*Energy Efficient State Estimation Through Stochastic Optimization*
Luxmiram Vijayandran (Norwegian University of Science and Technology (NTNU), Norway); Kimmo Kansanen (Norwegian University of Science and Technology, Norway); Maite Brandt-Pearce (University of Virginia, USA); Torbjorn Ekman (Norwegian University of Science and Technology, Norway)
pp. 226-230

*On the performance of broadcast based consensus under non-zero-mean stochastic disturbances*
Yang Yang (Lehigh University, USA); Rick Blum (Lehigh University, USA)
pp. 231-235

*Distributed Control of Mobility & Routing in Networks of Robots*
Michael M. Zavlanos (Stevens Institute of Technology, USA); Alejandro Ribeiro (University of Pennsylvania, USA); George James Pappas (University of Pennsylvania, USA)
pp. 236-240

*Spatial Diversity with a New Sequential Maximal Ratio Combining over Wireless Fading Channels*
Yawgeng A. Chau (Yuan Ze University, Taiwan); Karl Huang (Yuan Ze University, Taiwan)
pp. 241-245
5: OFDM/FDMA

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>A message-passing receiver for BICM-OFDM over unknown clustered-sparse channels</td>
<td>Philip Schniter (The Ohio State University, USA)</td>
<td>246-250</td>
</tr>
<tr>
<td>Analytical Performance of OFDM Radio Link Under RX I/Q Imbalance and Frequency-Selective Rayleigh Fading Channel</td>
<td>Yaning Zou (Tampere University of Technology, Finland); Mikko Valkama (Tampere University of Technology, Finland); Natalia Ermolova (Aalto University, Finland); Olav Tirkkonen (Aalto University, Finland)</td>
<td>251-255</td>
</tr>
<tr>
<td>On the Accuracy of Phase Noise Bandwidth Estimation in OFDM Systems</td>
<td>Rodrigo Carvajal (The University of Newcastle, Australia); Juan Carlos Agüero (The University of Newcastle, Australia); Boris I Godoy (The University of Newcastle &amp; Centre for Complex Dynamic Systems and Control, Australia); Graham C Goodwin (the University of Newcastle, Australia)</td>
<td>256-260</td>
</tr>
<tr>
<td>Resource Allocation for Downlink Two-User OFDMA Systems with Wireless Network Coding</td>
<td>Poramate Tarasak (Institute for Infocomm Research, Singapore); Sumei Sun (Institute for Infocomm Research, Singapore)</td>
<td>261-265</td>
</tr>
<tr>
<td>Optimal Resource Allocation in OFDMA Downlink Systems With Imperfect CSI</td>
<td>Rohit Aggarwal (The Ohio State University, USA); Mohamad Assaad (Supelec, France); Can Emre Koksal (The Ohio State University, USA); Philip Schniter (The Ohio State University, USA)</td>
<td>266-270</td>
</tr>
<tr>
<td>Frequency Offset Estimation for KSP-OFDM</td>
<td>Dieter Van Welden (Ghent University, Belgium); Heidi Steendam (Ghent University, Belgium); Marc Moeneclaey (Ghent University, Belgium)</td>
<td>271-275</td>
</tr>
<tr>
<td>Energy Efficiency on Real Time Transmission in Multiuser OFDM Downlink</td>
<td>Chunhui Liu (RWTH Aachen University, Germany); Lars Schiefler (RWTH Aachen University, Germany); Anke Schmeink (RWTH Aachen University, Germany); Rudolf Mathar (RWTH Aachen University, Germany)</td>
<td>276-280</td>
</tr>
<tr>
<td>Reflection Onto Convex Sets Algorithm to Address the PAPR Problem</td>
<td>Guillaume Fumat (University of Toulouse, France); Pascal Chargé (INSA, University of Toulouse, France); Ahmed Zoubir (Axess Europe, France); Danièle Fournier-Prunaret (INSA Toulouse, France)</td>
<td>281-285</td>
</tr>
</tbody>
</table>
6: MIMO-OFDM and MIMO Precoder

A Frequency Domain Pre-Equalizer for MIMO-OFDM Mobile Communication Systems Employing Alamouti Coding
Paolo Baracca (University of Padova, Italy); Nevio Benvenuto (University of Padova, Italy); Lorenzo Vangelista (University of Padova, Italy)
pp. 306-310

On Performance Bounds for MIMO OFDM based Wireless Communication Systems
Stefan Schwarz (Vienna University of Technology, Austria); Michal Simko (Vienna University of Technology, Austria); Markus Rupp (Vienna University of Technology, Austria)
pp. 311-315

Throughput Maximizing Feedback for MIMO OFDM based Wireless Communication Systems
Stefan Schwarz (Vienna University of Technology, Austria); Markus Rupp (Vienna University of Technology, Austria)
pp. 316-320

Closed-Form Blind Channel Estimation in Orthogonally Coded MIMO-OFDM Systems: A Simple Strategy to Resolve Non-scalar Ambiguities
Nima Sarmadi (Darmstadt University of Technology, Germany); Marius Pesavento (Technische Universität Darmstadt, Germany)
pp. 321-325
On detection strategies for linearly precoded MIMO-OFDM systems  
Felip Riera-Palou (University of the Balearic Islands, Spain); Guillem Femenias (University of the Balearic Islands & Mobile Communications Group, Spain)  
pp. 326-330

Interference Mitigation Techniques for Asynchronous Multiple Access Communications in SIMO FBMC Systems  
Màrius Caus (Universitat Politecnica de Catalunya (UPC), Spain); Ana Perez-Neira (UPC, Spain)  
pp. 331-335

Near Capacity Linear Closed Form Precoder Design with Recursive Stream Selection for MU-MIMO Broadcast Channels  
Mustapha Amara (EURECOM & Orange Labs (R&D Resa/Win), France); Dirk Slock (Eurecom, France); Yi Yuan-Wu (Orange Labs, France)  
pp. 336-340

Robust Linear Precoding for MSE Minimization in MIMO Broadcast Systems with Channel Gram Matrix Feedback  
Daniel Sacristán-Murga (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Spain); Miquel Payaró (CTTC, Spain); Antonio Pascual-Iltre (Universitat Politècnica de Catalunya, Spain)  
pp. 341-345

Mutual Information Maximizing Linear Precoding for Parallel Layer MIMO Detection  
Eckhard Ohlmer (Technische Universität Dresden, Germany); Udo Wachsmann (Ericsson, Germany); Gerhard Fettweis (Technische Universität Dresden, Germany)  
pp. 346-350

Linear Precoding Based on Switched Relaying Processing for Multiuser MIMO Relay Systems  
Yunlong Cai (Zhejiang University, P.R. China); Didier Le Ruyet (CNAM, France); Rodrigo C. de Lamare (University of York, United Kingdom); Daniel Roviras (Cnam, France)  
pp. 351-355

7: MIMO and STC

Optimal Transmission for The MIMO Bidirectional Broadcast Channel in The Wideband Regime  
Tan Tai Do (KTH, Royal Institute of Technology & School of Electrical Engineering, Sweden); Tobias J. Oechtering (Royal Institute of Technology & School of Electrical Engineering, EE, Sweden); Mikael Skoglund (Royal Institute of Technology, Sweden)  
pp. 356-360
DMA Tradeoff for the MIMO Static Half-Duplex Relay
Luis G. Ordóñez (Universitat Politècnica de Catalunya - Barcelona Tech, Spain); Daniel P Palomar (Hong Kong University of Science and Technology, Hong Kong); Javier R. Fonollosa (Universitat Politècnica de Catalunya - Barcelona Tech (UPC), Spain)
pp. 361-365

Optimal V-BLAST Ordering in Fast Rayleigh Fading: A Linear Assignment Problem
Simon Järmyr (KTH Royal Institute of Technology, Sweden); Björn Ottersten (Royal Institute of Technology, Sweden); Eduard Jorswieck (Dresden University of Technology, Germany)
pp. 366-370

Linear Prediction Of Time-Varying MIMO Systems using Givens Rotations
Bruhtesfa Ebrahim Godana (Norwegian University of Science and Technology, Norway); Torbjorn Ekman (Norwegian University of Science and Technology, Norway)
pp. 371-375

Secrecy in MIMO Gaussian Bidirectional Broadcast Channels
Rafael F. Wyrembelski (Technische Universität München, Germany); Holger Boche (Technical University Munich, Germany)
pp. 376-380

An Analysis of Pilot Contamination on Multi-User MIMO Cellular Systems with Many Antennas
Balasubramanian Gopalakrishnan (University of Minnesota, USA); Nihar Jindal (University of Minnesota, USA)
pp. 381-385

Geometry Based Efficient Decoding Algorithms for Underdetermined MIMO Systems
Chung-Jung Huang (National Chiao Tung University, Taiwan); Chih-Yung Wu (National Chiao Tung University, Taiwan); Ta-Sung Lee (National Chiao Tung University, Taiwan)
pp. 386-390

Scheduling Schemes for Improved Throughput Guarantees in MIMO Broadcast Channels
Jawad Rasool (Norwegian University of Science and Technology (NTNU), Norway); Geir E. Øien (NTNU, Norway)
pp. 391-395

Space-Time Coding over Fading Channels with Alpha-Stable Noise
Junghoon Lee (Arizona State University, USA); Cihan Tepedelenlioglu (Arizona State University, USA)
pp. 396-400

Asynchronous Space Time Block Codes: Low Complexity Decoding Methods
Michel Nahas (Orange Labs & Telecom ParisTech, France); Ahmed Saadani (Orange labs, France); Rima Hatoum (Orange Labs, France)
pp. 401-405
Rate-Adaptive Modulation for Square OSTBCs in Arbitrarily Correlated Rayleigh Fading With Imperfect Channel Estimation
Lennert Jacobs (Ghent University, Belgium); Marc Moeneclaey (Ghent University, Belgium); Andrea Conti (ENDIF University of Ferrara, WiLAB University of Bologna, Italy)
pp. 406-410

8: MISO/SIMO

Weighted Sum Rate Maximization of Correlated MISO Broadcast Channels under Linear Precoding: A Large System Analysis
Sebastian Wagner (Eurecom, France); Dirk Slock (Eurecom, France)
pp. 411-415

Secrecy capacity of MISO Gaussian Wiretap Channel with a Cooperative Jammer
Ali Fakoorian (University of California, Irvine, USA); Lee Swindlehurst (University of California at Irvine, USA)
pp. 416-420

Bayesian Semi-Blind FIR Channel Estimation Algorithms in SIMO Systems
Samir Omar (Eurecom, France); Dirk Slock (Eurecom, France); Oussama Bazzi (Lebanese University, Lebanon)
pp. 421-425

An Iterative Convex Approximation Approach for Transmit Beamforming in Multi-Group Multicasting
Nils Bornhorst (Technische Universität Darmstadt, Germany); Marius Pesavento (Technische Universität Darmstadt, Germany)
pp. 426-430

Multiple Antenna Spectrum Sensing for Cognitive Radios in Unknown Noise
Jitendra Tugnait (Auburn University, USA)
pp. 431-435

Multiuser Feedback Design with Multiple Receive Antennas
Mario H. Castañeda (Munich University of Technology, Germany); Josef A. Nossek (TU Munich, Germany)
pp. 436-440

Distributed spectrum sensing with multiantenna sensors under calibration errors
Daniel Romero (University of Vigo, Spain); Roberto Lopez-Valcarce (Universidad de Vigo, Spain)
pp. 441-445

Multiantenna detection of constant-envelope signals in noise of unknown variance
Daniel Romero (University of Vigo, Spain); Roberto Lopez-Valcarce (Universidad de Vigo, Spain)
pp. 446-450
Spatial Shaping in Cognitive MIMO MAC with Coded Legacy Transmission
Eduard Jorswieck (Dresden University of Technology, Germany); Jing Lv (Dresden University of Technology, Germany)
pp. 451-455

Adaptive bit partitioning strategy for cell-edge users in multi-antenna multicell networks
Berna Özbek (CNAM, France); Didier Le Ruyet (CNAM, France)
pp. 456-460

Optimal Placement of Distributed Antennas in Cellular Systems
Sina Firouzabadi (Stanford University, USA); Andrea Goldsmith (Stanford University, USA)
pp. 461-465

Wednesday, June 29

9: Interference

The Asymptotic Limits of Interference in Multicell Networks with Channel Aware Scheduling
Paul de Kerret (EURECOM, France); David Gesbert (Eurecom, France)
pp. 466-470

On the Complexity of Leakage Interference Minimization for Interference Alignment
Ya-Feng Liu (Chinese Academy of Sciences, P.R. China); Yu-hong Dai (Chinese Academy of Sciences, P.R. China); Zhi-Quan Luo (University of Minnesota, USA)
pp. 471-475

On the use of artificial interference for secrecy with imperfect CSI
Xinjie Yang (University of California, Irvine, USA); Lee Swindlehurst (University of California at Irvine, USA)
pp. 476-480

Multiuser Receiver For PUCCH Signaling With Transmit Diversity
Icaro Da Silva (Wireless Telecommunications Group - GTEL/UFC, Brazil); André L. F. de Almeida (Wireless Telecom Research Group - Federal University of Ceara, Brazil)
pp. 481-485

On the performance indices of ICA and blind source separation
Klaus Nordhausen (University of Tampere, Finland); Esa Ollila (Aalto University, Finland); Hannu Oja (University of Tampere, Finland)
pp. 486-490
MMSE Based FDD Overhead Optimization for a Multiuser Two-way System
Israa Slim (Technische Universität München, Germany); Amine Mezghani (TU Munich, Germany); Josef A. Nossek (Technische Universität München, Germany)
pp. 491-495

Coherent Joint-Processing CoMP in Pico-Cellular Lamp-Post Street Deployment
Dragan Samardzija (Bell Labs, Alcatel-Lucent, USA); Andrej Domazetovic (University of Novi Pazar, Serbia)
pp. 496-500

Preemption and QoS Management Algorithms for Coordinated and Uncordinated Base Stations
Olga Muñoz-Medina (Technical University of Catalonia, Spain); Antonio Pascual-Iserte (Universitat Politècnica de Catalunya, Spain); Pau Baquero (UPC, Spain); Josep Vidal (Universitat Politècnica de Catalunya, Spain)
pp. 501-505

Interference Sensitivity for Multiuser MIMO in LTE
Rizwan Ghaffar (University of Waterloo, Canada); Raymond Knopp (Institut Eurecom, France)
pp. 506-510

On the Degrees of Freedom Achievable Through Interference Alignment in a MIMO Interference Channel
Meisam Razaviyayn (University of Minnesota, USA); Gennady Lyubeznik (University of Minnesota, USA); Zhi-Quan Luo (University of Minnesota, USA)
pp. 511-515

10: Cooperative and Networks

Optimization of Wireless Multi-hop Networks with Random Access
Morteza Mardani (University of Minnesota, USA); Seung-Jun Kim (University of Minnesota, USA); Georgios B. Giannakis (University of Minnesota, USA)
pp. 516-520

Quasi-Maximum Likelihood Initial Downlink Synchronization for IEEE 802.16m
Po-Sen Wang (National Chiao Tung University, Taiwan); Kai-Wei Lu (National Chiao Tung University, Taiwan); David Lin (National Chiao Tung University, Taiwan); Pangan Ting (Tsing Hua University, Taiwan)
pp. 521-525

Randomized Broadcast in Dynamic Network Environments
De Wen Soh (Institute for Infocomm Research, A*STAR, Singapore); Tony Q. S. Quek (Institute for Infocomm Research, Singapore); Wee Peng Tay (Nanyang Technological University, Singapore)
pp. 526-530
Degrees of Freedom of Asymmetrical Multi-Way Relay Networks
Fan Sun (Aalborg University, Denmark); Elisabeth de Carvalho (Aalborg University, Denmark)
pp. 531-535

The effect of Directional Antennas on Slotted CSMA ad hoc Networks
Yaniv George (Bar-Ilan University, Israel); Itsik Bergel (Bar Ilan University, Israel); Ephraim Zehavi (Bar-Ilan University, Israel)
pp. 536-540

Achievable Rate Regions in Multiple-Antenna Networks with Linear Network Coding
Johannes Richter (Dresden University of Technology, Germany); Anne Wolf (Dresden University of Technology, Germany); Eduard Jorswieck (Dresden University of Technology, Germany)
pp. 541-545

Blind Receiver for Amplify-and-Forward Cooperative Diversity Scheme
Alexandre Fernandes (Federal University of Ceará, Brazil); André L. F. de Almeida (Wireless Telecom Research Group - Federal University of Ceara, Brazil); Daniel da Costa (Federal University of Ceara (UFC) & Area: Telecommunications, Brazil)
pp. 546-550

Outage Performance of Cooperative Small-Cell Systems Under Rician Fading Channels
Jakob Hoydis (SUPÉLEC, France); Abla Kammoun (Telecom ParisTech, France); Jamal Najim (CNRS, France); Mérouane Debbah (Supelec, France)
pp. 551-555

Ali Osmane (TELECOM ParisTech, France); Sheng Yang (Supelec, France); Jean-Claude Belfiore (Ecole Nationale Supérieure des Télécommunications, France)
pp. 556-560

Distributed Network Beamforming With a Multi-Antenna Receiver
Ka Lung Law (Communication Systems Group, Darmstadt University of Technology, Germany); Alex Gershman (Darmstadt University of Technology, Germany); Shahram Shahbazpanahi (University of Ontario Institute of Technology, Canada)
pp. 561-565

Can We Cope with the Distortion of Decentralized Cooperative Schemes?
Andrea Rueetschi (University of California, Davis, USA); Anna Scaglione (University of California, Davis, USA)
pp. 566-570

An Efficient FFT Based Spectrum Analyzer for Arbitrary Center Frequencies and Arbitrary Resolutions Analysis
Fred Harris (San Diego State Univ, USA); Xiaofei Chen (San Diego State University, USA); Elettra Venosa (San Diego State University, USA)
pp. 571-575
Two Channel TI-ADC for Communication Signals
Fred Harris (San Diego State Univ, USA); Xiaofei Chen (San Diego State University, USA); Elettra Venosa (San Diego State University, USA); Francesco A. N. Palmieri (Seconda Università di Napoli, Italy)
pp. 576-580