

IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS

A PUBLICATION OF THE IEEE COMMUNICATIONS SOCIETY AND THE IEEE SIGNAL PROCESSING SOCIETY



SEPTEMBER 2016

VOLUME 15

NUMBER 9

ITWCAX

(ISSN 1536-1276)

REGULAR PAPERS

SON Coordination in Heterogeneous Networks: A Reinforcement Learning Framework	5835
..... <i>Ovidiu-Constantin Iacoboaiea, Berna Sayrac, Sana Ben Jemaa, and Pascal Bianchi</i>	
Outage Performance of Decode-and-Forward Cooperative Networks Over Nakagami- m Fading With Node Blockage	5848
..... <i>Goran T. Djordjevic, Kimmo Kansanen, and Aleksandra M. Cvetkovic</i>	
Hybrid ARQ in Multicell MU-SIMO With Large-Scale Antenna Arrays	
..... <i>Seong Hwan Kim, Tumula V. K. Chaitanya, and Tho Le-Ngoc</i>	5861
Channel Frequency Response-Based Secret Key Generation in Underwater Acoustic Systems	
..... <i>Yi Huang, Shengli Zhou, Zhijie Shi, and Lifeng Lai</i>	5875
Measurement-Based Evaluation of Spectral Efficiencies in Outdoor-Indoor Multiuser MISO Systems in Femto-Cells	5889
..... <i>Flavio Silva, Rodolfo Feick, Reinaldo A. Valenzuela, Milan S. Derpich, and Luciano Ahumada</i>	
Security-Reliability Trade-Off Analysis for Multiuser SIMO Mixed RF/FSO Relay Networks With Opportunistic User Scheduling	5904
..... <i>Ahmed H. Abd El-Malek, Anas M. Salhab, Salam A. Zummo, and Mohamed-Slim Alouini</i>	
Maximizing Expected Achievable Rates for Block-Fading Buffer-Aided Relay Channels	5919
..... <i>Mohammad Shaqfeh, Ammar Zafar, Hussein Alnuweiri, and Mohamed-Slim Alouini</i>	
Power Allocation for Multi-Pair Massive MIMO Two-Way AF Relaying With Linear Processing	5932
..... <i>Yongyu Dai and Xiaodai Dong</i>	
Performance Optimization of CSMA Networks With a Finite Retry Limit	5947
..... <i>Xinghua Sun and Lin Dai</i>	
The Intensity Matching Approach: A Tractable Stochastic Geometry Approximation to System-Level Analysis of Cellular Networks	5963
..... <i>Marco Di Renzo, Wei Lu, and Peng Guan</i>	
A Mechanism for Mobile Data Offloading to Wireless Mesh Networks	5984
..... <i>Apostolos Apostolaras, George Iosifidis, Kostas Chounos, Thanasis Korakis, and Leandros Tassioulas</i>	
A New Filter-Bank Multicarrier System With Two Prototype Filters for QAM Symbols Transmission and Reception	5998
..... <i>Hyungju Nam, Moonchang Choi, Seongbae Han, Chanhong Kim, Sooyong Choi, and Daesik Hong</i>	
Optimal Storage Allocation for Wireless Cloud Caching Systems With a Limited Sum Storage Capacity	6010
..... <i>Bi Hong and Wan Choi</i>	
Low Complexity Antenna Selection for Low Target Rate Users in Dense Cloud Radio Access Networks	6022
..... <i>Jeonghun Park and Robert W. Heath, Jr.</i>	
Relaying Strategies for Wireless-Powered MIMO Relay Networks	6033
..... <i>Yang Huang and Bruno Clerckx</i>	

(Contents Continued on Page 5833)



Millimeter Wave Energy Harvesting	<i>Talha Ahmed Khan, Ahmed Alkhateeb, and Robert W. Heath, Jr.</i>	6048
A Distributed Algorithm to Achieve Transparent Coexistence for a Secondary Multi-Hop MIMO Network	<i>Xu Yuan, Xiaoqi Qin, Feng Tian, Yi Shi, Y. Thomas Hou, Wenjing Lou, Scott F. Midkiff, and Sastry Kompella</i>	6063
A Framework for Co-Channel Interference and Collision Probability Tradeoff in LTE Licensed-Assisted Access Networks	<i>Rui Yin, Guanding Yu, Amine Maaref, and Geoffrey Ye Li</i>	6078
Robust Single Carrier Frequency Domain Equalization With Imperfect Channel Knowledge	<i>Yu Zhu, Pengfei Zhe, Hong Zhou, and Defeng Huang</i>	6091
Multipath Assisted Positioning with Simultaneous Localization and Mapping	<i>Christian Gentner, Thomas Jost, Wei Wang, Siwei Zhang, Armin Dammann, and Uwe-Carsten Fiebig</i>	6104
Content-Centric Sparse Multicast Beamforming for Cache-Enabled Cloud RAN	<i>Meixia Tao, Er kai Chen, Hao Zhou, and Wei Yu</i>	6118
Optimum Transmission Policies for Energy Harvesting Sensor Networks Powered by a Mobile Control Center	<i>Tao Li, Pingyi Fan, Zhengchuan Chen, and Khaled Ben Letaief</i>	6132
Design Optimization of Wireless Access Virtualization Based on Cost & QoS Trade-Off Utility Maximization	<i>M. Moshir Rahman, Charles Despins, and Sofiène Affes</i>	6146
Performance Investigation of Spatial Modulation Systems Under Non-Stationary Wideband High-Speed Train Channel Models	<i>Yu Fu, Cheng-Xiang Wang, Ammar Ghazal, el-Hadi M. Aggoune, and Mohammed M. Alwakeel</i>	6163
Device-to-Device Millimeter Wave Communications: Interference, Coverage, Rate, and Finite Topologies	<i>Kiran Venugopal, Matthew C. Valenti, and Robert W. Heath, Jr.</i>	6175
Friendly Jamming on Access Points: Analysis and Real-World Measurements	<i>Daniel S. Berger, Francesco Gringoli, Nicolò Facchi, Ivan Martinovic, and Jens B. Schmitt</i>	6189
Dynamic Broadband Spectrum Refarming for OFDMA Cellular Systems	<i>Shiying Han, Ying-Chang Liang, Boon-Hee Soong, and Shenghong Li</i>	6203
A Unified Metric for Correlated Diversity in Wireless Networks	<i>Shuai Wang, Anas Basalamah, Song Min Kim, Guang Tan, Yunhuai Liu, and Tian He</i>	6215
Average Capacity Maximization via Channel Switching in the Presence of Additive White Gaussian Noise Channels and Switching Delays	<i>Ahmet Dundar Sezer and Sinan Gezici</i>	6228
Downlink and Uplink Cell Association With Traditional Macrocells and Millimeter Wave Small Cells	<i>Hisham Elshaer, Mandar N. Kulkarni, Federico Boccardi, Jeffrey G. Andrews, and Mischa Dohler</i>	6244
Rateless Superposition Spinal Coding Scheme for Half-Duplex Relay Channel	<i>Wei qiang Yang, Ying Li, Xiaopu Yu, and Yue Sun</i>	6259
Proactive Spectrum Sharing Incentive for Physical Layer Security Enhancement Using Outdated CSI	<i>Kamel Tourki and Mazen O. Hasna</i>	6273
Stochastic Content-Centric Multicast Scheduling for Cache-Enabled Heterogeneous Cellular Networks	<i>Bo Zhou, Ying Cui, and Meixia Tao</i>	6284
Joint Scheduling and Power Control for Delay Guarantees in Heterogeneous Cognitive Radios	<i>Ahmed E. Ewaisha and Cihan Tepedelelioglu</i>	6298
Modeling and Analyzing the Coexistence of Wi-Fi and LTE in Unlicensed Spectrum	<i>Yingzhe Li, François Baccelli, Jeffrey G. Andrews, Thomas D. Novlan, and Jianzhong Charlie Zhang</i>	6310
Joint Sensing and Reception Design of SIMO Hybrid Cognitive Radio Systems	<i>Miltiades C. Filippou, George A. Ropokis, David Gesbert, and Tharmalingam Ratnarajah</i>	6327
On the Spectral-Energy Efficiency and Rate Fairness Tradeoff in Relay-Aided Cooperative OFDMA Systems	<i>Zhengyu Song, Qiang Ni, Keivan Navaie, Shujuan Hou, Siliang Wu, and Xin Sun</i>	6342
A Dual-Hop Virtual MIMO Architecture Based on Hybrid Differential Spatial Modulation	<i>Meng Zhang, Miaowen Wen, Xiang Cheng, and Liuqing Yang</i>	6356
A Differential QAM Detection in Uplink Massive MIMO Systems	<i>Dejin Kong, Xiang-Gen Xia, and Tao Jiang</i>	6371
Joint Power Allocation and User Association Optimization for Massive MIMO Systems	<i>Trinh Van Chien, Emil Björnson, and Erik G. Larsson</i>	6384
Efficient Sum-Rate Maximization for Medium-Scale MIMO AF-Relay Networks	<i>Mohammad Mahdi Naghsh, Mojtaba Soltanalian, Petre Stoica, Maryam Masjedi, and Björn Ottersten</i>	6400

A Diversity-Multiplexing Tradeoff Optimal Low Complexity Zero Forcing Method Based on ZP-OFDM	6412
..... <i>Mehrdad Niroomand and Mostafa Derakhtian</i>	
Statistical Modeling and Simulation of Short-Range Device-to-Device Communication Channels at Sub-THz Frequencies	6423
..... <i>Seunghwan Kim and Alenka Zajić</i>	
Energy Allocation and Cooperation for Energy-Efficient Wireless Two-Tier Networks	6434
..... <i>Rindranirina Ramamonjison and Vijay K. Bhargava</i>	
High-Resolution Direct Position Determination Using MVDR	6449
..... <i>Liran Tzafri and Anthony J. Weiss</i>	
Global Optimal Rate Control and Scheduling for Spectrum-Sharing Multi-Hop Networks	6462
..... <i>Junchao Li, Li Ping Qian, Ying Jun (Angela) Zhang, and Lianfeng Shen</i>	
Ultrawideband Tomographic Imaging in Uncalibrated Networks	6474
..... <i>Brian Beck, Xiaoli Ma, and Robert Baxley</i>	
Convergence Analysis and Assurance for Gaussian Message Passing Iterative Detector in Massive MU-MIMO Systems	6487
..... <i>Lei Liu, Chau Yuen, Yong Liang Guan, Ying Li, and Yuping Su</i>	
On the Asymptotic Capacity of Dual-Aperture FSO Systems With Generalized Pointing Error Model	6502
..... <i>Hessa AlQuwaiee, Hong-Chuan Yang, and Mohamed-Slim Alouini</i>	
A Column Generation Method for Constructing and Scheduling Multiple Forwarding Trees in Wireless Sensor Networks	6513
..... <i>Dariush Ebrahimi, Samir Sebbah, and Chadi Assi</i>	
