
VTC2017-Spring Accepted Paper List

1. Ad-Hoc, Mesh, M2M, and Sensor Networks Papers

55467

- 1 A broadcast protocol for IEEE 802.15.4e RIT based Wi-SUN systems**
Ryota Okumura, Keiichi Mizutani, Hiroshi Harada, Kyoto University

90420

- 2 A Novel Ultra-wideband-based Localization and Tracking Scheme with Channel Classification**
Zhongling Liu, Ming Yang, Chaojie Xu, Hui Yu, Shanghai Jiao Tong University

64967

- 3 Coverage comparison of GPRS, NB-IoT, LoRa, and SigFox in a 7800 km² area**
Mads Lauridsen, Huan Cong Nguyen, Benny Vejlgard, Aalborg University; István Z. Kovács, Nokia Bell Labs; Preben E. Mogensen, Aalborg University; Mads Sorensen, Telenor Denmark

25036

- 4 Data Collection in Nonuniformly Deployed Wireless Sensor Networks by Public Transportation Vehicles**
Hailong Huang, Andrey V. Savkin, University of New South Wales

87193

- 5 Decentralized Target Search in Topology Maps Based on Weighted Least Square Method**
Ashanie Gunathillake, Andrey V. Savkin, University of New South Wales

59562

- 6 Energy-Efficient D2D Discovery for Energy-Harvesting Proximal IoT Devices**
Yuan-Kang Shih, Mei-Ju Shih, Hung-Yu Wei, National Taiwan University

19983

- 7 Energy Efficient Self-Reconfiguration Scheme for Visual Information based M2M Communication**
Anas Amjad, Mohammed N. Patwary, Alison Griffiths, Staffordshire University

46745

- 8 Machine Learning Based Channel Error Diagnostics in Wireless Sensor Networks**
Su Yi, Fujitsu Research and Development Center Co., Ltd; Hao Wang, Fujitsu Research & Development Center., Ltd; Jun Tian, Fujitsu; Wenqian Xue, Lefei Wang, Xiaojing Fan, Fujitsu Research and Development Center Co., Ltd; Ryuichi Matsukura, Fujitsu Laboratories Ltd.

45736

- 9 Modeling the Impact on Performance of Memory Pooling in Heterogeneous MPSoCs**
Friedrich Pauls, Gerhard Fettweis, Technische Universität Dresden

93098

- 10 Performance Analysis of Voice over LTE using Low-Complexity eMTC Devices**
Rapeepat Ratasuk, Nokia Networks; David Bhatoolaul, Nitin Mangalvedhe, Amitava Ghosh, Nokia

21873

- 11 Power Saving Mechanism for Contention-Based M2M Transmission**
Yang Li, Bell Labs, Nokia Shanghai Bell Co., Ltd.

27089

- 12 RACH Dimensioning for Reliable MTC over Cellular Networks**
Amin Azari, KTH Royal Institute of Technology; Mohammad Istiak Hossain, KTH, Royal Institute of Technology; Jan I Markendahl, KTH Royal Institute of Technology

2. Antenna and Propagation, and RF Design Papers

46292

- 1 A 3-D Wideband Multi-Confocal Ellipsoid Model for Wireless Massive MIMO Communication Channels with Uniform Planar Antenna Array**
Lu Bai, Shandong University; Cheng-Xiang Wang, Heriot-Watt University; Shangbin Wu, Samsung R&D Institute UK; Jian Sun, University of Shandong; Wensheng Zhang, Shandong University

97213

- 2 A Mixture Gamma Distribution Based Analysis of Diversity Reception in Non-Identically Distributed Composite α - μ / γ Fading Channels**
Hussien Al-Hmood, Thi-Qar University

86955

- 3 Analysis of Two-Step Subspace-Based Channel Estimation Method for OFDM Systems**
Shih-Hao Fang, Jing-Shiun Lin, Industrial Technology Research Institute

10878

- 4 An Efficient Algorithm to Deploy Roadside Units in Vehicular Networks**
João Fernando Sarubbi, Tais Rocha Silva, Flávio Vinicius Cruzeiro Martins, Elizabeth Fialho Wanner, Centro Federal de Educação Tecnológica de Minas Gerais; Cristiano M. Silva, Universidade Federal de São João del-Rei, Brazil

29171

- 5 Angular Resolved Pathloss Measurements in a US Suburban Scenario at 28 GHz**
Christina Larsson, Bengt-Erik Olsson, Martin Johansson, Henrik Asplund, Ericsson Research

18271

- 6 Application of mmWave Radio Channel Models in future 5G Communications Services**
David Steer, Huawei Technologies Canada Ltd.,

75841

- 7 Channel Characterization at 2.53 GHz for Wireless Sensor Networks in Railway Environments**
Inaki Val, Aitor arriola, Cristina Cruces, IK4-Ikerlan; Gerd Sommerkorn, Christian Schneider, Technische Universität Ilmenau

69778

8 Comparison of Propagation Channel Characteristics for Multiple Millimeter Wave Bands

Jie Huang, Rui Feng, Shandong University; Jian Sun, University of Shandong; Cheng-Xiang Wang, Heriot-Watt University; Wensheng Zhang, Shandong University; Yang Yang, Shanghai Research Center for Wireless Communications (WiCO)

42175

9 Directional Analysis of Indoor Massive MIMO Channels at 6 GHz using SAGE

Jianzhi Li, Bo Ai, Ruisi He, Qi Wang, Beijing Jiaotong University; Bei Zhang, University of Beijing Jiaotong; Mi Yang, Ke Guan, Zhangdui Zhong, Beijing Jiaotong University

34134

10 Evaluation of Indoor Radio Deployment Options in High-Rise Building

Huan Cong Nguyen, Aalborg University; Jeroen Wigard, István Z. Kovács, Nokia Bell Labs; Fernando Tavares, Preben E. Mogensen, Aalborg University

75985

11 HOSVD-based Denoising for Improved Channel Prediction of Weak Massive MIMO Channels

Muhammad Bilal Amin, Nokia Networks; Wolfgang Zirwas, Nokia Siemens Networks; Martin Haardt, TU Ilmenau

53681

12 Improve Signals Discrimination for an Indoor Environment Using the Sparse Deconvolution Algorithm

Yi Yang, University of Bristol

97676

13 Influence of Car Body Modeling on the Gain Patterns of Automotive Antennas

Jasmeet Singh, Aidin Asgharzadeh, Technische Universität Ilmenau; Ralf Stephan, TU Ilmenau; Matthias Hein, Technische Universität Ilmenau

59377

14 Interpolative Reconstruction of Millimeter Wave Mobile Channel Responses from Randomly Scattered Snapshots

Chih-Hao Chang, David Lin, National Chiao Tung University

31180

15 Modelling and Analysis of Non-Stationary Multipath Fading Channels with Time-Variant Angles of Arrival

Matthias Pätzold, University of Agder; Carlos A. Gutierrez, Universidad Autonoma de San Luis Potosi

48873

16 On The Effects of Temperature on The Performances of FSO Transmission Under Qatar's Climate

Abir Touati, Abdaoui Abderrazak, Farid Touati, Qatar University; Murat Uysal, Ozyegin University; Ammar Bouallegue, Ecole d'Ingénieurs de Tunis

44479

17 Pathloss measurements and modeling for UAVs connected to cellular networks

Rafhael Amorim, Aalborg University; Jeroen Wigard, István Z. Kovács, Nokia Bell Labs; Preben E. Mogensen, Troels B. Sørensen, Aalborg University

89299

18 Propagation Characteristics Investigation in Measured Massive MIMO Systems at 1.4725GHz

yp_lu, Beijing Jiaotong University

47536

19 Statistical Radio Propagation of Underground Mine: A Performance Study with Different Antennas

Intikhab, Frederick Cawood, Rex van Olst, University of Witwatersrand

93265

20 Three Dimensional Modeling and Space-Time Correlation for UAV Channels

Kun Jin, Xiang Cheng, Peking University; Xiaohu Ge, Huazhong University of Science and Technology; Xuefeng, Tongji University

74869

21 Virtual SIMO Measurement-Based Angular Characterization in High-Speed Railway Scenarios

Tao Zhou, Cheng Tao, Beijing Jiaotong University; Liu Liu, Beijing Jiaotong University, China; Hui Wen, Nan Zhang, Beijing Jiaotong University

3. Cognitive Radio and Spectrum Management Papers

45343

1 A Cognitive Backhaul System For Outdoor Urban Small Cells

Bessie Malila, Neco Ventura, Olabisi E. Falowo, University of Cape Town

99853

2 Automatic Standard Classification Method for the 2.4 GHz ISM Band

Tatsuya Kikuzuki, Fujitsu Laboratories Ltd.; Akihiro Wada, Makoto Hamaminato, Fujitsu Laboratories LTD.; Teruhisa Ninomiya, Fujitsu Laboratories Ltd

57702

3 Cognitive Random Access for Internet-of-Things Networks

Hyesung Kim, Yonsei University; Seung-Woo Ko, The University of Hong Kong; Seong-Lyun Kim, Yonsei University, Korea

25933

4 Design of Contour based Protection Zones for Sublicensing in Spectrum Access Systems

Huiyang Wang, Eryk Dutkiewicz, University of Technology Sydney; Beeshanga Abewardana Jayawickrama, University of Technology, Sydney; Markus Dominik Mueck, Intel Mobile Communications

23249

5 Dual-Level Sensing Based Multiple Access Protocol for Cognitive Radio Networks

Ratan Kumar Mondal, Queensland University of Technology (QUT); Bouchra Senadji, Queensland University of Technology, Brisbane, Australia; Dhammika Jayalath, Queensland University of Technology

44318

6 MAC Protocol for Opportunistic Spectrum Access in Multi-Channel Cognitive Relay Networks

Chu Thi My Chinh, Hans-Jürgen Zepernick, Blekinge Institute of Technology; Hoc Phan, Duy Tan University

79954

7 Performance of CPSC Spectrum Sensing over Fast Frequency-Selective Fading Channels

Guilherme de Souza Lima Moreira, Rausley Adriano Amaral de Souza, Roberto César Dias Vilela Bomfim, National Institute of Telecommunications (Inatel)

48473

8 Radio environment map estimation based on communication cost modeling for heterogeneous networks

Fabiola Frantzis, Vinay Prasad Chowdappa, Universidad de Valencia; Carmen Botella, University of Valencia; J. Javier Samper Zapater, Universitat de València; Rafael Javier Martínez Durá, Universidad de Valencia

34146

9 Secure Channel Selection Using Multi-Armed Bandit Algorithm in Cognitive Radio Network

Masahiro Endo, Tomoaki Ohtsuki, Keio University; Takeo Fujii, University of Electro-Communications; Osamu TAKYU, Shinshu University

91690

10 Spatio-Temporal Opportunistic Spectrum Sharing Between Rotating Radar and Cellular Networks

Sabogu-Sumah Raymond, Alidu Abubakari, Han-Shin Jo, Hanbat National University

37747

11 Spectrum Sharing Optimization in Cellular Networks under Target Performance and Budget Restriction

Md Asaduzzaman, Raouf Abozariba, Mohammed N. Patwary, Staffordshire University

75936

12 Stochastic Geometry Analysis of Spatial Grid-based Spectrum Database

Shota Yamashita, Koji Yamamoto, Takayuki Nishio, Kyoto University; Masahiro Morikura, Graduate School of Informatics, Kyoto-University

19930

13 The impact on Full Duplex D2D Communication of different LTE Transmission Techniques

Noman Haider, University of Technology Sydney, Global Big Data Technologies; Eryk Dutkiewicz, Diep Nguyen, University of Technology Sydney; Markus Dominik Mueck, Intel Mobile Communications; Srikathyayani Srikanteswara, Intel Corporation

16073

14 Traffic Profiles and Licensed Spectrum Sharing in Cellular Networks

Brett Shaw, University of Auckland; Kevin Sowerby, The University of Auckland

52512

15 Two-stage Credit Threshold on Cooperative Spectrum Sensing to Exclude Malicious Users in Mobile Cognitive Radio Networks

Jun Wu, Song Tiecheng, Southeast University; Zhang Lei, Jiangsu University of Technology; Liu Miao, Southeast University

4. Cooperative Communications, Distributed MIMO and Relaying Papers

80433

1 A Joint MMSE Interference Suppression and Multiuser Detection Scheme for Multi-Cell Wireless Relay Communications

Ahmet Ihsan Canbolat, Kazuhiko Fukawa, Tokyo Institute of Technology

83473

2 An Efficient NOMA V2X Communication Scheme in the Internet of Vehicles

Boulos Wadiah Khoueiry, Concordia University; Dr. M. Reza Soleymani, Concordia University

84697

3 An Efficient Time Switching Protocol with Adaptive Power Splitting for Wireless Energy Harvesting Relay Networks

vikash singh, Hideki Ochiai, Yokohama National University

28170

4 A New Hybrid Half-Duplex/Full-Duplex Relaying System with Antenna Diversity

cheng li, Bin Xia, Zhiyong Chen, Shanghai Jiao Tong University

81536

5 An Unsupervised-learning-based Method for Multi-hop Wireless Broadcast Relay Selection in Urban Vehicular Networks

Weinan Song, Xinyu Mao, Peking University

87531

6 A Raptor-coded Distributed Noncoherent Scheme Using Non-orthogonal Space-time Modulation

Yen-Ming Chen, National Sun Yat-sen University; Wei-Min Lai, Yeong-Luh Ueng, National Tsing Hua University

71778

7 ASER Analysis of Rectangular QAM with SC Receiver in OFDM-Based Nonlinear AF Relay Network Over Nakagami-m Fading

Nagendra Kumar, Indian Institute of Technology Indore; Praveen Kumar Singya, Indian Institute of Technology Indore, India; Vimal Bhatia, Indian Institute of Technology Indore

45180

8 Cooperate Caching with Multicast for Mobile Edge Computing in 5G Networks

Xiangyue Huang, Zhejiang University; Zhifeng Zhao, Zhejiang University; Honggang Zhang, Zhejiang University

90156

9 Dynamic Pilot Reuse in Distributed Massive MIMO Systems

Ramiz Raouf, University of Kent; Cunhua Pan, Southeast University; H. Zhu, Jiangzhou Wang, University of Kent

13226

10 Full-Duplex Decode-and-Forward Relaying: Secrecy Rates and Optimal Power Allocation

Lubna Elsaid, Mohammad Ranjbar, Nathaniel Raymondi, University of Akron; Duy Nguyen, San Diego State University; Nghi Tran, Abdelrhman A Mahamadi, University of Akron

32384

11 Generalized Buffer-State-Based Relay Selection for Fixed-Rate Buffer-Aided Cooperative Systems

Ryota Nakai, Miharui Oiwa, Shinya Sugiura, Tokyo University of Agriculture and Technology

63248

12 Implementation of Coordinated MIMO-OFDM with Independent Local Oscillators

Hajime Suzuki, Joseph Pathikulangara, CSIRO

17424

13 On Partial Interference Cancellation with Partial Interference Forwarding

Rajendra Prasad Sirigina, NTU, Singapore; A.S. Madhukumar, Nanyang Technological University

95101

14 Optimal Pilot Symbols Ratio in terms of Spectrum and Energy Efficiency in Uplink CoMP Networks

YuHao Zhang, Cui Qimei, Wang Ning, Beijing University of Posts and Telecommunications

42007

15 Outage Probability Analysis of Shared UE-side Distributed Antenna System based Cooperative AF Relaying Network for 5G Systems

Praveen Kumar Singya, Indian Institute of Technology Indore, India; Nagendra Kumar, Vimal Bhatia, Indian Institute of Technology Indore; Faheem A. Khan, University of Huddersfield, Huddersfield, UK

73486

16 Performance Analysis of Hybrid-ARQ over Full-Duplex Relaying Network Subject to Loop Interference under Nakagami-m Fading Channels

YUN AI, Michael Cheffena, Norwegian University of Science and Technology

89690

17 Self-Interference Cancellation of Full-Duplex Massive MIMO Relay Systems over Rician Fading Channels

Siyuan Wang, State Key Laboratory of Integrated Service Network, Xidian University; Yi Liu, Hailin Zhang, Xidian University

57903

18 Software Defined Coded Networking: Benefits of the PlayNCool protocol in wireless mesh networks

Carla Di Paola, University of Catania; Daniel Lucani, Aalborg University; Sergio Palazzo, University of Catania; Jeppe Krigslund, Aalborg University

42035

19 Subspace Based Interference Cancellation in Cooperative Multicell Transmission

Swagato Barman Roy, A.S. Madhukumar, Nanyang Technological University; Francois Chin, Institute for Infocomm Research (I2R)

32855

20 Unified Design of LLR Quantization and Joint Reception for Mobile Fronthaul Bandwidth Reduction

Kenji Miyamoto, NTT Corporation; Shinsuke Ibi, Osaka University; Tatsuya Shimizu, Jun Terada, Akihiro Otaka, NTT Corporation; Seiichi Sampei, Osaka University

87309

21 Virtual Clustering for Distributed Consensus-based Estimation in Cooperative Networks

Guang Xu, Shengdi Wang, Henning Paul, Armin Dekorsy, University of Bremen

5. Electric Vehicles, Vehicular Electronics, and Intelligent Transportation Papers

86457

1 3D Scene Understanding at Urban Intersection using Stereo Vision and Digital Map

Prarthana Bhattacharyya, Yanlei Gu, Jiali Bao, Shunsuke Kamijo, Xu Liu, University of Tokyo

67346

2 A Comparative Fuel Analysis of a novel HEV with conventional vehicle

Mohamed Awadallah, Peter Tawadros, Paul Walker, Nong Zhang, James Tawadros, University of Technology Sydney

92473

3 A Modified Waveform Design for Radar-Communication Integration Based on LFM-CPM

Yu Zhang, Qingyu Li, Ling Huang, Changyong Pan, Jian Song, Tsinghua University

56619

4 A Simulation Study of Emergency Vehicle Prioritization in Intelligent Transportation Systems

Hairuo Xie, Shanika Karunasekera, Lars Kulik, Egemen Tanin, Rui Zhang, Kotagiri Ramamohanarao, University of Melbourne

36954

5 Decision Frameworks for using Uncertain Predictions for Cut-In Detections in (Semi-) Automated Driving

Wolfgang Muenst, objective GmbH; Tobias Rehder, BMW AG; Fabian Boegner, Technical University Munich; Lawrence Louis, BMW AG; Christian Icking, FernUniversitaet Hagen

72702

6 Efficient Range-Doppler Processing for Random Stepped Frequency Radar in Automotive Applications

Akram Al-Hourani, RMIT University; Rob Evans, The University of Melbourne; Bill Moran, Kandeepan Sithampanathan, RMIT University

96486

7 Evaluation of the Potential of Integrating Battery Electric Vehicles into Commercial Companies on the Basis of Fleet Test Data

Johannes Betz, Moritz Hann, Benedikt Jäger, Lienkamp Markus, Technical University of Munich

75536

8 Mitigating Range Anxiety via Vehicle-to-Vehicle Social Charging System

Eyuphan Bulut, Virginia Commonwealth University; Mithat Kisacikoglu, University of Alabama

61312

9 Mobility Analysis of Electric Autonomous Vehicle Networks Driven by Energy-efficient Rerouting

George Bucsan, Toyota Research Institute of North America; Alex Goupilleau, Pierre Frene, Manish Pokhrel, Michael Balchanos, Dimitri Mavris, Georgia Institute of Technology; Masanori Ishigaki, Atsushi Iwai, Jae Seung Lee, Toyota Research Institute of North America

33840

10 Operating Strategy of an Active Battery Switching System in Electric Vehicles

Philip Wacker, Technical University of Munich

52089

11 SpeCX(A): Spectrum Sharing Solution for Automotive Radar

Kumar Vijay Mishra, Deborah Cohen, Yonina C. Eldar, Technion - Israel Institute of Technology

82345

12 Test Methodology for Fog Influence on Automotive Surround Sensors

Hasirlioglu Sinan, Igor Doric, Alexander Kamann, Andreas Riener, Thomas Brandmeier, Technische Hochschule Ingolstadt

87088

13 Vehicle Classification and Identification Using Multi-Modal Sensing and Signal Learning

Ryan Kerekes, Thomas P. Karnowski, Mike Kuhn, Michael R. Moore, Oak Ridge National Laboratory; Brad, Stinson; Ryan Tokola, Oak Ridge National Laboratory; Adam Anderson, Tennessee Tech University; J. Michael Vann, Oak Ridge National Laboratory

74728

14 Waveform Parameter Selection for ITS Positioning

Michael Walter, Armin Dammann, German Aerospace Center (DLR); Thomas Jost, Ronald Raulefs, German Aerospace Center; Siwei Zhang, DLR

6. Green Communications and Networks Papers

- 64877
1 A Traffic Differentiated Hybrid Wireless Mesh Protocol for Smart Grid Neighbourhood Area Networks
Huamiao Hu, Angela Doufexi, Simon Armour, Dritan Kaleshi, University of Bristol
- 89082
2 Energy Efficiency Evaluation of Uplink Transmissions with Maximum Power Constraint
Jing Zhang, Yajie Diao, Yanxia Zhang, Huazhong University of Science and Technology
- 78731
3 Energy Efficiency of Wireless Information and Power Transfer with Massive MIMO
Talha Ahmed Khan, The University of Texas at Austin; Ali Yazdan, Facebook; Yael Maguire, Connectivity Lab, Facebook; Robert Heath, The University of Texas at Austin
- 51544
4 Energy Efficiency Optimization for Spatial Switching-based MIMO SWIPT System
Jie Tang, South China University of Technology; Daniel K C So, University of Manchester; Arman Shojaeifard, Kai-Kit Wong, University College London
- 82486
5 Energy Efficient Device to Device Communication by Resource Efficiency Optimization
Fakrulradzi Idris, University of Manchester; Jie Tang, South China University of Technology; Daniel K C So, University of Manchester
- 92861
6 Energy Efficient Resource Allocation for MIMO SWIPT Broadcast Channels
Jie Tang, South China University of Technology; Daniel K C So, University of Manchester; Arman Shojaeifard, Kai-Kit Wong, University College London
- 46379
7 HELIOS: Outsourcing of security operations in Green Wireless Sensor Networks
Giuseppe Ateniese, Stevens Institute of Technology; Giuseppe Bianchi, Università Tor Vergata; Angelo T. Caposelle, Sapienza University; Chiara Petrioli, Rome University La Sapienza; Dora Spenza, Sapienza University of Rome
- 23767
8 On Designing Energy Efficient Wi-Fi P2P Connections for Internet of Things
Chih-Chiang Liao, Shin-Ming Cheng, National Taiwan University of Science and Technology; Menachem Domb, Ashkelon Academy
- 95200
9 Optimal Resource Allocation and Relay Selection for Self-Sustainable Relaying Networks
M.Prudhvi deep, International institute of information Technology (IIIT), Hyderabad; Shubham Jain, P. Ubaidulla, International Institute of Information Technology (IIIT), Hyderabad
- 51804
10 Power Efficient OFDM-mmWave Communications with Low Resolution and Subsampling ADC
Rakesh R T, Rupesh Ranjan, Shyla Gangwar, Debarati Sen, Indian Institute of Technology Kharagpur; G Das, IIT Kharagpur
- 13017
11 QoS-Constrained Transmission Policy in Hybrid Energy Supply Wireless Communication System
Jinsen XIE, Weizhe CAI, Licong DENG, Jian Yang, University of Science and Technology of China
- 35546
12 Relay Selection and Transceiver Design for Joint Wireless Information and Energy Transfer in Cooperative Networks
Sumit Gautam, International Institute of Information Technology-Hyderabad; P. Ubaidulla, International Institute of Information Technology (IIIT), Hyderabad
- 91287
13 Self-Sustainable Robotic Environment Discovery for Energy Harvesting Internet of Things
Yen-Kai Cheng, Ronald Y. Chang, Academia Sinica
- 77513
14 Thermal-Aware Dynamic Computing Resource Allocation for BBU Pool in Centralized Radio Access Networks
Sumarga Kumar Sah Tyagi, Lin Tian, Yiqing Zhou, Institute of Computing Technology, Chinese Academy of Sciences
- 59716
15 User Association for Energy Balancing in HetNets with Hybrid Energy Sources
Tiankui Zhang, Hongzhang Xu, Beijing University of Posts and Telecommunications; Yue Chen, Queen Mary University of London

7. Mobile Network Applications and Services Papers

- 44881
1 Analysis of the delay of confirmed downlink frames in Class B of LoRaWAN
François Delobel, Université d'Auvergne; Nancy El Rachkidy, Université Blaise Pascal; Alexandre Guitton, Clermont Université, Université Blaise Pascal / LIMOS
- 45386
2 GoSense: Efficient Vehicle Selection for User Defined Vehicular Crowdsensing
Tzu-Yang Yu, Xiru Zhu, Hongji Chen, McGill University
- 17441
3 Looxy: Web Access Optimization for Mobile Applications with a Local Proxy
Yao Guo, Mengxin Liu, Xiangqun Chen, Peking University
- 64926
4 MTV: Mobile BitTorrent Video Sharing Using Harmonized LTE and WiFi Coexistence
Yang Yang, Xiaoyi Zhang, ZHANG Lin, Beijing University of Posts and Telecommunications
- 94041
5 Outage performance analysis of Content Delivery in Multiple Devices to Single Device Communications
Asaad Daghfal, H. Zhu, University of Kent; Dr. Qasim Ahmed, University of Huddersfield; Yijun Pan, University of Kent
- 57661
6 Robust QoS-aware Multi-Service Transmission with Hierarchical Modulation in High-Speed Railway
Qian Gao, Gang Zhu, Siyu Lin, Xiaofang Sun, Shichao Li, Xiong Lei, Beijing Jiaotong University

59801

7 Senz: A Context Awareness Middleware System Used in Mobile Devices

Hengyang Zhang, Beijing University of Posts and Telecommunications; Guan Gui, The University of Melbourne; Shixiang Zhu, Georgia Institute of Technology; Tao HUANG, Beijing University of Posts and Telecommunications; Yuanying Chi, Beijing University of Technology; Yunjie Liu, Beijing University of Posts and Telecommunications

77729

8 VehSense: Slippery Road Detection Using Smartphones

Yunfei Hou, California State University, San Bernardino; Abhishek Gupta, Tong Guan, University at Buffalo; Shaohan Hu, IBM Research; Lu Su, University at Buffalo; Chunming Qiao, SUNY at Buffalo

8. Multiple Antenna Systems and Services Papers

63942

1 A Group-Blind Detection Scheme for Uplink Multi-Cell Massive MIMO

Guido Carlo Ferrante, Massachusetts Institute of Technology; Giovanni Geraci, Bell Labs Nokia; Tony Q.S. Quek, Singapore University of Technology and Design

17694

2 A Low-complexity Soft-Decision-aided Detector for Differential Spatial Modulation

Jiang Liu, Lixia Xiao, Yue Xiao, Ping Yang, Lilin Dan, Bin Fu, University of Electronic Science and Technology of China

16778

3 An Evaluation of Channel Models, Frequency Bands and Antenna Topologies for 5G

Callum Neil, Victoria University of Wellington; Mansoor Shafi, Spark, New Zealand; Peter Smith, Pawel A. Dmochowski, Victoria University of Wellington; Zhang Jianhua, Beijing University of Posts and Telecommunications

95809

4 An Extension of Tomlinson-Harashima Precoding for Downlink Multi-User MIMO Systems

Sourabh Maiti, Manabu Mikami, Softbank Corp.; Kenji Hoshino, SOFTBANK Corp.

63959

5 A Sub 6GHz Massive MIMO System for 5G New Radio

Hongjie Hu, Huawei Technologies; Gao Hui, Huawei; Zhongfeng Li, Huawei Technologies Co., Ltd.; Youtuan Zhu, Huawei Technologies

13783

6 Combined Order QRD with PIC based Signal Detection Method for High Mobility STBC System

JYOTI PRASANNA PATRA, POONAM SINGH, NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA

27435

7 Efficient Signaling Schemes for mmWave LOS MIMO Communication Using Uniform Linear and Circular Arrays

G. D. Surabhi, A. Chockalingam, Indian Institute of Science, Bangalore

10114

8 Energy Efficiency Optimizations of Massive MIMO Systems with Linear Receivers

Guan Xue, Lihua Li, Beijing University of Posts and Telecommunications; Guangyuan Lu, BUPT; Tian Hui, Liutong Du, Beijing University of Posts and Telecommunications

50953

9 Frequency-domain detection without matrix inversions for mm-wave communications with correlated massive MIMO channels

Pedro Bento, Andreia Pereira, Instituto de Telecomunicações - University of Coimbra; Rui Dinis, Universidade Nova de Lisboa; Marco Gomes, Vitor Silva, Instituto de Telecomunicações - University of Coimbra

32970

10 Hybrid Beamforming for Large Scale Array Antenna in Wireless Ultra-wide Area Backhaul Network

SeongWon Go, Korea Advanced Institute of Science and Technology

83348

11 Low-Cost Superimposed Pilots Based Receiver for Massive MIMO in Multicarrier System

Yejian Chen, Bell Labs, Nokia

21773

12 MSE-based Precoder Designs for Receive Quadrature Spatial Modulation Systems

Chiao-En Chen, Ting-Wei Kuo, National Chung Cheng University

11196

13 Nonlinear Equalizer for Multi-User Hybrid mmW Massive MIMO Systems

Roberto Magueta, DETI/Instituto de Telecomunicações/University of Aveiro; Daniel Castanheira, University of Aveiro; Adão Silva, DETI/ Instituto de Telecomunicações / University of Aveiro; Rui Dinis, Universidade Nova de Lisboa; Atilio Gameiro, Instituto de Telecomunicações

98081

14 On Beam Aggregation in Millimeter-Wave System

Yushu Zhang, Intel Mobile Communication Beijing Ltd; Yuan Y Zhu, Intel; Gang Xiong, Intel Cooperation

97790

15 On-off Analog Beamforming with Per-Antenna Power Constraint

Shengli Zhang, Chongtao Guo, Taotao Wang, Shenzhen University; Wei Zhang, UNSW

44540

16 On the Feasibility of OFDM-Based Massive MIMO Systems with Low Resolution Quantizers

João Guerreiro, Instituto de Telecomunicações, Universidade Nova de Lisboa; Rui Dinis, Universidade Nova de Lisboa; Paulo Carvalho, FCT- Universidade Nova de Lisboa

90995

17 On the Performance of TDD Massive MIMO Systems with Pilot Contamination

Makram Alkhaled, Emad Alsusa, Daniel K C So, University of Manchester

70953

18 Pilot Design for Phase Noise Mitigation in Millimeter Wave MIMO-OFDM Systems

Yong-Ping Zhang, Research Department of Hisilicon, Huawei Technologies; Liu Jinnan, Shulan Feng, Hisilicon Technologies, Huawei; Philipp Zhang, Huawei Technologies Co., Ltd.

49862

19 Sum-Rate of Block-wise SC Massive MIMO Systems in the Presence of Carrier Frequency Offset

Zahra Mokhtari, Maryam Sabbaghian, University of Tehran; Rui Dinis, Universidade Nova de Lisboa

45955

20 SVD-Based Signal Alignment for MU-MIMO Two-Way Relay Networks

Keshav Singh, School of Engineering, University of Edinburgh; Meng-Lin Ku, National Central University; Chih-Cheng Wang, National Central University, Taiwan

23895

21 The Spatial Evolution of Clusters in Massive MIMO Mobile Measurement at 3.5 GHz

Chao Wang, Zhang Jianhua, Beijing University of Posts and Telecommunications; Tian Lei, Beijing University of Posts and Telecommunications; Mengmeng Liu, Beijing University of Posts and Telecommunications; Ye Wu, Huawei Technologies, Co. Ltd.

63645

22 Two-Stage 3D Codebook Design and Beam Training for Millimeter-Wave Massive MIMO Systems

Wei Wu, Beijing University of Posts and Telecommunications, P.R. China; Danpu Liu, Beijing Univ. Posts and Telecommunications; Zhaoqiang Li, Beijing University of Posts and Telecommunications, P.R. China; Xiaolin Hou, DOCOMO Beijing Communications Laboratories Co., Ltd; Min Liu, DOCOMO Beijing Communications Laboratories Co., Ltd.

9. Positioning Technologies, Localization and Navigation, and Satellite Networks Papers

71494

1 A Comparative Study of Machine-Learning Indoor Localization Using FM and DVB-T Signals in Real Testbed Environments

Yen-Kai Cheng, Ronald Y. Chang, Ling-Jyh Chen, Academia Sinica

29333

2 A Fast C-GIST Based Image Retrieval Method for Vision-based Indoor Localization

Lin Ma, Hao Xue, Tong Jia, Harbin Institute of Technology; XueZhi Tan, Harbin Institute of Technology, China

74165

3 A Practical Indoor Localization Scheme for Disaster Relief

Hyo Won Lee, Wha Sook Jeon, Seoul National University; Dong Geun Jeong, Hankuk University of Foreign Studies

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4 A Vehicle Positioning Method Based on Joint TOA and DOA Estimation with V2R Communications

Rui Zhang, Feng YAN, Lianfeng Shen, Southeast University; Yi Wu, Fujian Normal University

75300

5 Call Admission Control for Weather-Impacted Multimedia Satellite Networks

Olugbenga Imole, University of KwaZulu-Natal, Durban South Africa; Tom Walingo, University of KwaZulu-Natal, Durban, South Africa

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6 Combined Wi-Fi and Inertial Navigation with Smart Phones in Out- and Indoor Environments

Hannes Hofer, TU Wien; Guenther Retscher, Vienna University of Technology

93521

7 For better CSI Fingerprinting based Localization: a novel phase sanitization method and a distance metric

Weipeng Jiang, Huawei Technologies CO., LTD

86917

8 FreeNavi: Landmark-based Mapless Indoor Navigation based on WiFi Fingerprints

Yao Guo, Wenjun Wang, Xiangqun Chen, Peking University

13897

9 Hypothesis Testing Based Model for Fingerprinting Localization Algorithms

Arash Behboodi, RWTH Aachen University; Filip Lemic, Technische Universität Berlin; Adam Wolisz, Technical University of Berlin, Germany

15560

10 Increasing Bandwidth Efficiency in Multi-Beam Satellite Systems under Interference Limited Condition using Overlay Coding

Nazli Ahmad Khan Beigi, Concordia University; Dr. M. Reza Soleymani, Concordia University

28974

11 Indoor Floor Map Crowdsourcing Building Method Based on Inertial Measurement Unit Data

Lin Ma, Leqi Tang, Yubin Xu, Yang Cui, Harbin Institute of Technology

32156

12 Joint Navigation and Synchronization in LEO Dual-Satellite Geolocation Systems

Junhui Zhao, Lei Li, Beijing Jiaotong University; Yi Gong, South University of Science and Technology of China

85435

13 LED-Assisted Three-Dimensional Indoor Positioning for Multiphotodiode Device Interfered by Multipath Reflections

Jindan Xu, Hong Shen, Southeast University; Wei Xu, Southeast University, Nanjing; Hua Zhang, Xiaohu You, Southeast University

27848

14 Miller-Coded Asynchronous Visible Light Positioning System for Smart Phones

Zhengpeng Li, Ming Jiang, Sun Yat-sen University; Xiaona Zhang, SYSU-CMU Shunde International Joint Research Institute (JRI); Xianyu Chen, Sun Yat-sen University; Weikun Hou, Huawei Technologies Canada Research and Development Centre

93869

15 Test Methodology for Automotive Surround Sensors in Dynamic Driving Situations

Alexander Kamann, Hasirlioglu Sinan, Igor Doric, Technische Hochschule Ingolstadt; Thomas Speth, Technische Hochschule Ingolstadt, CARISSMA; Thomas Brandmeier, Technische Hochschule Ingolstadt; Ulrich Schwarz, Technische Universität Chemnitz

10. Transmission Technologies and Communication Theory Papers

38525

1 A Code-aided and Moment-based Joint SNR Estimation for M-APSK over AWGN Channels

He Rui, Dewei Yang, Beijing Institute of Technology

27716

2 Adaptive Channel Estimation Based on a Decision Method Using a Long Preamble for the IEEE 802.11p

Joo-Young Choi, Yonsei University; Cheol Mun, Korea National University of Transportation; Jong-Gwan Yook, Yonsei University

17065

3 Adaptive Hybrid ARQ (A-HARQ) for Ultra-Reliable Communication in 5G

Emerson Cabrera, Macquarie University; Gengfa Fang, University of Technology Sydney; Rein Vesilo, Macquarie University

51154

4 A Joint Detector for QAM Filter-Bank Multicarrier Systems

Fan Yang, Fujitsu Research and Development Center Co., Ltd; Xin Wang, Fujitsu R&D Center Co., Ltd

87080

5 Analysis of Energy Detection of Unknown Signals under Beckmann Fading Channels

Juan P. Peña-Martín, Juan Manuel Romero, University of Malaga; F. Javier Lopez-Martinez, Universidad de Malaga

23798

6 Analysis of the Joint Viterbi Detector/Decoder over a coded ISI/AWGN channel

Kheong Sann Chan, Data Storage Institute (DSI)

14200

7 Analytical Modeling of Distributed Location Based Access for Vehicular Ad Hoc Networks

Francisco J. Martín-Vega, University of Málaga; Beatriz Soret, Nokia Bell Labs; M. Carmen Aguayo-Torres, Universidad de Malaga; Gerardo Gomez, University of Malaga; István Z. Kovács, Nokia Bell Labs

32765

8 An Area-efficient Multi-Mode LLR Computing Engine for MMSE-based MIMO Detectors

Wei-Cheng Sun, National Tsing Hua University; Chia-Hsiang Yang, National Taiwan University; Yen-Ming Chen, National Sun Yat-sen University; Yeong-Luh Ueng, National Tsing Hua University

27012

9 An efficient wireless fronthaul (EWF) method for LTE signal transmission

Meng Cai, Qiao Liu, Hongli Jiang, Ping Cao, Cheng Hong, Jiangying Wei, Huawei technologies co. ltd.

14961

10 Application of WFRFT in Impulsive Noise Channels of Substation Communications

Xiaolu Wang, Harbin Institute of Technology / McGill university; Lin Mei, HIT; Fabrice Labeau, McGill University

39537

11 A Random Non-Orthogonal Multiple Access Scheme for mMTC

Ye Neng, Wang Aihua, Beijing Institute of Technology; Xiangming Li, Beijing institute of technology; Yu Hanxiao, Beijing Institute of Technology; Anxin Li, Jiang Huiling, DOCOMO Beijing Communications Laboratories Co., Ltd

96579

12 A Rate-Compatible Low-Density Parity-Check Convolutional Coding Scheme Using Informed Dynamic Scheduling

Huang-Chang Lee, Dept. of Electrical Engineering, Chang Gung University, Taiwan.; Yung-Hsiang Su, Dept. of EE, National Tsing Hua University, Taiwan.; Yeong-Luh Ueng, National Tsing Hua University

16263

13 A Simple Modified Peak Detection Based UWB Receiver for WSN and IoT Applications

SANJEEV SHARMA, IIT INDORE, INDIA; Anubha Gupta, Indraprastha Institute of Information Technology-Delhi; Vimal Bhatia, Indian Institute of Technology Indore

52076

14 A Tomography of Full-Duplex Cellular Networks

Rongpeng Li, Zhejiang University; Wei Quan, Huawei Technoloigoies Co., Ltd; Yan Chen, Yiqun Wu, Huawei

22040

15 Channel Estimation Using Low-Resolution PSs for Wideband mmWave Systems

Yue Dong, Chen Chen, Na Yi, Guocheng Lu, Ye Jin, Peking University

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16 Design and Implementation of OFDM Receiver in Broadband Satellite Communication System

Yunsi Ma, Chaoxing Yan, Sanwen Zhou, Lingang Fu, Beijing Research Institute of Telemetry

85025

17 Design of Raptor Codes for Small Message Length

Lei Yuan, Jie Pan, Lanzhou University

63152

18 Efficient Ordering Calculation Method Using Frequency Correlation for MU-MIMO-OFDM THP

Nobuhiro Hiruma, Tomoki Maruko, Waseda University; Hiromichi Tomeba, Takashi Onodera, Sharp Corporation; Fumiaki Maehara, Waseda University

41044

19 Enhancing Physical Layer Security through the Use of Suprathreshold Stochastic Resonance and Jamming

Chen Tian, Pinyi Ren, Xi'an Jiaotong University

14657

20 Evaluation of 5G Waveform Candidates Considering Hardware Impairments and Above 6 GHz Operation

Hua Wang, Keysight Technologies; Ali Zaidi, Ericsson Research; Xiaoming Chen, Qamcom Research & Technology AB; Jian Luo, Huawei Technologies Duesseldorf GmbH; Michael Dieudonne, keysight

88745

21 Fractional Pilot Reuse with Vertical Sectorization in Massive MIMO Systems

Jiancun Fan, Weiqi Li, Xi'an Jiaotong University; Ying Zhang, Xi'an Jiaotong University; Jianguo Deng, Xi'an Jiaotong University

86226

22 Generalized OFDM for the 5th Generation Mobile Communications

myungsup kim, Tunitel Co.; Do Young Kwak, KAIST

63701

23 Hybrid Digital-to-Analog Beamforming Approaches to Maximise the Capacity of mm-Wave Systems

Osama Alluhaibi, University of Kent; Dr. Qasim Ahmed, University of Huddersfield; Cunhua Pan, H. Zhu, University of Kent

24094

24 Hybrid Source-Channel Coding with Bandwidth Expansion for Speech Data

Minh-Quang NGUYEN, Telecom-Sud Paris; Hang Nguyen, Institut Mines-Telecom, Telecom SudParis; Eric Renault, Institut Mines-telecom; Yusheng Ji, National Institute of Informatics

40778

25 Interference Analysis of Ambient Backscatter on Existing Wireless Communication Systems

ChenChen, Gongpu Wang, Beijing Jiaotong University; Yanwen Wang, ZTE Corporation; Quan Miao, National Computer Network Emergency Response Technical Team

51532

26 Interference Fusion Multi-Access: A Novel Multiple User Superposition Transmission Scheme for Cellular Networks

Xuesong Wang, Yong-Ping Zhang, Research Department of Hisilicon, Huawei Technologies; Wu Yu-chun, Shulan Feng, Philipp Zhang, Hisilicon Technologies, Huawei

27565

27 Interleaver-based Pattern Division Multiple Access with Iterative Decoding and Detection

Jie Zeng, Tsinghua University; Bei Liu, Chongqing University of Post and Communications; Xin Su, Tsinghua University

35311

28 Internal Collusive Eavesdropping of Interference Alignment Networks

Nan Zhao, Dalian University of Technology; F. Richard Yu, Carleton University; Yunfei Chen, University of Warwick; Bingcai Chen, Dalian University of Technology; Victor C. M. Leung, The University of British Columbia

77550

29 Joint Beamforming and DC Bias Optimization in VLC with Dimming Control

Sike Yao, Xiaoyu Zhang, ShanghaiTech University

97556

30 Joint Detector Demodulator Decoder (JDDD) over ISI Channels

Ashish James, Data Storage Institute (DSI), A*STAR; Kheong Sann Chan, Data Storage Institute (DSI)

96894

31 Joint Phase Noise Estimation and Iterative Detection of Faster-than-Nyquist Signaling based on Factor Graph

Qi Xiaotong, Nan Wu, Lei Zhou, Dewei Yang, Hua Wang, Beijing Institute of Technology

68442

32 Layer-aware Interference Mitigation Scheme for Downlink Multi-User SCMA System

Xinmin Li, Ling Qiu, Xiaowen Liang, University of Science and Technology of China

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33 Location-aided Superimposed Pilot-based Channel Estimation for Sparse HAP Channels

Syed Junaid Nawaz, Ph.D., COMSATS Institute of Information Technology, Islamabad.; Babar Mansoor, COMSATS Institute of Information Technology, Islamabad; Shree K. Sharma, University of Western Ontario, Canada; Sardar M. Gulfam, COMSATS Institute of Information Technology, Islamabad; Mohammed N. Patwary, Staffordshire University

57137

34 Low Complexity Hybrid Digital-to-Analog Beamforming for Millimeter-Wave Systems with High User Density

Manish Nair, The University of Kent; Dr. Qasim Ahmed, University of Huddersfield; Junyuan Wang, H. Zhu, University of Kent

73222

35 Measurement-Based Characterizations of On-body Channel in the Human Walking Scenario

Hongyun Zhang, F. Safaei, Le Chung Tran, University of Wollongong

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36 Minimal Noise Variance Decoder for Uncoordinated Multiple Access in VLC

Abdullah, Siu-Wai Ho, University of South Australia; Jean-Marie Gorce, INSA Lyon; Chung Shue Chen, Bell Labs, Nokia

44707

37 Misalignment-Robust Receiving Scheme for UCA-Based OAM Communication Systems

Hui Xu, Rui Chen, Xidian University; Jiandong Li, State Key Lab of Integrated Service Networks?Xidian University; Yan Zhang, Xidian University

36909

38 Online Bayesian Learning for Remote-Sensing Imagery Compression

Zizhuo Zhang, Shaoyang Li, Tsinghua University; Tao Xiaoming, Tsinghua university; Linhao Dong, Jianhua Lu, Tsinghua University

58719

39 On Mitigation of Active Eavesdropping Attack by Spoofing Relay

Jitendra K Tugnait, Auburn University

66671

40 On the Emerging of Scaling Law , Fractality and Small-World in Cellular Networks

Chao Yuan, Zhejiang University; Zhifeng Zhao, Zhejiang University; Rongpeng Li, Meng Li, Honggang Zhang, Zhejiang University

42749

41 On the Influence of Doubly-Selectivity in Pilot-Aided Channel Estimation for FBMC-OQAM

Ronald Nissel, Vienna University of Technology; Erich Zöchmann, TU Wien; Markus Rupp, Vienna University of Technology

34138

42 Opportunistic radar in IEEE 802.11ad vehicular networks

Emanuele Grossi, University of Cassino; Marco Lops, Università di Cassino; Luca Venturino, Università degli Studi di Cassino; Alessio Zappone, University of Cassino and Southern Lazio

47309

43 Outage Constrained Robust Energy Efficiency Optimization for MISO Wiretap Channels

Weidong Mei, Zhi Chen, University of Electronic Science and Technology of China; Jun Fang, National Key Lab. of Sci. and Tech. on Communications, UESTC, China

19655

44 Outage Probability of Multihop Relaying with Cochannel Interferences over α - μ Fading Channels

Xiaoyu Chen, Jiayi Zhang, Yanan Liang, Li Xu, Ying Liu, Beijing Jiaotong University

44135

45 Pattern Division Multiple Access with Large-scale Antenna Array

Peng Li, Yanxiang Jiang, Southeast University; Shaoli Kang, China Academy of Telecommunications Technology; Fuchun Zheng, The University of Reading; Xiaohu You, Southeast University

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46 Performance Analysis of ACO-OFDM and DCO-OFDM using Bit and Power Loading in Frequency Selective Optical Wireless Channels

Mohammed Mansoor Ahmed Mohammed, Cuiwei He, Jean Armstrong, Monash University

97794

47 Performance Analysis of Multi-hop Heterodyne FSO Systems over Malaga Turbulent Channels with Pointing Error Using Mixture Gamma Distribution

Wael G. Alheadary, King Abdullah University of Science and Technology; Ki-Hong Park, Mohamed-Slim Alouini, KAUST

50246

48 Performance Analysis of Physical Layer Security Over Rician/Nakagami- m Fading Channels

Shunya Iwata, Tomoaki Ohtsuki, Keio University; Pooi-Yuen Kam, National University of Singapore

99303

49 Performance Analysis of PLC over Fading Channels with Colored Nakagami- m Background Noise

YUN AI, Norwegian University of Science and Technology; Tomoaki Ohtsuki, keio university; Michael Cheffena, Norwegian University of Science and Technology

37270

50 Performance and Complexity Analysis of Spatially Coupled Data Transmission Based on Power Allocation

Zhengxuan Liu, Beijing University Posts and Telecommunications; Guixia Kang, Ningbo Zhang, Zhongwei Si, Beijing University of Posts and Telecommunications

54465

51 Performance of Optically Pre-amplified FSO System under Gamma-Gamma Turbulence with Pointing Errors and ASE Noise

Aashish Mathur, Prakriti Saxena, Indian Institute of Technology Delhi; Manav R Bhatnagar, IIT Delhi

37993

52 Phase Noise Self-Cancellation Scheme with Orthogonal Polarization in the Polarization Dependent Loss Channel for OFDM system

Yao Nie, Chunyan Feng, Fangfang Liu, Beijing University of Posts and Telecommunications; Caili Guo, Degree of Polarization Spectrum Sensing Algorithm for Cognitive Radio; Wen Zhao, Beijing University of Posts and Telecommunications

45259

53 Prior-Information-Based Remote Sensing Image Compression with Bayesian Dictionary Learning

Tao Xiaoming, Tsinghua university; Shaoyang Li, Zizhuo Zhang, Liu Xijia, Juan Wang, Jianhua Lu, Tsinghua University

59292

54 Profile-based Power Allocation in OFDM with Index Modulation

Xiaobo Liu, University of Electronic Science and Technology of China

81897

55 SCMA Hardware On-board Transceiver with Max-Log-MPA

Shaoran Li, Beijing University of Posts and Telecommunications

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56 Successive Interference Cancellation of ICA Based SDMA Differential Detector for BLE Systems

Masahiro Takigawa, Shinsuke Ibi, Seiichi Sampei, Osaka University

60381

57 The Potential of Using Large Antenna Arrays on Intelligent Surfaces

Sha Hu, Fredrik Rusek, Ove Edfors, Lund University

13383

58 Time-indexed Media-based Modulation

Bharath Shamasundar, Swaroop Jacob, A. Chockalingam, Indian Institute of Science, Bangalore

21270

59 Unified Performance Analysis of Mixed η - μ and M-Distribution Dual-Hop RF/FSO Systems

Liang Yang, Jun Zhang, Guangdong University of Technology

82772

60 Unique Word DFT-spread-OFDM for fast time-varying channels

Gilberto Berardinelli, Aalborg University; Klaus I. Pedersen, Frank Frederiksen, Nokia - Bell Labs; Troels B. Sørensen, Aalborg University; Preben E. Mogensen, Nokia - Bell Labs

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61 Vehicle Proximity Awareness by Inter-Vehicle Communication for Surface Mine Operation Safety

Yusuke Nishimura, Osaka University; Tatsuaki Osafune, Hitachi, Ltd.; Seiya Kato, Research & Development Group Hitachi, Ltd.; Akihito Hiromori, Hirozumi Yamaguchi, Teruo Higashino, Osaka University

72542

62 Wavelet-Time Diversity Transmission in Wireless Systems: Bit-Error Probability

Luiz Gonzaga de Q. Silveira Junior, Universidade Federal do Rio Grande do Norte; Rui Dinis, IT Porugal

11. Vehicular Communication Networks and Telematics Papers

68166

1 Analysis of Downlink Connectivity Probability within Two-Hop Coverage of RSU in VANET

Zhenyu Wang, Jun Zheng, Yuying Wu, Southeast University

88999

2 Comparison of LTE and DSRC-Based Connectivity for Intelligent Transportation Systems

Wang Min, Ericsson Research; Martin Winbjörk, Ericsson research; Zhang Zhang, Ericsson Research (Beijing); Ricardo Blasco, Hieu Do, Ericsson research; Stefano Sorrentino, Ericsson Research; Marco Belleschi, Ericsson; Yunpeng Zang, Ericsson research

24647

3 Handover Performance Improvement for Ultra Dense Network of High-Speed Railway

Jingrong Wang, Xuanjin Yang, Shuyue Zhao, Lifei Zhang, Minming Ni, Siyu Lin, Beijing Jiaotong University

27524

4 Index Coding of Point Cloud-based Road Map Data for Autonomous Driving

Kai Fung Chu, Elmer R. Magsino, Ivan Wang-Hei Ho, The Hong Kong Polytechnic University; Chi-Kin Chau, Masdar Institute of Science and Technology

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5 Leveraging the Propagation Model to Make Greedy Routing Decisions in Urban Environments

Abhinav Mukunthan, Craig Cooper, F. Safaei, University of Wollongong; Dr. Daniel Franklin, Mehran Abolhasan, University of Technology Sydney

58958

6 Linear Precoder Design with Imperfect CSI in Underlay Device-to-Device Communication for a Vehicular Platooning Scenario

Xin Zhang, Technische Universität Dresden; Andreas Festag, Fraunhofer IVI; Gerhard Fettweis, Technische Universität Dresden

65373

7 LTE-A Virtual Drive Testing for Vehicular Environments

Michael Charitos, Di Kong, Jue Cao, Denys Berkovskyy, Angelos A. Goulianos, University of Bristol; Tom Mizutani, Jaguar Land Rover; Fai Tila, Geoffrey Hilton, Angela Doufexi, Andrew Nix, University of Bristol

52395

8 Modeling CCH switch to SCH in IEEE 802.11p/WAVE vehicular networks

Guilu Wu, Southeast University; Ren Ping Liu, University of Technology Sydney; Wei Ni, CSIRO; Pingping Xu, Southeast University

99533

9 ROR: An RSSI based Omni-Directional Routing Algorithm for GeoBroadcast in VANETs

Ke Xu, Lin Pu, Jie Dai, Zishan Liu, Zhen Meng, ZHANG Lin, Beijing University of Posts and Telecommunications

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10 SimuCRV? A Simulation Framework for Cognitive Radio Enabled Vehicular Ad Hoc Networks

Rajith C. Abeywardana, Kevin Sowerby, Stevan M. Berber, The University of Auckland

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11 The Implementation and Performance Evaluation of WAVE based Secured Vehicular Communication System

Jie Dai, Lin Pu, Ke Xu, Zhen Meng, Zishan Liu, ZHANG Lin, Beijing University of Posts and Telecommunications

12. Wireless Access Technology and Heterogeneous Networks Papers

69980

1 Analysis of NB-IoT Deployment in LTE Guard-Band
Rapeepat Ratasuk, Nokia Networks; Jun Tan, Nitin Mangalvedhe, Man Hung Ng, Amitava Ghosh, Nokia

92245

2 A New PRACH Transmission Scheme in Unlicensed Spectrum
Zhe Luo, Tao Tao, Nokia Shanghai Bell; Yan Meng, Alcatel Shanghai Bell, Co., Ltd

31178

3 Contention Based Uplink Transmission with NOMA for Latency Reduction
Anxin Li, DOCOMO Beijing Communications Laboratories Co., Ltd; Xiaohang Chen, DOCOMO Beijing Communications Laboratories Co., Ltd.; Huiling Jiang, DOCOMO Beijing Communications Laboratories Co., Ltd

50354

4 Content Offloading via D2D Communications with the Impact of User Preferences and Selfishness
Yijin Pan, Southeast University; Cunhua Pan, H. Zhu, University of Kent; Dr. Qasim Ahmed, University of Huddersfield; Ming Chen, Southeast University, China; Jiangzhou Wang, University of Kent

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5 C/U Split Multi-connectivity in the Next Generation New Radio System
Lei Du, Naizheng Zheng, Hong Zhou, Nokia Bell Labs; Yang, Liu; Zhuyan Zhao, Nokia; Jiankai Chen, Tao Yu, Nokia MBB; Liu Guangyi, Xiaoman Liu, Zhuo Chen, Research Institute of China Mobile

63692

6 Dual Layer Small Cell On/Off Control for Ultra-Dense Small Cell Networks
Kwonjong Lee, Yosub Park, Jihaeng Heo, Yonsei University; Minsoo Na, Network R&D Center, SK Telecom, Bundang, South Korea; Hano Wang, Sangmyun University, Korea; Daesik Hong, Yonsei University

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7 Efficient Real-Fourier Domain-based Color Shift Keying OFDM Implemented With Hartley Transform for Visible Light Communication System
Jian Tang, Lin Zhang, Sun Yat-sen University

32898

8 Energy Efficiency Optimization for Heterogeneous Cellular Networks
Jie Tang, South China University of Technology; Daniel K C So, Emad Alsusa, Khairi Hamdi, University of Manchester; Arman Shojaeifard, Kai-Kit Wong, University College London

58357

9 Energy Efficient Resource Allocation in Downlink Non-Orthogonal Multiple Access (NOMA) System
Ziad Qais Al Abbasi, Daniel K C So, University of Manchester; Jie Tang, South China University of Technology

85949

10 Energy Signal Assisted Access Method for Licensed Assisted Access
Wei Wang, Pingping Xu, Yuan Zhang, Southeast University; Hongyun Chu, southeast university

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11 Enhanced UF-OFDM for Long-delay Multipath Fading Environment
Hiroto Kuriki, Keiichi Mizutani, Kyoto University; Takeshi Matsumura, National Institute of Information and Communications Technology; Hiroshi Harada, Kyoto University

52868

12 Fast Spectrum Reuse and Power Control for Device-to-Device Communication
Jung-Chun Kao, National Tsing Hua University

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13 Field Evaluation on Doppler Spread Based Mobility State Decision for Handover Control in Heterogeneous Networks
Sourabh Maiti, Manabu Mikami, Softbank Corp.; Kenji Hoshino, SOFTBANK Corp.

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14 Flexible Network Deployment in 5G
Taylan Sahin, Technical University of Munich; Dr. Ömer Bulakci, Huawei European Research Center; Panagiotis Spapis, Huawei European Research Centre; Alexandros Kaloxylas, Huawei ERC

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15 High Security Orthogonal Factorized Channel Scrambling Scheme with Location Information Embedded for MIMO-based VLC System
Yiru Wang, Lin Zhang, Sun Yat-sen University

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16 Indoor Deployment Strategies for Ultra Dense Urban Areas
Fernando Tavares, Aalborg University; Jeroen Wigard, István Z. Kovács, Nokia Bell Labs; Huan Cong Nguyen, Preben E. Mogensen, Aalborg University

37731

17 Interference Modelling in Cellular Networks with α -Ginibre Point Process Deployed Base Stations
Ahsan Ali, Rein Vesilo, Macquarie University

43328

18 Interleaved Resource Mapping for Autonomous Device-to-Device Discovery in Public Safety LTE
Kazushi Muraoka, Taichi Ohtsui, Hiroaki Aminaka, Yasuhiko Matsunaga, NEC Corporation

41635

19 Joint Channel Access Mechanism and Scheduling Design for Licensed Assisted Access System
Dawei Wang, Nokia Bell Labs; Tao Tao, Jianguo Liu, Nokia Shanghai Bell

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20 Low Complexity Throughput Optimisation in OFDMA Hetnets with Heterogeneous Services
Tran Nam Le, Queensland university of technology; Dhammika Jayalath, Jacob Coetzee, Queensland University of Technology

74381

21 Millimeter-Wave Multi-Hop Wireless Backhauling for 5G Cellular Networks
Biswapratapsingh Sahoo, Chun-Han Yao, Hung-Yu Wei, National Taiwan University

28745

22 SC-PTM or MBSFN for Mission Critical Communications?
Alaa Daher, ETELM, Telecom ParisTech; Marceau Coupechoux, TELECOM Paris Tech; Philippe Godlewski, ENST - Paris; Pierre Ngouat, PNG-Technologies; Pierre Minot, ETELM

30113

23 Support Vector Machine-Based Wireless Channel Classification for Adaptive AFC in LTE Downlink

Young Yun Kang, Hyun Ju Go, Min-Ho Shin, Samsung Electronics; Woonhaing Hur, Samsung

89395

24 The Role of Inter-Frequency Measurement in Offloading Traffic to Small Cells

Ali Mahbas, H. Zhu, Jiangzhou Wang, University of Kent

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25 Throughput-Maximum Resource Provision in the OFDMA-based Wireless Virtual Network

Lei Yin, Ling Qiu, Zheng Chen, University of Science and Technology of China

35494

26 User-Oriented Graph-Based Dynamic Frequency Reuse Scheme in Heterogeneous Networks

Liang Chen, Lin Ma, Yubin Xu, Harbin Institute of Technology; Victor C. M. Leung, The University of British Columbia

13. Wireless Networks and Security Papers

98498

1 AC Blind False Data Attacks in Smart Grid Networks

Wen-Long Chin, Chun-Hung Lee, Ming-Ru Lu, National Cheng Kung University

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2 An Approach to Mitigate Black Hole Attacks on Vehicular Wireless Networks

John Tobin, University College Dublin

61096

3 Anchor-Chain: A Seamless Producer Mobility Support Scheme in NDN

Yizhe Zheng, Xuewei Piao, Kai Lei, Peking University

88952

4 An Efficient and Balanced BBU Computing Resource Allocation Algorithm for Cloud Radio Access Networks

Fan Zhang, Jun Zheng, Yuan Zhang, Liangyu Chu, Southeast University

57464

5 Applying Robust Header Compression version 2 for UDP and RTP Broadcasting with Field Constraints

Mate Tomoskozi, Budapest University of Technology and Economics; Patrick Seeling, Central Michigan University; Peter Ekler, Budapest University of Technology and Economics; Frank Fitzek, TU Dresden

54912

6 Cooperative Relay Selection and Forwarding in Vehicle-to-Infrastructure Communications

He Li, Yang Yang, QIU Xue-song, Zhipeng Gao, Guizhen Ma, Beijing University of Posts and Telecommunications

93782

7 Gain-Aware Joint Uplink-Downlink Resource Allocation for Device-to-Device communications

Pan Zhao, Beijing University of Posts and Telecommunications; Peng Yu, Beijing University of Posts and Telecommunications, China; lei feng, wenjing li, QIU Xue-song, Beijing University of Posts and Telecommunications

64319

8 Game-Theoretic Analysis for Security of Various Software-Defined Networking (SDN) Architectures

Chao Qi, Jiangxing Wu, Hongchang Chen, Hongtao Yu, Hongchao Hu, Guozhen Cheng, National Digital Switching System Engineering & Technology R&D Center

13003

9 Intelligent Optimizing Scheme for Load Balancing in Software Defined Networks

Chen Yu, Zhejiang University; Zhifeng Zhao, Zhejiang University; Yifan Zhou, Honggang Zhang, Zhejiang University

75749

10 Low-Complexity Beamforming Schemes of SINR Balancing for the Gaussian MISO Multi-Receiver Wiretap Channel

Tangyanqun, Zhengzhou Institute of Information Science and Technology; Yunpeng Hu, Xiaoyi Zhang, NDSC; Ou Li, National Digital Switching System Engineering & Technological Center; Hongyi Yu, PLA Information Engineering University

37310

11 Machine-Learning-Based Throughput Estimation Using Images for mmWave Communications

Hironao Okamoto, Takayuki Nishio, Kyoto University; Masahiro Morikura, Graduate School of Informatics, Kyoto-University; Koji Yamamoto, Kyoto University; Daisuke Murayama, NTT; Katsuya Nakahira, NTT Corporation

78607

12 Performance Improvement of the Uplink WCDMA Scrambling Code Identification Using Multiple Antenna Combining

Chankeun Park, Sung-Ho Lim, Daegu Gyeongbuk Institute of Science and Technology; Jaeseok Lee, DGIST; Ji-Woong Choi, Daegu Gyeongbuk Institute of Science and Technology

49337

13 Physical Layer Secret Key Capacity of Two Moving Terminals

Xu Wang, Mingliang Li, Liang Jin, NDSC; Kaizhi Huang, Information Engineering University

10972

14 Preventing Congestion by Selective Admission Control in LTE-Based Public Safety Network

Jialu Sun, Beijing University of Post and Telecommunication; lei feng, Beijing University of Posts and Telecommunications; Peng Yu, Beijing University of Posts and Telecommunications, China; wenjing li, QIU Xue-song, MENG Luo-ming, Beijing University of Posts and Telecommunications

21670

15 Seamless Switching using Distributed Antenna Systems for High-Speed Railway

wael, university of kent; Junyuan Wang, H. Zhu, Jiangzhou Wang, University of Kent

44921

16 Secrecy Outage and Diversity Analysis in D2D-Enabled Cellular Networks

Yajun Chen, National Digital Switching System Engineering & Technological R&D Center; Xinsheng Ji, Kaizhi Huang, NDSC, China; Xiao-lei Kang, NDSC of China

25657

17 Secure Massive MIMO Amplify-and-Forward Relaying Networks in Poisson Field

Tiep M. Hoang, Queen's University Belfast; H. D. Tuan, University of Technology, Sydney; Trung Q. Duong, Queen's University Belfast

80507

18 Secure Selection in Untrusted Decode-and-Forward Relay Networks with Direct links

Dan Deng, Guangzhou Panyu Polytechnic; Wen Zhou, Lisheng Fan, Shantou University

91253

19 Signal Conversion: Combat Eavesdropping for Physical Layer Security Improvement

Datong Xu, Pinyi Ren, Qinghe Du, Li Sun, Yichen Wang, Xi'an Jiaotong University

80079

20 Social-aware Bootstrapping and Trust Establishing Mechanism for Vehicular Social Networks

Dzhamal Alishev, Rasheed Hussain, Waqas Nawaz, JooYoung Lee, Innopolis University

92658

21 Weighted-Voronoi-Diagram Based Codebook Design against Passive Eavesdropping for MISO Systems

Dongyang Xu, Pinyi Ren, Qinghe Du, Li Sun, Yichen Wang, Xi'an Jiaotong University

14. Future Trends and Emerging Technologies Papers

63427

1 AC-PROT: An Access Control Model to Improve Software-Defined Networking Security

Alven Wu, Ren Ping Liu, University of Technology Sydney; Wei Ni, CSIRO; Dali Kaafar, Data 61, Commonwealth Scientific and Industrial Research Organisation; Xiaojing Huang, University of Technology Sydney

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36 Impact of Different Parameters on Channel Characteristics in a High-Speed Train Ray Tracing Tunnel Channel Model

Yapei Zhang, YU LIU, Shandong University; Jian Sun, University of Shandong; Cheng-Xiang Wang, Heriot-Watt University; Xiaohu Ge, Huazhong University of Science and Technology

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37 Indoor Localization System for Mobile Target Tracking based on Visible Light Communication

Zhiming Guo, Weiwei Xia, Ziyang Jia, Yueyue Zhang, Lianfeng Shen, Southeast University

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38 Indoor Tracking Based on Fusion of Wireless Positioning, Motion Recognition and Map Matching

Genming Ding, Fujitsu Research & Development Center, Co. Ltd.

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39 Is It Cost-Effective to Share Roadside Infrastructure for Non-Safety Use?

Alexandre K. Ligo, Jon M. Peha, Carnegie Mellon University

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40 Iterative Decoding for the Concatenated Code to Correct Nonbinary Insertions/Deletions

Yuan Liu, Weigang Chen, Tianjin University

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41 Learning-based Caching with Unknown Popularity in Wireless Video Networks

Yuan Yuan Tan, Yiling Yuan, Yang Tao, Bo Hu, Fudan University

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42 Lifetime Constrained Relay Node Placement in WSNs: A Cluster-based Approximation Algorithm

Chaofan Ma, Chinese Academy of Sciences; Wei Liang, Shenyang Institute of Automation, Chinese Academy of Sciences; Meng Zheng, Shenyang Institute of Automation - Chinese Academy of Sciences

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43 Low Complexity Algorithm for Efficient Relay Assignment in Unicast/Broadcast Wireless Networks

Le Nam Hoang, Halmstad University; Elisabeth Uhlemann, Malardalen University; Magnus Jonsson, Halmstad University

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44 Low-Complexity Two-Way AF Relay Design for Millimeter Wave Communication Systems

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45 Mobility-Aware User Caching Strategy with QoE Maximization

Yinglei Teng, Guofeng Lu, Weiqi Sun, Yue Ma, Beijing University of Posts and Telecommunications

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46 Multi-Pass Decoding for the Robust Transmission of Deep-Space Images

Rehan mahmood, Beihang University

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47 New Results on Moment Generating Functions of Generalized Wireless Fading Channels and Applications

Ehab Salahat, IEEE; Ali Hakam, UAE University; Nazar Ali, Khalifa University of Science, Technology and Research

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48 Optimal Power Control and Beamforming for Full-Duplex Small Cell Wireless Networks

Rung-Hung Gau, Zh-Hong Xiao, Tseng-Lung Yuan, National Chiao Tung University

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49 Performance Analysis and Optimization of Millimeter Wave Networks with Dual-Hop Relaying

Ali Chelli, Norwegian University of Science and Technology (NTNU); Kimmo Kansanen, Ilangko Balasingham, Norwegian University of Science and Technology; Mohamed-Slim Alouini, KAUST

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50 Performance Analysis of Cooperation Schemes in Cooperative Cognitive Radio Networks

Dingjie XU, Yichen Gao, Chenchen Yang, Shanghai Jiao Tong University; Yao Yao, Huawei Technologies Co. Ltd.; Chaoxian Zhang, Xiamen University Tan Kah Kee College.; Bin Xia, Shanghai Jiao Tong University

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51 Physical Layer Authentication for Mission Critical Machine Type Communication using Gaussian Mixture Model based Clustering

Andreas Weinand, Michael Karrenbauer, University of Kaiserslautern; Lianghai Ji, Univ of Kaiserslautern; Hans Schotten, University of Kaiserslautern

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Fen Cheng, Peng Sun, Nan Zhao, Dalian University of Technology

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53 Precoded Index Modulation (PIM) for Multi-Input Multi-Output OFDM

Meng Zhang, Xiang Cheng, Peking University

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54 QoE-Oriented Resource Allocation for DASH-Based Video Transmission over LTE Systems

Anyue Wang, Zhilong Zhang, Beijing University of Posts and Telecommunications; Danpu Liu, Beijing University of Posts and Telecommunications, P.R. China

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55 Radio resource management for V2V discovery

Beatriz Soret, Nokia Bell Labs; Marta Gatnau, Aalborg University; István Z. Kovács, Nokia Bell Labs; Francisco J. Martin-Vega, University of Málaga; Gilberto Berardinelli, Nurul Huda Mahmood, Aalborg University

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56 Relay Selection and Resource Allocation for Energy Harvesting Cooperative Networks

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57 Resource Allocation for an Underlay Wireless Powered Cognitive Radio

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58 Robust Sum Secrecy Rate Optimization for MISO Systems with Device-to-Device Communication

Weidong Mei, Zhi Chen, University of Electronic Science and Technology of China; Jun Fang, National Key Lab. of Sci. and Tech. on Communications, UESTC, China

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59 Rushing Full Speed with LTE-Advanced is Economical - A Power Consumption Analysis

Robert Falkenberg, Benjamin Sliwa, Christian Wietfeld, TU Dortmund University

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60 Secrecy Outage Probability of Multiuser Untrusted Amplify-and-Forward Relay Networks

Dan Deng, Guangzhou Panyu Polytechnic; Wen Zhou, Lisheng Fan, Shantou University

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61 Secure Underlay Cognitive Relay Networks in Presence of Primary User's Interference

Sourabh Solanki, Prabhat Kumar Upadhyay, Indian Institute of Technology Indore

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62 Sensitivity to RAN in a Mobile Field Survey

Laurent Schumacher, Marie-Ange Remiche, UNAMUR

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Muhammad Abrar, Massey University; Rooha, Masroor

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Safa Salahat, Khalifa University

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Rafael Molina-Masegosa, Javier Gozálviz, Universidad Miguel Hernandez de Elche (UMH)

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66 The Impact of AGC on Cyclic prefix Length for OFDM Systems

Hao Wu, Jun Li, Bo Dai, Yuan Liu, ZTE Corporation

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67 The Impact of Loopback Channel Estimation Error on Performance of Full-duplex Two-way AF Relaying Communication Systems

Chen-Ting Chen, Yen-Chang Chen, Min-Kuan Chang, Guu-Chang Yang, National Chung Hsing University

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68 The Impact of Road Configuration in V2V-based Cooperative Localization

Macheng Shen, Ding Zhao, University of Michigan, Ann Arbor; Jing Sun, University of Michigan

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69 ThinGs In a Fog: System Illustration with Connected Vehicles

Jim Martin, Anjan Rayamajhi, Manveen Kaur, Jianwei Liu, Mizanur Rahman, Clemson University

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70 Toeplitz Matrix Reconstruction of Interpolated Coprime Virtual Array for DOA Estimation

Xing Fan, Chengwei Zhou, Zhejiang University; Yujie Gu, Bar-Ilan University; Zhiguo Shi, Zhejiang University

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71 Towards Zero Data Interruption Time with Enhanced Synchronous Handover

Lucas Chavarria Gimenez, Aalborg University; Per Henrik Michaelsen, Nokia Networks; Klaus I. Pedersen, Nokia - Bell Labs; Troels E. Kolding, Nokia Bell Labs

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72 Transceiver Design for Cognitive Full-Duplex Two-Way MIMO Relaying System

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**73 Ultra-Wideband Antenna-Induced Error Prediction using
Deep Learning on Channel Response Data**

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University

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**74 User Association for Offloading in Heterogeneous Network
Based on Matern Cluster Process**

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Xuefei Zhang, Prof. Qimei Cui, Beijing University of Posts and
Telecommunications