VTC2018-Spring Accepted Paper List

1. Antenna Systems, Propagation, and RF Design Papers

51565

1 A Framework for Activity Monitoring and Fall Detection Based on the Characteristics of Indoor Channels
Ahmed Abdelgawwad, Matthias Pätzold, University of Agder

29942

2 Analog Self-Interference Cancellation with Automatic Gain Control for Full-Duplex Transceivers
Visa Tapio, Univ. Oulu; Marko Sonkki, Markku Juntti, University of Oulu

26431

3 Angular and Temporal Statistics for Millimeter Wave Channels
Berna Bulut, Angelos A. Goulianos, Evangelos Mellios, University of Bristol; Moray Rumney, Keysight Technologies, UK; Andrew Nix, University of Bristol

37630

4 Aviation Multicarrier Communication System Performance in Several 5 GHz Band Air-Ground Channels
David Matolak, HOSSEINALI JAMAL, University of South Carolina

16463

5 Beamforming Impact on Time Dispersion Assessed on Measured Channels
Arne Simonsson, Henrik Asplund, Jonas Medbo, Karl Werner, Ericsson Research

72007

6 Definition and Analysis of Quasi-Stationary Intervals of Mobile Radio Channels
Matthias Pätzold, University of Agder; Carlos A. Gutierrez, Universidad Autonoma de San Luis Potosi

56907

7 Dynamic Double Directional Propagation Channel Measurements at 28 GHz
Celalettin Umit Bas, Rui Wang, Seun Sangodoyin, University of Southern California; Sooyoung Hur, Samsung; Kuyeon Whang, Samsung Electronics, Suwon, Korea; Jeongho Park, Samsung Electronics; Jianzhong Charlie Zhang, Samsung Research America; Andreas F. Molisch, University of Southern California

47892

8 Experimental Evaluation of the Performance of CoMP Systems for Closely-Located Users Including Users? Body Influence
Ahmad Shekhan, Sakib Bin Redhwan, Lund University, Sweden; Ghassan Dahman, École de technologie supérieure (ETS); Jose Flordelis, University of Lund; Fredrik Tufvesson, Lund University

63685

9 Experimental Investigation of the Impact of BMI on Ultrawideband MIMO Body-to-Body Networks
Seun Sangodoyin, Andreas F. Molisch, University of Southern California

24061

10 Large-Area Super-Resolution 3D Digital Maps for Indoor and Outdoor Wireless Channel Modeling
Qianyu Zhang, Guanchong Niu, Simon Pun, The Chinese University of Hong Kong, Shenzhen

53300

11 Narrow Beam Channel Characteristics Measured on an 5G NR Grid-of-Beam Test-bed
Magnus Thurfjell, Arne Simonsson, Ericsson Research; Olle Rosin, Ericsson Research, Sweden; Oscar Lundberg, Luleå University of Technology

18217

12 Stochastic Geometry Based Coverage Estimation Using Realistic Urban Shadowing Models
Charles Wiame, Université catholique de Louvain; Luc Vandendorpe, Université cathoique de Louvain; Claude Oestges, Université catholique de Louvain

19211

13 The Density of Millimeter Wave Access Points in Dense Urban Areas and its Effect On Link Availability in the Presence of Blocking
Lutz Ewe, Hardy Halbauer, Nokia Bell Labs

16122

14 Validation of a Real-Time Geometry-Based Stochastic Channel Model for Vehicular Scenarios
Markus Hofer, Zhinan Xu, AIT Austrian Institute of Technology; Dimitrios Vlastaras, Lund University; Bernhard Schrenk, David Löschenbrand, AIT Austrian Institute of Technology; Fredrik Tufvesson, Lund University; Thomas Zemen, AIT Austrian Institute of Technology

2. Signal Transmission and Reception Papers

67718

1 A Design of Non-Binary Turbo Codes over Finite Fields Based on Gaussian Approximation and Union Bounds
Toshiki Matsumine, Hideki Ochiai, Yokohama National University

35440

2 A Latency Reducing Method for TDD-based High-Speed Train Communications
Junhyeong Kim, Electronics and Telecommunications Research Institute; Bing Hui, ETRI; Ilgyu Kim, Electronics and Telecommunications Research Institute; Youngnam Han, Korea Advanced Institute of Science and Technology

34698

3 A Machine Learning-based Aerial Traffic Monitoring System
Haoran Niu, Nuria Gonzalez-Prelcic, Robert W. Heath Jr., The University of Texas at Austin

57346

4 Angular Based Beamforming and Power Allocation Framework in a Multi-User Millimeter-Wave Massive MIMO System
Mohamed Shehata, Maryline Helard, INSA de Rennes; Matthieu Crussière, Institute of Electronics and Telecommunications of Rennes; Antoine Roze, INSA de Rennes; Charlotte Langlais, IMT Atlantique, Lab-STICC, UBL

98487

5 An ICI-aware Approach for Physical-layer Network Coding in Time-frequency-selective Vehicular Channels
Zhenhui SITU, Ivan Wang-Hei Ho, The Hong Kong Polytechnic University; Taotao Wang, Soung Chang Liew, The Chinese University of Hong Kong

16924

6 A Novel Digital Predistortion of 5G Wideband Power Amplifier with Narrow Bandwidth ADC
Ning Guan, Hua Wang, Beijing Institute of Technology; Kenan Li, Beijing institute of Technology

89116

7 A Suboptimal Algorithm for SCMA Codebook Design over Uplink Rayleigh Fading Channels
Lining Tian, Zhejiang University

11935

8 A Technique to Reduce PAPR for OFDM-IM using Multiple Mapping Rules for IM
Hanseong Jo, Yonggu Lee, Sangin Jeong, Gwangju Institute of Science and Technology (GIST); Jinho Choi, Gwangju Institute of Science and Technology

22440

9 Channel Estimation for Uplink SCMA Systems with Reduced Training Blocks
Jehyun Heo, University of Yonsei; Insik Jung, Yonsei University; Taehyung Kim, Hyunsoo Kim, University of Yonsei; Daesik Hong, Yonsei University

51524

10 Demodulation of Double Differential PSK in Presence of Large Frequency Offset and Wide Filter
Siavash Safapourhajari, André B. J. Kokkeler, University of Twente

49987

11 Detection of Generalized Media-based Modulation Signals using Multi-layered Message Passing
Manu Krishnan K., Swaroop Jacob, A. Chockalingam, Indian Institute of Science, Bangalore

17667

12 Experimental SEFDM Pipelined Iterative Detection Architecture with Improved Throughput
Waseem Ozan, UCL; Paul Anthony Haigh, University College London; Bo Tan, Coventry University; Izzat Darwazeh, university college london

75807

13 Full-Duplex MIMO Small-Cells: Secrecy Capacity Analysis
Ayda Babaei, Abdol Hamid Aghvami, King's College London; Arman Shojaeifard, Kai-Kit Wong, University College London

28233

14 Hybrid Beamforming for Broadband Millimeter Wave Massive MIMO Systems
Rui Chen, Hui Xu, Changle Li, Lina Zhu, Jiandong Li, Xidian University

49720

15 Implementation of a Multi-Core Data Link Layer Processor for THz communication
Lukasz Lopacinski, Mohamed Eissa, Goran Panic, Marcin Brzozowski, IHP; Alireza Hasani, Brandenburg University of Technology Cottbus?Senftenberg; Rolf Kraemer, IHP

22318

16 Information-Optimum Discrete Signal Processing for Detection and Decoding
Gerhard Bauch, Jan Lewandowsky, Maximilian Stark, Peter Oppermann, Hamburg University of Technology

44501

17 Interference Management in Full-Duplex Wireless Cellular Networks via Fractional Programming
Kaiming Shen, Wei Yu, University of Toronto

33116

18 Interleaved CRC for Polar Codes
Dennis Hui, Ericsson Research

98927

19 Iterative Learning Control Assisted Neural Network for Digital Predistortion of MIMO Power Amplifier
Kenan Li, Beijing institute of Technology; Ning Guan, Hua Wang, Beijing Institute of Technology

53365

20 Joint Beamforming and Resource Allocation for Multi-user Full-duplex Wireless Powered Communication Networks
Derek Kwaku Pobi Asiedu, Sumaila Mahama, Kyoung-Jae Lee, Hanbat National University

41704

21 Low-Complexity Slot-Based Bit Loading for Multicarrier Wireless Systems
Youssef Iraqi, Arafat Al-Dweik, Khalifa University; Mohammed Kalil, IBM Canada

73708

22 LTE-Advanced Downlink Channel Estimation Under Minimum Resource Allocation With DM-RS
Yi-Hsiang Lin, David Lin, National Chiao Tung University

95725

23 On Closed Form Capacities of Discrete Memoryless Channels
Thuan Nguyen, Thinh Nguyen, Oregon State University

60872

24 On The Capacities of Discrete Memoryless Thresholding Channels
Thuan Nguyen, Yu-Jung Chu, Thinh Nguyen, Oregon State University

15454

25 On the Performance Analysis of Hybrid-Duplex Systems for Aeronautical Communications
Ernest Tan, Nanyang Technological University; Rajendra Prasad Sirigina, NTU, Singapore; Anoop Kumar Krishna, Airbus Group Singapore Pte Ltd; A.S. Madhukumar, Nanyang Technological University

97030

26 On the Performance of NOMA-enabled Spectrally and Energy Efficient OFDM (SEE-OFDM) for Indoor Visible Light Communications
Galymzhan Nauryzbayev, Mohamed Abdallah, Hamad Bin Khalifa University; Hany Elgala, State university of New York at Albany

10707

27 On the Performances of POPS-PHYDYAS waveforms
Zeineb Hraiech, Higher School of Communications of Tunis (SUP'COM); Fatma Abdelkefi, Sup'Com; Mohamed Siala, SUPCOM, Tunis, Tunisia; Rafik Zayani, SUP'COM

83952

28 Optical Asymmetric Modulation for VLC Systems
Hanaa Marshoud, Khalifa University; Sami Muhaidat, University of Surrey; Paschalis Sofotasios, Khalifa University; Muhammad Ali Imran, University of Glasgow; Bayan S. Sharif, Khalifa University of Science and Technology; George Karagiannidis, Aristotle University of Thessaloniki

49607

29 Optimal Numerology in OFDM Systems Based on Imperfect Channel Knowledge
Ljiljana Marijanovic, TU Wien; Stefan Schwarz, Technische Universität (TU) Wien; Markus Rupp, TU Wien

62771

30 Optimal Power Allocation for Amplify and Forward Relaying with Finite Blocklength Codes and QoS Constraints
Yulin Hu, RWTH Aachen; Mustafa Cenk Gursoy, Syracuse University; Anke Schmeink, RWTH Aachen University

72666

31 Optimization of Impulsive Noise Mitigation Scheme for PAPR Reduced OFDM Signals Over Powerline Channels
Kelvin Anoh, Bamidele Adebisi, Khaled Rabie, Manchester Metropolitan University; Haris Gacanin, Nokia Bell Labs

68076

32 Optimized Diagonal and Pseudo-random Phase Precoding Schemes for MIMO VLC Systems
Ashok D. R., A. Chockalingam, Indian Institute of Science, Bangalore

86021

33 Performance of Imaging Receivers using Convex Lens in Indoor MIMO VLC Systems
K. V. S. Sai Sushanth, A. Chockalingam, Indian Institute of Science, Bangalore

34716

34 Performance of Interleaved OFDM-IM over Frequency-Selective Fading Channels
Jinho Choi, Gwangju Institute of Science and Technology

89906

35 Precoding for Spread OFDM IM
Thien Van Luong, Queen's University of Belfast; Youngwook Ko, Queen's University Belfast; Jinho Choi, Gwangju Institute of Science and Technology

57783

36 Precoding technique for ill-conditioned massive MIMO-VLC system
Dr. Rangeet Mitra, Assistant Professor, IIIT SriCity, Chittoor; Vimal Bhatia, Indian Institute of Technology Indore

43005

37 Reducing CQI Feedback Overhead by Exploiting Spatial Correlation
Samira Homayouni, Stefan Schwarz, Technische Universität (TU) Wien; Martin Müller, Markus Rupp, TU Wien

42752

38 The Application of Machine Learning in mmWave-NOMA Systems
Jingjing Cui, Southwest Jiaotong University; Zhiguo Ding, Lancaster University; Pingzhi Fan, Southwest Jiaotong University

57123

39 The role of WiFi in LiFi hybrid networks based on Blind Interference Alignment
Ahmad Adnan Qidan, Universidad Carlos III de Madrid; Maximo, Morales Cespedes; Ana García-Armada, Universidad Carlos III de Madrid

13027

40 Universal Filtered OFDM with Filter Shift Keying
Selahattin Gökceli, Ertugrul Basar, Gunes Kurt, Istanbul Technical University

3. Cognitive Radio and Spectrum Management Papers

63613

1 Adaptive Iteratively Weighted ?_1/2 Regularized Algorithm using Multiple Sub-Wavelet-Dictionaries
Yunyi Li, Fei Dai, Jie Zhang, Jie Yang, Guan Gui, Hikmet Sari, Nanjing University of Posts and Telecommunications

42913

2 Energy efficient cognitive spectrum sharing scheme based on inter-cell fairness for integrated satellite-terrestrial communication systems
Min Jia, Ximu Zhang, Xuemai Gu, Qin Guo, Harbin Institute of Technology

24478

3 Joint Bandwidth and Power Allocation of Hybrid Spectrum Sharing in Cognitive Radio
Junhui Zhao, Qiuping Li, Beijing Jiaotong University; Yi Gong, South University of Science and Technology of China

51673

4 Micro operators for ultra-dense network deployment with network slicing and spectrum micro licensing
Marja Matinmikko-Blue, University of Oulu; Seppo Yrjölä, Nokia; Matti Latva-aho, University of Oulu

91390

5 Network Selection in Cognitive Radio Networks with Imperfect Spectrum Sensing
Ye Wang, Jia Yu, Harbin Institute of Technology; Zhang Qinyu, Harbin Institute of Tech.; Huifang Xu, Yue Li, Harbin Institute of Technology

41259

6 Performance Evaluation of Covariance Tapering for Coverage Mapping
Ahmad Mahbubul Alam, Sana Ben Jemaa, Orange Labs; Thomas Romary, Mines Paristech

23894

7 Secondary Transceiver Design for Secure Primary Transmission
Yang Cao, Nan Zhao, Dalian University of Technology; F. Richard Yu, Carleton University; Minglu Jin, Dalian University of Technology; Yunfei Chen, University of Warwick; Victor C. M. Leung, The University of British Columbia

4. Multiple Antenna Systems and Cooperative Communications Papers

70732

1 A joint multiplexing and resource allocation algorithm for asynchronous underlay D2D communications
Mylene Pischella, Rostom Zakaria, CNAM; Didier LE RUYET, CNAM Paris

11843

2 A Low-Complexity Iterative Transmit Precoding Algorithm for Spatial Modulation Systems
Xuechao Wang, Xudong Zhu, Ziyuan Sha, Tsinghua University

12317

3 A Low-Complexity Linear Precoding Algorithm Based on Jacobi Method for Massive MIMO Systems
JUAN CARLOS MINANGO NEGRETE, Unicamp; Andrea Carolina Flores, Universidade Estadual de Campinas

99945

4 A Low Complexity ML Detection for Uplink Massive MIMO Systems with One-Bit ADCs
Yo-Seb Jeon, Namyoon Lee, Pohang University of Science and Technology (POSTECH); Song-Nam Hong, Ajou University; Robert W. Heath Jr., The University of Texas at Austin

13747

5 A MPSK SOURCES DIRECTION FINDING METHOD BY EXPLOITING THE PROPERTY OF SIGNAL SOURCES
Congmin Wen, Yuehua Ding, South China University of Technology

27219

6 An Angular Soft Forwarding Scheme for Wireless Cooperative Relay Networks
Dushantha Nalin K. Jayakody, National Research Tomsk Polytechnic University; Marwa Qaraqe, Hamad Bin Khalifa University; Rui Dinis, Universidade Nova de Lisboa

20840

7 A Relay Selection for Dual-User Amplify-and-Forward Systems in a Dense Relay Environment
Alberto Zanella, IEIIT-CNR; Alessandro Bazzi, Barbara M. Masini, CNR-IEIIT

21604

8 Complexity Reduction Schemes for Gibbs Sampling MIMO Detection with Maximum Ratio Combining
Yukitoshi Sanada, Keio University

50436

9 Constructive Interference Beamforming for Cooperative Dual-Hop MIMO Relay Systems
Ang Li, Christos Masouros, University College London

87234

10 Cooperative Access Networks: Optimum Fronthaul Quantization in Distributed Massive MIMO and Cloud RAN
Alister Burr, Manijeh Bashar, Dick Maryopi, University of York

74893

11 Digital Compensation Wideband Analog Beamforming for Millimeter-Wave Communication
zhiqiang Wang, Long Cheng, Guangrong Yue, Jun Wang, University of Electronic Science and Technology of China

92086

12 Diverse Communication Modes in Cooperative Downlink Non-orthogonal Multiple Access
Nan Li, KTH Royal Institute of Technology; Ming Xiao, KTH; Lars Rasmussen, KTH Royal Institute of Technology

33064

13 Dual Polarized UCA-based OAM Multi-mode Transmission with Inter-mode Spreading
Gye-Tae Gil, Ju Yong Lee, Dong-Ho Cho, Seungjae Jung, Joonhyuk Kang, KAIST

30429

14 Effective Capacity Analysis of Equal Gain Diversity Combiners over Generalized Fading Channels
K. Denia Kanellopoulou, University of Athens; Kostas Peppas, National Centre for Scientific Research "Demokritos; P. Takis Mathiopoulos, University of Athens

67696

15 Efficient Robust Beamforming for Downlink Transmission in Massive MIMO Systems
Malcolm Sande, Sunil Maharaj, University of Pretoria

26884

16 Energy Efficient Robust F-RAN Downlink Design for Hard and Soft Fronthauling
Di Chen, University of Rostock

17759

17 Evaluation of Nonlinear Effects in a RoF SpatialMux MIMO-LTE Fronthaul System
Carlos Mateo, Pedro L. Carro Ceballos, Paloma Garcia-Ducar, Jesus de Mingo, Iñigo Salinas, University of Zaragoza

11778

18 Fast phase synchronization with clustering and one-bit feedback for distributed beamforming in a wireless sensor network
Jonghyoek Lee, Sungbok Lee, Jaehyun Park, Pukyong National University

26607

19 Fast Widely Symbol Detection for MIMO Systems
Ruo-Ya Huang, Hsien-Seng Hung, Hoang-Yang Lu, National Taiwan Ocean Unversity

11252

20 Graph Coloring-based Pilot Reuse with AOA and Distance in D2D Underlay Massive MIMO
Haruhi Echigo, Tomoaki Ohtsuki, Keio University

87960

21 Impact of User Number on Massive MIMO with a Practical Number of Antennas
Wael Boukley Hasan, Paul Harris, Angela Doufexi, Mark Beach, University of Bristol

56183

22 Improved Soft Pilot Reuse Combined with Time-Shifted Pilots in Massive MIMO Systems
Xin Jin, Xidian University; jiangtao wang, xidian university; Yongchao Wang, University of Xidian

17227

23 Low Complexity Decoders for Spatial and Quadrature Spatial Modulations
Ibrahim Al-Nahhal, Octavia A. Dobre, Memorial University; Salama Ikki, Lakehead University

23686

24 Markov Chain Monte Carlo Methods for a Low Complexity LTE-Advanced Joint Detector
Rodrigo Alberto Justavino Castillo, Jan Tannich, Melanie Falk, Technische Universität Hamburg-Harburg; Gerhard Bauch, Hamburg University of Technology

22140

25 Multi-User Frequency-Selective Hybrid MIMO Demonstrated Using 60 GHz RF Modules
Steve Blandino, KU Leuven; Claude Desset, imec; Cheng-Ming Chen, KU Leuven; Andre Bourdoux, imec; Sofie Pollin, KU Leuven

87902

26 On maximum D2D multiplexing in asynchronous communications
Mylene Pischella, Rostom Zakaria, CNAM; Didier LE RUYET, CNAM Paris

32459

27 PDF based Exact Performance of Structured Symmetric CIODs in Generalized-K Fading MIMO Channels
Chanho Yoon, Seungkwon Baek, ETRI

47273

28 Performance Evaluation of Coordinated Multipoint Transmission at 28 GHz Frequency using 3D Ray Tracing
Muhammad Usman Sheikh, Ritayan Biswas, Jukka Lempiainen, Tampere University of Technology

25217

29 Performance of Millimeter Wave Massive MIMO with the Alamouti Code
Mohamed Alouzi, Francois Chan, Royal Military College

24747

30 Phase-only OFDM Communication for Downlink Massive MIMO Systems

Fred Wiffen, University of Bristol; Mohammud Z. Bocus, Toshiba Telecommunications Laboratory; Angela Doufexi, Andrew Nix, University of Bristol

74154

31 Precoder Design for Cooperative Multi-User Downlink MISO Channels with Finite Side-Link Capacity

Krishna Chitti, Fredrik Rusek, Lund University; Tumula V. K. Chaitanya, Huawei Technologies Sweden AB

14470

32 Structured Random Codebook Design for GaBP Iterative Detection in Massive SCMA

Inagaki Keisuke, Takumi Takahashi, Shinsuke Ibi, Seiichi Sampei, Osaka University

78008

33 Turbo Multi-User Detection for SC-FDE Massive MIMO Systems

João Madeira, Universidade Nova de Lisboa - Faculdade de Ciências e Tecnologias; João Guerreiro, Instituto de Telecomunicações; Rui Dinis, Universidade Nova de Lisboa

53632

34 Uplink Pilots for Multi-User MIMO with Mixed Grant Free and Grant Based Transmissions

Nassar Ksairi, Mérouane Debbah, Huawei Technologies

77441

35 User Rate and Energy Efficiency of HetNets Based on Poisson Cluster Process

Jiang Xinqi, Harbin Institute of Technology, Shenzhen; Fu, UoR

5. Radio Access Technology and Heterogeneous Networks Papers

59858

1 Adaptive Beam-Frequency Allocation Algorithm with Position Uncertainty for Millimeter-Wave MIMO Systems

Rafail Ismayilov, University of Goettingen; Megumi Kaneko, National Institute of Informatics; Takefumi Hiraguri, Nippon Institute of Technology; Kentaro Nishimori, Niigata University

93462

2 An Innovative EPC with Not Only Stack for beyond 5G Mobile Networks

Binwei Wu, University of Electronic Science and Technology of China; Lu Ge, Jie Zeng, Tsinghua University; Xiangyun Zheng, Kuang Yujun, University of Electronic Science and Technology of China; Xin Su, Jing Wang, Tsinghua University

19524

3 Capacity Efficient Resource Allocation Strategy in Heterogeneous Networks with Hybrid Access Model

Xu Yang, Xiaohui Li, Xidian University; Wenjuan Pu, Xidian university; Danfeng Meng, Xidian University

76419

4 CDF-Based Scheduling for Uplink Non-Orthogonal Multiple Access

Gao, Zhanyang, Waqas Tariq Toor, Hu Jin, Hanyang University

32425

5 Cloudification and Autoscaling Orchestration for Container-based Mobile Network toward 5G: Experimentation, Challenges and Perspectives

Duc-Hung Luong, Huu-Trung Thieu, Abdelkader Outtagarts, Nokia Bell-Labs France; Yacine Ghamri-Doudane, University of La Rochelle

43661

6 Coalition and Pricing based Data Offloading in Mobile Edge Computing

Tian Zhang, Shandong Normal University

12127

7 Coexistence of Contention-Based General Authorized Access Networks in 3.5 GHz CBRS Band

Reem Karaki, Amitav Mukherjee, Ericsson Research

52832

8 Combined shared and dedicated resource allocation for Device-to-Device Communication

Pavel Mach, Zdenek Becvar, Czech Technical University in Prague

55136

9 Comparison of one-shot and handshaking systems for MTC in 5G

Jin Young Lee, Hyunjong Noh, Kyungjun Lee, Gwangju Institute of Science and Technology (GIST); Jinho Choi, Gwangju Institute of Science and Technology

28608

10 Cost/Revenue Trade-off of Small Cell Networks in the Millimetre Wavebands

Emanuel Teixeira, Instituto de Telecomunicações e DEM, Universidade da Beira Interior; Fernando J Velez, Instituto de Telecomunicações-DEM, Universidade da Beira Interior

23880

11 Effect of Idle Mode Cells on the Ultra-Dense Dynamic TDD Networks

Rui Yang, Xi Dian University; Hongguang Sun, Min Sheng, Yan Zhang, Xidian University; Jia Liu, National Institute of Informatics; Jiandong Li, Xidian University

52228

12 Energy-Aware 3D Aerial Small-Cell Deployment over Next Generation Cellular Networks

Shih-Fan Chou, National Taiwan University; Ya-Ju Yu, National University of Kaohsiung; Ai-Chun Pang, National Taiwan University

37505

13 Energy-Efficient Multicast/Unicast Edge Caching for Dense Small Cell Networks with Graph Theory

Safa Mrad, University Tunis El Manar; Soumaya Hamouda, University of Carthage; Sunil Maharaj, University of Pretoria

63080

14 Experimental evaluation of starved AP identification and management schemes in mobile cooperative WLAN system toward 5G

Akiyoshi Inoki, NTT; Hirantha Abeysekera, NTT Corporation; Munehiro Matsui, Kenichi Kawamura, Yasushi Takatori, NTT; Akira Kishida, NTT DOCOMO, INC.; Yoshifumi Morihiro, NTT DOCOMO; Takahiro Asai, Yukihiko Okumura, NTT DOCOMO, INC.

15946

15 Experimental Validations on Self Interference Cancelled Non-Orthogonal SEFDM Signals

TONGYANG XU, Izzat Darwazeh, university college london

48048

16 Full-Duplex Enabled Cloud Radio Access Network

Arman Shojaeifard, Kai-Kit Wong, University College London; Wei Yu, University of Toronto; Gan Zheng, Loughborough University; Jie Tang, South China University of Technology

19151

17 Half-Duplex ALOHA Systems for Low Power Wide Area Networks

Jun-Bae Seo, Swades De, Indian Institute of Technology Delhi; Seung-Yeon Kim, Korea University

72445

18 Heterogeneous Statistical-Delay QoS and Security Provisioning for D2D Underlay Cellular Networks
Wenwen Xu, Xi?an Jiaotong University; Yichen Wang, Xi'an Jiaotong University

97614

19 Hybrid Wired-Wireless Backhaul Solutions for Heterogeneous Ultra-Dense Networks
Onel Luis Alcaraz López, Hirley Alves, University of Oulu; Richard Demo Souza, Federal University of Santa Catarina (UFSC)

21692

20 IEEE 802.11ax: On Hardware Impairments and Mitigation Schemes for OFDM Uplink Multi-User MIMO PHY
Roger Hoefel, Federal University of Rio Grande do Sul

25363

21 Interference Analysis in Dynamic TDD System Combined or not With Cell Clustering Scheme
Jalal Rachad, Ridha Nasri, Orange Labs

74165

22 Latency-Optimal Task Offloading for Mobile-Edge Computing System in 5G Heterogeneous Networks
Guoxuan Chi, Yumei Wang, Xiang Liu, Yiming Qiu, Beijing University of Posts and Telecommunications

57462

23 Modeling and Optimization of Renewable-Energy Sharing among Base Stations as a Minimum-Cost-Maximum-Flow Problem
Doris Benda, Xiaoli Chu, University of Sheffield; Sumei Sun, Institute for Infocomm Research; Tony Q.S. Quek, Singapore University of Technology and Design; Alastair Buckley, University of Sheffield

71332

24 Multi-Beam Power Allocation for mmWave Communications under Random Blockage
Sungoh Kwon, University of Ulsan; Joerg Widmer, Imdea

52463

25 NOMA and IDMA in Random Access Systems
Yang Hu, City University of Hong Kong; Chongbin Xu, Fudan University; Li Ping, City University of Hong Kong

70063

26 On Power Allocation and Rate Adaption for NOMA-Based Layer-aware Multicasting Systems
Haining Duan, Yu Zhang, Jian Song, Tsinghua University

85064

27 Optimal Cross Layer Design for Decentralized Multi-Packet Reception Wireless Networks
António Furtado, Instituto de Telecomunicações / Nova University of Lisbon; Rodolfo Oliveira, Universidade Nova de Lisboa; Luis Bernardo, Universidade Nova de Lisboa / Instituto de Telecomunicações; Rui Dinis, Universidade Nova de Lisboa

80785

28 Outage Analysis for D2D enhanced Heterogeneous Cellular Network under Maximum Power Constraint
Jing Han, Jing Zhang, Qingjie Zhou, Yajie Diao, Huazhong University of Science and Technology

90300

29 Performance Evaluation of 5G mmWave Edge Cloud with Prefetching Algorithm
Hiroaki Nishiuchi, Khanh Tran Gia, Kei Sakaguchi, Tokyo Institute of Technology

28358

30 Pilot Allocation for Interference Coordination in Two-tier Massive MIMO Heterogeneous Network
Wanming Hao, Osamu Muta, Kyushu University; Haris Gacanin, Nokia Bell Labs

31861

31 Resource Allocation for Uplink Grant-Free Ultra- Reliable and Low Latency Communications
Zhiyi Zhou, Northwestern University; Rapeepat Ratasuk, Nokia Bell Labs; Nitin Mangalvedhe, Amitava Ghosh, Nokia

11026

32 Secure Communications in Hybrid Cooperative Satellite-Terrestrial Networks
Chen Chen, Lingyang Song, Peking University

82579

33 Segmented Framed Slotted Aloha (SFSA) with Capture and Interference Cancellation
Fulvio Babich, Massimiliano Comisso, University of Trieste

50158

34 Spectrum Allocation for mmWave Backhaul Networks: An Approach based on Matching Game
Wenjuan Pu, Xidian university; Xiaohui Li, Xu Yang, Danfeng Meng, Xidian University

53688

35 Uplink Resource Allocation for Shared LTE and SCMA IoT Systems
Naveen Mysore Balasubramanya, Sohail Payami, Mathini Sellathurai, Heriot-Watt University, Edinburgh, U.K.

6. Green Communications and Networks Papers

79376

1 Backhaul Aware Energy Efficiency Analysis of Cache-enabled Cellular Networks
Congshan Fan, Zhimin Zeng, Tiankui Zhang, Beijing University of Posts and Telecommunications; Yue Chen, Queen Mary University of London

70477

2 Delay-aware Energy Efficient Computation Offloading for Energy Harvesting Enabled Fog Radio Access Networks
Xiangyu He, Yue Chen, Kok Keong Chai, Queen Mary University of London

31612

3 Energy Efficiency of Massive MIMO: Cell-Free vs. Cellular
Hong Yang, Bell Labs, Nokia; Thomas L. Marzetta, New York University

94747

4 Energy Efficient Resource Allocation for Secure NOMA Networks
Haijun Zhang, University of Science and Technology Beijing; Ning Yang, Keping Long, USTB; Miao Pan, University of Houston; George K. Karagiannidis, Aristotle University of Thessaloniki; Arumugam Nallanathan, King's College London

92347

5 Energy Efficient Transmitter with Low Resolution DACs for Massive MIMO with Partially Connected Hybrid Architecture
Evangelos Vlachos, Aryan Kaushik, John Thompson, University of Edinburgh

69046

6 Feature Selection Framework for Multi-source Energy Harvesting Wireless Sensor Networks
Marwa Kazdoghli Lagha, Fayçal Ait Aoudia, Matthieu Gautier, University of Rennes 1, IRISA, France; Olivier Berder, University of Rennes 1 / IRISA

69027

7 Intercept Probability Analysis of Wireless Powered Relay System in $kappa$-mu fading
Furqan Jameel, Zheng Chang, Tapani Ristaniemi, University of Jyväskylä

50997

8 Layered Learning Radio Resource Management for Energy Harvesting Small Base Stations
Marco Miozzo, Paolo Dini, CTTC/CERCA

13828

9 MPC for Online Power Control in Energy Harvesting Sensor Networks
Hanan Al Tous, United Arab Emirates University; Imad Barhumi, College of Engineering, UAE University, Al Ain, UAE

69154

10 New Reconfigurable Nonlinear Energy Harvester: Boosting Rate-Energy Tradeoff
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11 Optimal Time Allocation in Relay Assisted Backscatter Communication Systems
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12 Performance Analysis of Wireless Powered Cellular Networks with Downlink SWIPT
Tewodros A. Zewde, Wichita State University; Mustafa Cenk Gursoy, Syracuse University

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13 Sharing the Network End-to-End Energy Consumption among Service Categories
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14 Throughput Maximization for UAV-Enabled Wireless Powered Communication Networks
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2 Broadcast Cost Reduction in Wireless Sensor Networks With Instantly Decodable Network Codes
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4 Detecting Driver?s Distracted Behaviour from Wi-Fi
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5 Directory Service for Connected Vehicles
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6 Downlink Scheduling for Narrowband Internet of Things (NB-IoT) Systems
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7 Dual Mode SWIPT: Waveform Design and Transceiver Architecture with Adaptive Mode Switching Policy
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8 Guard-Time Design for Symmetric Synchronization in IEEE 802.15.4 Time-Slotted Channel Hopping
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9 Iterative Message Alignment for Quantized Message Passing between Distributed Sensor Nodes
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10 Joint Localization and Clock Offset Estimation via Time-of-Arrival with Ranging Offset
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11 Performance Analysis of UAVs Assisted Data Collection in Wireless Sensor Network
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12 Smart Adaptive Class-based Scheduling for Mixed H2H and M2M Traffic in LTE Network
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13 Wake-up control adapting to destination's active/sleep state for on-demand wireless sensor networks
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8. Wireless Networks: Protocols, Security, and Services Papers

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3 Competitive Security Pricing in Cyber-Insurance Market: A Game-Theoretic Analysis
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4 Compromised Secrecy Region with Friendly Jammers in Heterogeneous D2D and Cellular Networks
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5 Computation Offloading with Virtual Resources Management in Mobile Edge Network
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6 DQN-based Power Control for IoT Transmission against Jamming
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7 Estimation of Spatial Random Fields via Participatory Sensing with Unreliable Sensors
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8 Fulfillment of Service Level Agreements via Slice-Aware Radio Resource Management in 5G Networks
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20 Preliminary Analysis of Mobile Internet Shopping Behaviors
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21 QoE-aware Video Streaming Transmission Optimization Method for Playout Threshold Adjustment in LTE
Tomoaki Ohtsuki, Keio University

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22 RASI: Relay-Assisted Physical-Layer Key Generation in Unmanned Aerial Vehicles
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23 Relay Selection for Improved Security in Cognitive Relay Networks with Artifical Noise
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28 Uplink Resource Allocation in Cellular Networks with Energy-constrained UAV Relay
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2 A Low Communication Rate Distributed Inertial Navigation Architecture with Cellular Signal Aiding
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3 An Improved Method of Step Length Estimation with Inertial Sensors
Qian Zhao, Fujitsu Research and Development Center Co., Ltd.

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4 AOA Estimation with EM Lens-Embedded Massive Arrays
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5 Cellular Network Positioning Performance Improvements by Richer Device Reporting
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6 Gaussian Message Passing Based Passive Localization in the Presence of Receiver Detection Failures
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7 Localization of static remote devices using smartphones
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8 The Influence of the Fading Effect and Heterogeneous Device Problem to Wi-Fi Fingerprinting
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10. Vehicular Communications, Networks, and Telematics Papers

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1 ADePt: Adaptive Distributed Content Prefetching for Information-Centric Connected Vehicles
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3 Coordinated Scheduling for Aircraft In-Cabin LTE Deployment Under Practical Constraints
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4 Coverage Expansion through Dynamic Relay Vehicle Deployment in MmWave V2I Communications
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5 Efficient Machine-type Communication using Multi-metric Context-awareness for Cars used as Mobile Sensors in Upcoming 5G Networks
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6 Empowering Infotainment Applications:A Multi-Channel Service Management Framework for Cognitive Radio Enabled Vehicular Ad Hoc Networks
Rajith C. Abeywardana, The University of Auckland; Anonymous Account 4414, Anonymous Account 12651, Anonymous

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7 Ergodic Capacity Analysis of Wireless Transmission over Generalized Multipath/Shadowing Channels
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8 Evaluating RaptorQ-based content broadcasting strategies in vehicular environments
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9 Geometry Based Channel Models with Cross- And Autocorrelation for Vehicular Network Simulations
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10 Local End-to-End Paths for Low Latency Vehicular Communication
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11 Location-Based Scheduling in Cellular V2V Communication Systems
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12 Mobile relay for LTE: proof of concept and performance measurements
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13 Mobility Challenges for Unmanned Aerial Vehicles Connected to Cellular LTE Networks
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16 Novel Self-Calibration Procedures for Channel Characterization of Automotive Communication Cables in the GHz Range
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18 On The Capacity Bounds For Bumblebee-Inspired Connected Vehicle Networks Via Queuing Theory
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19 Optimal Scheduling for Multi-Hop Video Streaming with Network Coding in Vehicular Networks
Xiaoli Xu, Nanyang Technological University, Singapore; Yumeng Gao, Nanyang Technological University; Yong Zeng, National University of Singapore; Guan Yong Liang, Nanyang Technological University

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20 Radio Resource Allocation for Reliable Out-of-coverage V2V Communications
Taylan Sahin, Mate Boban, Huawei Technologies Duesseldorf GmbH, German Research Center

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21 Roadside Units Deployment in Hybrid VANETs with Synchronous Communication
Taís Rocha Silva, João Fernando Sarubbi, Flávio Vinicius Cruzeiro Martins, Centro Federal de Educação Tecnológica de Minas Gerais

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22 Stochastic Playback Delay Upper Bounds of Vehicular Video Content Delivery Networks with Cache-Enabled RSUs
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24 Wireless Hybrid Positioning Based on Surface Modeling with Polygon Support
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4 GECM: A Novel Green Wave Band Based Energy Consumption Model for Electric Vehicles
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6 Potential Field Based Inter-UAV Collision Avoidance Using Virtual Target Relocation
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7 Robust Detection of Anomalous Driving Behavior
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8 Using Convolutional Networks for Distance Estimation between DSRC Equipped Vehicles
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3 Power Control and Trajectory Design for UAV-assisted Communications
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4 Reliable and Privacy-preserving Task Recomposition for Crowdsensing in Vehicular Fog Computing
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5 Towards Semantic Object Discovery for Vehicular Named Data Networks
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