

# VTC2010-Spring Accepted Paper List

## Ad-Hoc and Sensor Networks

27206

### 1 A Complexity Adjustable Scheduling Algorithm for Throughput Maximization in Clusterized TDMA Networks

Arash Tahmasebi Toyserkani, Mohammad Reza Khanzadi, Erik G. Ström, Chalmers University of Technology; Arne Svensson, Chalmers

89575

### 2 A Cross-Layer Design Based on Geographic Information for Cooperative Wireless Networks

Teck Aguilar, Mohamed Chedly Ghedira, Telecom Sud Paris; Syue-Ju Syue, National Tsing Hua University; Vincent Gauthier, Hossam Afifi, Telecom Sud Paris; Chin-Liang Wang, National Tsing Hua University

49801

### 3 A decentralized collaborative receive beamforming technique for wireless sensor networks

Slim Zaidi, INRS-EMT; Keyvan Zarifi, INRS-EMT, University of Quebec; Sofiene Affes, INRS-EMT; Ali Ghrayeb, Concordia University

48330

### 4 A Framework for Topology-Transparent Scheduling in Wireless Networks

Joan Sun, University of Hong Kong; VICTOR.O.K.Li, Ka-Cheong Leung, The University of Hong Kong

90318

### 5 A Novel Image Authentication Approach Using an Overlap-based Shared Secret for Collaborative Wireless Sensors

Tao Ma, Michael Hempel, University of Nebraska - Lincoln; Dongming Peng, University of Nebraska-Lincoln; Hamid Sharif, University of Nebraska - Lincoln

88592

### 6 A Reduced-Complexity Decentralized Positioning and Tracking Algorithm for Wireless Sensor Networks

Dong-Shing Wu, Chin-Liang Wang, National Tsing Hua University

24867

### 7 A Region-based Reporting Scheme for Mobile Sensor Networks

Vic Fu, Ting-Yu Wang, Phone Lin, National Taiwan University; Michael Fang, University of Florida

58751

### 8 A Simple and Regular Scheduling Algorithm in IEEE 802.16 Grid-based Mesh Networks

Jia-Ming Liang, Jen-Jee Chen, Ho-Cheng Wu, Yu-Chee Tseng, National Chiao-Tung University

88119

### 9 An Energy Efficient Clustering Scheme for Mobile Ad Hoc Networks

Minming Ni, Zhangdui Zhong, Hao Wu, Beijing Jiaotong University; Dongmei Zhao, McMaster University

76741

### 10 Analysis of Enhanced Deployment Models for Sensor Networks

Frank Oldewurtel, Petri Mahonen, RWTH Aachen University

46045

### 11 Asymptotic Connectivity of Large-Scale Wireless Networks with a Log-Normal Shadowing Model

Yujun Li, University of Electronic Science and Technology of China; Yaling Yang, Virginia Tech

85805

### 12 CAM: Congestion Avoidance and Mitigation in Wireless Sensor Networks

Mohammad Masumuzzaman Bhuiyan, Iqbal Gondal, Joarder Kamruzzaman, Monash University

29206

### 13 Certificate Revocation to Cope with False Accusations in Mobile Ad Hoc Networks

Kyul Park, Hiroki NISHIYAMA, Tohoku University; Nirwan Ansari, New Jersey Institute of Technology; Nei KATO, Tohoku University

27405

### 14 Common Opportunistic Routing and Forwarding

Anders Nilsson Plymoth, University of California, San Diego; Abhijeet Bhorkar, UCSD; Per Johansson, University of California, San Diego

77038

### 15 Continuous Object Detection and Tracking for Flexibility and Reliability in Sensor Networks

Bomi Park, Soochang Park, Euisin Lee, Chungnam National University; Sungkee Noh, Electronics and Telecommunications Research Institute; Sang-Ha Kim, Chungnam National University

50702

### 16 Delay Analysis of Enhanced Relay-Enabled Distributed Coordination Function

Rizwan Ahmad, Victoria University; Fu-Chun Zheng, The University of Reading; Micheal Driberg, Victoria University

21002

### 17 Destination-initiated Geographic Multicasting Protocol in Wireless Ad hoc Sensor Networks

Jeongcheol Lee, Euisin Lee, Soochang Park, Hosung Park, Sang-Ha Kim, Chungnam National University

76254

### 18 Distributed Signal Estimation Using Binary Sensors with Multiple Thresholds

Babak Moussakhani, Norwegian University of Science and Technology; Ilanko Balasingham, Tor Ramstad, NTNU

63500

### 19 Distributed TDoA Estimation for Wireless Sensor Networks Based on Frequency-Hopping in Multipath Environment

Weile Zhang, Qinye Yin, Xue Feng, Wenjie Wang, Xi'an Jiaotong University

87296

### 20 Dynamic Channel Reservation to Enhance Channel Access by Exploiting Structure of Vehicular Networks

Ray K. Lam, University of Illinois at Urbana-Champaign; P.R. Kumar, University of Illinois, Urbana-Champaign

46123

### 21 Efficiency of Distributed Compression and its Dependence on Sensor Node Deployments

Frank Oldewurtel, Janne Riihijärvi, Petri Mahonen, RWTH Aachen University

31130

### 22 Energy Optimization for Reliable Point-to-Point Communication in Energy-Constrained Networks

Felipe Miranda Costa, Hideki Ochiai, Yokohama National University

90810

### 23 Energy-efficient Adaptive Transmission Scheme in a Correlated Wireless Sensor Network

Jaehyun Park, KAIST; Joohwan Chun, Korea Advanced Institute of Science and Technology

10435

**24 Energy-Efficient Greedy Forwarding Protocol for Wireless Sensor Networks**

Bighnaraj Panigrahi, Indian Institute of Technology, Delhi; Swades De, Indian Institute of Technology Delhi; B. S. Panda, IIT Delhi; J.-D. Lan Sun Luk, Universite de la Reunion

66011

**25 Energy-Efficient Scheduling for Multiple-target Coverage in Wireless Sensor Networks**

SungYeop Pyun, Korea Advanced Institute of Science and Technology; Dong-Ho Cho, KAIST

31168

**26 Event Suppression for Safety Message Dissemination in VANETs**

Martin Koubek, Susan Rea, Dirk Pesch, Cork Institute of Technology

36234

**27 Experimental Comparison of Dynamic Spectrum Access Techniques for Wireless Sensor Networks**

Luca Stabellini, Royal Institute of Technology (KTH); Muhammad Umar Javed, The Royal Institute of Technology

57903

**28 High Rate Support in IEEE 802.15.4 Based Wireless Sensor Networks Using Cooperative Diversity**

Yasser Gadallah, UAE University; Mohamed Hossam Ahmed, Memorial University of Newfoundland; Abdulazeez Salami, Memorial University

42706

**29 Improving Energy Efficiency in QoS-Enabled Wireless Sensor Networks**

Liqi Shi, Abraham Fapojuwo, University of Calgary

29639

**30 Iterative Cooperation DV-Hop Localization Algorithm in Wireless Sensor Networks**

Hongtao Zhang, Beijing University of Posts and Telecommunications; Shuai Xu, BUPT

64824

**31 Linear Regression-Based Delay-Bounded Routing Protocol for Vehicular Ad Hoc Networks**

Yuh-Shyan Chen, Department of CSIE, National Taipei University; Chih-Shun Hsu, Shih Hsin University; Yi-Guang Siao, National Taipei University

69298

**32 Location-Aware Relay Selection Scheme in Opportunistic Relay Communications**

Jing Hu, Wang Xiaoxiang, Hongtao Zhang, Beijing University of Posts and Telecommunications

85467

**33 Low-Complexity Channel Estimation for Cooperative Wireless Sensor Networks Based on Data Selection**

Tong Wang, Rodrigo de Lamare, Paul D. Mitchell, University of York

64382

**34 Max-Min Fair Throughput in Multi-Gateway Multi-Rate Mesh Networks**

Dirk Staehle, Barbara Staehle, Rastin Pries, University of Wuerzburg

## **Antennas and Propagation**

15400

**1 3-D Geometry-based Statistical Modeling of Cross-Polarization Discrimination in Wireless MIMO Channels**

Seok-Chul Kwon, Georgia Institute of Technology; Gordon Stüber, Georgia Tech

30194

**35 Network Status Detection-Based Dynamic Adaptation of Contention Window in IEEE 802.11p**

Hung-Chin Jang, Wen-Chieh Feng, National Chengchi University

24628

**36 One-bit Quantizer Design for Distributed Estimation under the Minimax Criterion**

Tao Wu, Qi Cheng, Oklahoma State University

84385

**37 Optimization of Linear Wireless Sensor Networks for Serial Distributed Detection Applications**

Gernot Fabeck, Rudolf Mathar, RWTH Aachen University

12355

**38 Outage Analysis of Multi-Antenna DF Relay Systems with Finite Feedbacks over Nakagami-m Fading Channels**

Zhen Liu, Beijing University of Posts and Telecommunications; Xiaoxiang Wang, Hongtao Zhang, Song Zhenfeng, Beijing University of Posts and Telecommunications

27440

**39 PipelineOR: A Pipelined Opportunistic Routing Protocol with Network Coding in Wireless Mesh Networks**

Yu-Jen Lin, Computer Science; Chen-Che Huang, Jiun-Long Huang, National Chiao Tung University

78600

**40 Reducing the Calculation for Precise Localization in Wireless Sensor Networks**

Alexander Born, University of Rostock

20207

**41 Robust Geographic Routing with Virtual Destination based Void Handling for MANETs**

Shengbo Yang, A/P Chai Kiat Yeo, A/P Bu Sung Lee, Nanyang Technological University

24934

**42 Routing Path Selection and Power Allocation for Distributed Detection in Wireless Sensor Networks**

Daniel Bielefeld, RWTH Aachen University

53240

**43 Scheduling for MIMO Networks with Rate-Constrained Connectivity Requirements**

Jiang Feng, University of California, Irvine; A. Lee Swindlehurst, The University of California at Irvine; Jianqi Wang, Purdue University

56012

**44 Streetcast: A Broadcast Protocol for Urban Vehicular Ad-Hoc Networks**

Chih-Wei Yi, Yi-Ta Chuang, Hou-Heng Yeh, National Chiao Tung University; Yu-Chee Tseng, National Chiao-Tung University; Pin-Chuan Liu, Industrial Technology Research Institute

15919

**45 VERGILIUS: A Scenario Generator for VANET**

Eugenio Giordano, University of California, Los Angeles; Enzo De Sena, King's College London; Giovanni Pau, Mario Gerla, UCLA

98276

**2 60GHz Radio Channel Measurements and Modeling in a Shielded Room**

Mikko Kyrö, Aalto University School of Science and Technology; Jarno Simola, Katsuyuki Haneda, Helsinki University of Technology (TKK); Sylvain Ranvier, Pertti Vainikainen, Helsinki University of Technology; Kenichi Takizawa, NICT

50590

**3 A Dual-link Capacity Analysis of Measured Time-Variant Radio Indoor Channels**

Veli-Matti Kolmonen, Helsinki University of Technology; Katsuyuki Haneda, Helsinki University of Technology (TKK); Juho Poutanen, TKK Helsinki University of Technology; Fredrik Tufvesson, Lund University; Pertti Vainikainen, Helsinki University of Technology

50599

**4 A measurement based approach to spatially predict the orthogonality factor of the UMTS downlink**

Juergen Beyer, Heinz Droste, Deutsche Telekom

82674

**5 A novel sampling method for the spatial frequencies of sinusoid-based shadowing models**

Siegfried Klein, Bell Labs Germany; Serkan Uygungelen, Universitat Stuttgart; Christian M. Mueller, Universitat Stuttgart

45970

**6 A Wideband Space Time Statistical Model for Characterization of Satellite Communication Channel in Dense Multipath Environment**

Songtao Lu, Beihang University

43148

**7 Analysis of Local Quasi-Stationarity Regions in an Urban Macrocell Scenario**

Adrian Ispas, RWTH Aachen University; Christian Schneider, Technische Universitat Ilmenau; Gerd Ascheid, RWTH Aachen University; Reiner Thoma, Technische Universitat Ilmenau

54740

**8 Cauchy Angular Distribution for Clustered Radio Propagation SIMO Channel Model**

Xin Li, Torbjorn Ekman, Norwegian University of Science and Technology

15305

**9 Design and Simulation of Indoor Radio Propagation Channels Under LOS and NLOS Scattering Conditions**

Yuanyuan Ma, University of Agder

82643

**10 Dual-Band Channel Measurements for an Advanced Tyre Monitoring System**

Gregor Lasser, Vienna University of Technology; Christoph F. Mecklenbrauker, Technische Universitat Wien

49206

**11 Empirical Time-Spatial Propagation Formula for Outdoor NLOS and LOS Environments**

Teruya Fujii, BB Mobile; Hideki Omote, Softbank Telecom; Yoshichika Ohta, Softbank Telecom Corp.

32369

**12 Extension of the dRET Model to include Scattering from Tree Trunks in Microcell Urban Mobile Scenarios**

Rafael F. S. Caldeirinha, Polytechnic Institute of Leiria, Instituto de Telecomunikacoes; Telmo Fernandes, University of Glamorgan; Nuno Leonor, David Ferreira, Instituto de Telecomunikacoes

39673

**13 Higher order MIMO outdoor-to-indoor measurements using repeaters**

Mikael Coldrey, Patrik Persson, Ericsson Research; Tommy Hult, Lund University; Andreas Wolfgang, Chalmers

14053

**14 Impulse Response Model and Parameter for Indoor Channel Modeling at 60GHz**

Hirokazu Sawada, Tohoku University

81088

**15 Inducing Spatial Correlation on MIMO Channels: a Distribution-Free Efficient Technique**

Antonio Petrolino, INESC-ID Lisbon/Instituto Superior Tecnico Lisbon; Gonalo Tavares, INESC-ID Lisbon / IST Lisbon

49247

**16 Interference Limited MIMO Measurements**

Stephan Jaeckel, Fraunhofer Heinrich Hertz Institute; Lars Thiele, Fraunhofer Institute for Telecommunications, Heinrich-Hertz-Institut; Volker Jungnickel, Fraunhofer Institute for Telecommunications

66417

**17 Joint Direction Finding and Propagation Delay**

**Estimation in the Presence of Mutual Coupling**

Chun-Hung Lin, National Taiwan University of Scientific and Technology; Wen-Hsien Fang, National Taiwan University of Science and Technology; Van-Khang Vu, National Taiwan University of Scientific and Technology; Yie-Tarnng Chen, National Taiwan University of Science and Technology

73895

**18 Large Scale Parameter for the WINNER II Channel Model at 2.53 GHz in Urban Macro Cell**

Christian Schneider, Milan Narand?i?, Martin Kaske, Gerd Sommerkorn, Reiner Thoma, Technische Universitat Ilmenau

16934

**19 Maximum Averaged Likelihood Estimation Tree for Passive Localization Exploiting IR-UWB Multipaths**

Vincenzo La Tosa, Benot Denis, CEA-Leti Minattec; Bernard Uguen, IETR / CNRS / Universite Rennes-I

79510

**20 MIMO System Performance Evaluation of a 4-port**

**Antenna in Indoor Environment for WiMAX Application**

Lee Ming, Yu-Chun Lu, Li-Han Tu, National Taiwan University; Yi-Cheng Lin, Department of Electrical Engineering; Shun-Chang Lo, Gene C.-H. Chuang, Industrial Technology Research Institute; Ding-Bing Lin, National Taipei University of Technology; Hsueh-Jyh Li, National Taiwan University

44150

**21 Multi-polarized Channel Statistics for Outdoor-to-Indoor and Indoor-to-Indoor Channels**

Ali Panahandeh, Franois Quitin, Jean-Michel Dricot, Universite Libre de Bruxelles; Francois Horlin, ULB; Claude Oestges, Universite Catholique de Louvain (UCL); Philippe De Doncker, Universite Libre de Bruxelles

56604

**22 Multiple-Links NLoS Error Evaluations for Geolocation Channel Modelling**

Wei Wang, German Aerospace Center (DLR); Thoma Jost, German Aerospace Center

30104

**23 Optimization of ARMA(p,q) models for SISO Multipath Fading Channel Simulation With Arbitrary Correlation**

Manuel Diogo Mera, Instituto de Engenharia de Sistemas e Computadores(INESC-ID); Gonalo Tavares, INESC-ID Lisbon / IST Lisbon

70380

**24 Simulating the Mobile Channels for Directional Scenarios by the Inverse Discrete Fourier Transform Method**

Jinyun Ren, Rodney G. Vaughan, Simon Fraser University

20295

**25 Simulation and Evaluation of Car-to-Car Communication Channels in Urban Intersection Scenarios**

Lars Reichardt, Christian Sturm, University of Karlsruhe; Thomas Zwick, Karlsruhe Institute of Technology

98812

**26 UWB Antenna Design for Short-Range Underwater Communications**

Zoubir Irahauten, Geert Leus, Delft University of Technology

# Cognitive Radio and Cooperative Communications

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## 1 A Cooperative Graph Approach for Cooperative Routing in Delay-Sensitive Systems

Kim Yung Lam, Wai Pan Tam, Lok Tat-Ming, The Chinese University of Hong Kong

68590

## 2 A New Pulse for CR-UWB Using Multiple Modified TDCS

Shubin Wang, Inner Mongolia University; Zheng Zhou, Beijing University of Posts and Telecommunications; Kyungsup Kwak, Inha University; Weixia Zou, Beijing University of Posts and Telecommunications

21218

## 3 A Novel Adaptive Cooperative MAC Protocol for Wireless LANs

Song Zhenfeng, Wang Xiaoxiang, Hongtao Zhang, Beijing University of Posts and Telecommunications; Zhen Liu, Beijing University of posts and telecommunications

40184

## 4 A Novel Hybrid Relaying Scheme Using Multilevel Coding

Yinan Qi, University of Surrey; Reza Hoshyar, Mobile Group,CCSR, University of Surrey; Professor Rahim Tafazolli, University of Surrey

34731

## 5 A Novel Semi-Coordinated Multi-Point Strategy in Cellular Networks

Huacheng Zeng, Wenbo Wang, Beijing University of Posts and Telecommunications

23285

## 6 A Practical Semi Range-Based Localization Algorithm for Cognitive Radio

Zaili Wang, FENG Zhiyong, Beijing University of Posts and Telecommunications

76561

## 7 A Reliability-Based Detection Algorithm for MIMO Relay System

Rui Gao, Kai Wu, Beijing University of Posts and Telecommunications

21384

## 8 A Return and Risk Model for Efficient Spectrum Sharing in Cognitive Radio Networks

Miao Pan, Hao Yue, Michael Fang, University of Florida; Phone Lin, National Taiwan University

92697

## 9 A Wideband RF Frontend for Software Defined Radio

Abhinav Kumar Tyagi, Indian Institute of Technology, Kharagpur; R. V. Raja Kumar, IIT Kharagpur, India

59896

## 10 Adaptive Pricing for Efficient Spectrum Sharing in MIMO Systems

Bhargav Kollimarla, Qi Cheng, Oklahoma State University

85561

## 11 Adaptive Wavelet Modulation for Cognitive Radio

Marco Lixia, University of Cagliari; Maurizio Murrone, DIEE, University of Cagliari

45050

## 12 An ARQ Mechanism with a Priority Based Resource Allocation in Cognitive Radio Systems

Jeon Sooyong, KAIST

19153

## 13 An Interweave Cognitive Radio System Based on the Hierarchical 2D-Spread MC-DS-CDMA With Transmission Power Control

Chih-Wen Chang, National Cheng Kung University; Chien-Cheng Kuo, National Cheng-Kung University

68336

## 14 Antenna Correlation Based Spectrum Sensing in Cognitive Radio Systems

Joong-Hyup Lee, Dong-Chan Oh, Yong-Hwan Lee, Seoul National University

45317

## 15 Cascaded Resource Allocation among Prioritized Shared Spectrum Blocks

Jeounglak Ha, ETRI; Jin-Up Kim, Electronics and Telecommunications Research Institute; Sang-Ha Kim, Chungnam National University

53010

## 16 Channel Estimation Based on Pilot Frequency Division Multiplexing for Distributed Space-Frequency Coded Cooperative Communication System

Xiaofan Yu, Chunming Zhao, Chun Pan, Southeast University

61577

## 17 Channel-Aware Transmission Control for Cooperative Random Access Networks

Shu-Hsien Wang, An-Dee Lin, Yao-Win Peter Hong, National Tsing Hua University

80786

## 18 Collaborative Change Detection for Efficient Spectrum Sensing in Cognitive Radio Networks

Teng-Cheng Hsu, National Tsing Hua University, Taiwan; Tsang-Yi Wang, National Sun Yat-Sen University; Yao-Win Peter Hong, National Tsing Hua University

87800

## 19 Collaborative Spectrum Sensing in Cognitive Radio Vehicular Ad hoc Networks: Belief Propagation on Highway

Husheng Li, University of Tennessee; David K. Irick, The University of Tennessee

13593

## 20 Cooperative Correlation Based Spectrum Sensing for DMB-T Systems

Jiajun Li, Zhenhui Tan, Shaoyi Xu, Haibo Wang, Beijing Jiaotong University

31518

## 21 Cooperative Diversity with Fast HARQ for Delay-Sensitive Flows

Yao-Liang Chung, Zsehong Tsai, National Taiwan University

25973

## 22 Cooperative Feedback in Multi-Antenna Cognitive Networks

Kaibin Huang, Yonsei University; Rui Zhang, Institute for Infocomm Research

13307

## 23 Cooperative Hybrid ARQ in Wireless Decode-and-Forward Relay Networks

Wei Ni, Zhuo Chen, Iain B. Collings, CSIRO

63885

## 24 Cooperative MISO and Relay Comparison in Energy Constrained Wireless Sensor Networks

Tuan-Duc Nguyen, University of Rennes - IRISA; Olivier BERDER, Olivier Sentieys, University of Rennes (ENSSAT) - IRISA

13369

**25 Cooperative Spectrum Sensing in Cognitive Radio Networks With Weighted Decision Fusion Scheme**

Edward Chu Yeow Peh, Ying-Chang Liang, Institute for Infocomm Research; Yong Liang Guan, Nanyang Technological University; Yonghong Zeng, Institute for Infocomm Research

81690

**26 Cooperative Spectrum Sensing in Cognitive Radio under Noise Uncertainty**

Haijun Wang, Yi Xu, Xin Su, Jing Wang, Tsinghua University

80373

**27 Cooperative Spectrum Sensing with Wavelet Denoising in Cognitive Radio**

Haijun Wang, Yi Xu, Xin Su, Jing Wang, Tsinghua University

28903

**28 Cross-layer Flow Control and Dynamic Resource Allocation in overlay Cognitive Radio Networks**

Tao Lin, Xin Zhang, Qi Zheng, Qun Pan, Beijing University of Posts and Telecommunications

55475

**29 Cyclostationarity Based Multi-Antenna Spectrum Sensing in Cognitive Radio Networks**

Guohui Zhong, Jiaming Guo, Zhen Zhao, Daiming Qu, Huazhong University of Science and Technology

47070

**30 Cyclostationary Feature Based Quickest Spectrum Sensing in Cognitive Radio Systems**

Husheng Li, University of Tennessee

76111

**31 Decentralized Base Station Processing for Multiuser MIMO Downlink CoMP**

Winston W. L. Ho, Tony Q.S. Quek, Sumei Sun, Institute for Infocomm Research

24486

**32 Decentralized Cooperative Spectrum Sensing for Ad-hoc Disaster Relief Network clusters**

Nuno Pratas, CTIF- Aalborg University; Nicola Marchetti, Aalborg University; Dr. Neeli R. Prasad, Center for Teleinfrastruktur, Aalborg University; Antonio Rodrigues, Instituto de Telecomunicações, Portugal; Ramjee Prasad, University of Aalborg/CTIF, Denmark

76640

**33 Decentralized Reduced-Rank Multiuser Relaying for Cooperative Uplink CDMA Networks**

Wan-Jen Huang, National Sun Yat-Sen University; Yung-Shun Wang, Yao-Win Peter Hong, Tsung-Hui Chang, National Tsing Hua University

72097

**34 Decode-and-Forward Based Cooperative Transmission Schemes for a Relay with Multiple Receive Antennas**

Chang Kyung Sung, Iain B. Collings, CSIRO

49330

**35 Defending Against Hit-and-run Attackers in Collaborative Spectrum Sensing of Cognitive Radio Systems**

Husheng Li, University of Tennessee; Evan Noon, The University of Tennessee

84714

**36 Distortion Behavior of Amplify-and-Forward Cooperative System with Layered Broadcast Coding**

Ubolthip Sethakaset, Tony Q.S. Quek, Sumei Sun, Poramate Tarasak, Institute for Infocomm Research

89953

**37 Distributed Convolutional-Coded Differential Space-Time Block Coding for Cooperative Communications**

Soon Xin Ng, Yang Wang, Lajos Hanzo, University of Southampton

19946

**38 Distributed Relay Selection Scheme in Decode-and-Forward Cooperative Systems**

Yinsheng Li, City University of Hong Kong; Q.T. Zhang, City University of HK

20187

**39 Distributed Spectrum Sharing Algorithm Design and Realization**

Binyang XU, Alcatel-Lucent Shanghai Bell; Jigang QIU, Feng YANG, Alcatel Shanghai Bell

92384

**40 Diversity and Delay-Limited Throughput Analysis for the Effective Cooperative ARQ Protocols with Opportunistic Distributed Space-Time Coding**

Hsin-Li Chiu, Sau-Hsuan Wu, Jin-Hao Li, National Chiao Tung University

66317

**41 Double-Threshold Digital Relaying for Cooperative Wireless Networks**

Kuang-Hao (Stanley) Liu, National Cheng Kung University

16336

**42 Evaluation of Spectrum Occupancy in Amsterdam Using Mobile Monitoring Vehicles**

Roel Schiphorst, Cornelis H. Slump, University of Twente

17291

**43 Generalized Joint Linear Channel Coding and Physical Network Coding for Two-way Relay Channels**

Yidong Lang, Dirk Wübben, University of Bremen

38359

**44 Half-Duplex Relaying with Serially-Concatenated Low-Density Generator Matrix (SCLDGM) Codes**

Yusuke Kumano, Tomoaki Ohtsuki, Keio University

45707

**45 Image-band Interference Cancellation for Multi-mode/band Receivers with Baseband AGC**

Ke Liu, Graduate School of Informatics, Kyoto-University; Satoshi Denno, Kyoto University; Tatsuo Furuno, Research Laboratories, NTT DOCOMO, INC.; Masahiro Morikura, Graduate School of Informatics, Kyoto-University

36194

**46 Impact of Local-Oscillator Imperfections on Nonregenerative TDD and FDD Relaying**

Stefan Berger, ETH Zurich; Armin Wittneben, Swiss Federal Institute of Technology (ETH) Zurich

92055

**47 Interference Mitigation Using Power Control in Cognitive Radio Networks**

Mohamed Elalem, Lian Zhao, Zaiyi Liao, Ryerson University

79489

**48 Interference Protection in Cognitive Radio Networks**

Mohammad Iqbal Bin Shahid, Joarder Kamruzzaman, Monash University

81096

**49 Joint Channel Assignment and Routing in Cognitive Radio-Based Wireless Mesh Networks**

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

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**50 Joint Overlay and Underlay Power Allocation Scheme for OFDM-based Cognitive Radio Systems**

Gaurav Bansal, The University of British Columbia; Olivier Duval, École Polytechnique de Montréal; Vijay K. Bhargava, University of British Columbia; Francois Gagnon, Ecole de Technologie Supérieure

58070

**51 Joint Subcarrier and Power Allocation for an OFDMA Relay Network with Multicells**

Dongwook Choi, Dongwoo Lee, Jae Hong Lee, Seoul National University

38939

**52 Linear MMSE Transceiver Design with Quality-of-Service Constraints in Amplify-and-Forward MIMO Relay Systems**

Fan-Shuo Tseng, Guo-Luen Ke, Wen-Rong Wu, National Chiao-Tung University

71231

**53 Markov-based Optimal Access Probability for Dynamic Spectrum Access in Cognitive Radio Networks**

Yanjun Yao, Beijing University of Posts and Telecommunications; Dan Miao, Beijing University of Posts and Telecommunications; FENG Zhiyong, Beijing University of Posts and Telecommunications

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**54 MMSE-SIC Transceiver Design in Amplify-and-Forward MIMO Relay Systems**

Fan-Shuo Tseng, Wen-Rong Wu, National Chiao-Tung University

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**55 Multiple Access Scheme for Multi User Cognitive Radio based on wavelet transforms**

Manju Mathew, Annamalai Benjamin Premkumar, Chiew Tong Lau, Nanyang Technological University

15842

**56 Multiple-Relay Aided Distributed Turbo Coding Assisted Differential Unitary Space-Time Spreading for Asynchronous Cooperative Networks**

Shinya Sugiura, Soon Xin Ng, Lingkun Kong, University of Southampton; Sheng Chen, Univ. of Southampton; Lajos Hanzo, University of Southampton

57078

**57 Novel Cooperative Schemes on Spectrum Sensing in Multi-primary-user Cognitive Radio Network**

Jingdi Liu, Ruiming Zheng, Qun Pan, Xin Zhang, Dacheng Yang, Beijing University of Posts and Telecommunications

24512

**58 On Asynchronous OFDM Implementation for Cognitive Radio**

Meng Wah, Ying-Chang Liang, Institute for Infocomm Research

59653

**59 On Joint Adaptive Modulation and Power Control for Cognitive Radios in an Interference Channel**

Chin Choy Chai, Institute for Infocomm Research

77118

**60 On Power and Rate Adaptation for Cognitive Radios in Interference Channels**

Chin Choy Chai, Institute for Infocomm Research

28524

**61 On QoS Routing in Wireless Ad-Hoc Cognitive Radio Networks**

Yean-Fu Wen, National Chiayi University; Wanjiun Liao, National Taiwan University

56617

**62 Optimal Power Allocation for Relayed Transmission Through A Mobile Relay Node**

Kenan Zhou, Lok Tat-Ming, The Chinese University of Hong Kong

43871

**63 Optimal Resource Allocation for Cognitive Radio Networks with Imperfect Spectrum Sensing**

Kejian Wu, Wei Wang, Luo Haiyan, Guanding Yu, Zhang Zhaoyang, Zhejiang University

29837

**64 Optimization of Linear Collaborative Spectrum Sensing with Genetic Algorithms**

Michele Sanna, Maurizio Murrone, DIEE, University of Cagliari

47586

**65 Optimization of Sensing Parameters for Cooperative Spectrum Sensing in Cognitive Radio Systems**

Jingqun Song, BUPT; FENG Zhiyong, Beijing University of Posts and Telecommunications; Jiantao Xue, BUPT

32085

**66 Outage Bound Analysis in Relay-Assisted Inter-Vehicular Communications**

Zhaoxun Li, Hanying Hu, Longzhen Jia, Feng Li, Information Science & Technology College

62789

**67 Outage Performance of Dual-Hop Relay Network with Co-Channel Interference**

Shaohua Chen, Beijing University of Post and Telecommunications; Xin Zhang, Fang LIU, Dacheng Yang, Beijing University of Posts and Telecommunications

35205

**68 Outage Probability of OFDM-Based Relay Networks with Relay Selection**

Jae Cheol Park, Tan Tai Do, Yun Hee Kim, Kyung Hee University

54656

**69 Outage Probability of Selection Cooperation with Channel Estimation Errors**

Mehdi Seyfi, Sami (Hakam) Muhaidat, Jie Liang, Simon Fraser University

41289

**70 Partner Selection and Power Control for Asymmetrical Collaborative Networks**

Weisi Guo, Ioannis Chatzigeorgiou, Ian J. Wassell, University of Cambridge; Rolando Carrasco, University of Newcastle

98011

**71 Partner Selection Based on IDMA Superposition Modulation in Cooperative Cellular Networks**

Wang Xiaoxiang, Hongtao Zhang, Beijing University of Posts and Telecommunications

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**72 Performance Analysis of Multiple-Relay Cooperative Networks over Nakagami-m Fading Channels**

Zhen Liu, Beijing University of posts and telecommunications; Wang Xiaoxiang, Hongtao Zhang, Song Zhenfeng, Beijing University of Posts and Telecommunications

36228

**73 Performance Analysis of Optimum Switching Adaptive L-QAM for Relay Selection Decode-and-Forward Cooperative Diversity Networks**

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