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VTC2012-Fall Technical Program

Tuesday 4 September 2012

Tuesday 4 September 2012 11:00-12:30 2103

1A: Localization and Tracking

Tuesday 4 September 2012 11:00-12:30 207

1B: Network Topology

Tuesday 4 September 2012 11:00-12:30 2105

1C: Dynamic Spectrum Access

Tuesday 4 September 2012 11:00-12:30 2101

1D: Precoding for Cooperation

Tuesday 4 September 2012 11:00-12:30 206B

1E: Femto I

Joint Macro and Femto Field Performance and Interference Measurements 96
Niels Terp Kjeldgaard Jørgensen, Aalborg University, Denmark; Tero Isotalo, Tampere University of Technology, Finland; Klaus Ingemann Pedersen, Nokia Siemens Networks, Denmark; and Preben Elgaard Mogensen, Aalborg University, Denmark

Distributed Cooperative Q-learning for Power Allocation in Cognitive Femtocell Networks. 101
Hussein Saad, Nile University, Egypt; Amr Mohamed, Qatar University, Qatar; and Tamer ElBatt, Nile University, Egypt

MCS and Sub-band Selection for Downlink Interference Coordination in LTE-A Femtocells 106
Olga Muñoz-Medina, Universitat Politècnica de Catalunya (UPC), Spain; Adrián Agustín, Universitat Politècnica de Catalunya (UPC), Spain; and Josep Vidal, Universitat Politècnica de Catalunya (UPC), Spain

Resource Block Assignment for Interference Avoidance in Femtocell Networks 111
Yu-Shan Liang, National Taiwan University, Taiwan; Wei-Ho Chung, Academia Sinica, Taiwan; Chia-Mu Yu, National Taiwan University, Taiwan; Chung-Hsiu Chung, Institute for Information Industry, Taiwan; Chih-Hsiang Ho, Institute for Information Industry, Taiwan; Sy-Yen Kuo, National Taiwan University, Taiwan; and Hongke Zhang, Beijing Jiaotong University, China

Cluster-based Resource Allocation for Interference Mitigation in LTE Heterogeneous Networks 116
Hao Tang, USTC, China; Peilin Hong, USTC, China; Kaiping Xue, USTC, China; and Jinlin Peng, USTC, China

Tuesday 4 September 2012 11:00-12:30 2104A

1F: Detection and Estiation I

Tone Interference Estimation for OFDM Systems Using a Frequency Domain DFT 121
Dongwoon Bai, Samsung, United States; Heejin Roh, Samsung, United States; and Jungwon Lee, Samsung, United States

Efficient Inverse Cholesky Factorization for Alamouti Matrices in G-STBC and Alamouti-like Matrices in OMP 126
Hufei Zhu, Huawei Technologies Co. Ltd., China; Ganghua Yang, Huawei Technologies Co. Ltd., China; and Wen Chen, Shanghai Jiao Tong University, China

Low-complexity Rotated QAM Demapper for the Iterative Receiver Targeting DVB-T2 Standard 131
YouZhe Fan, The Hong Kong University of Science and Technology, Hong Kong; and Chi-ying Tsui, The Hong Kong University of Science and Technology, Hong Kong

On Subspace Noise Estimation for OFDM 136
Afshin Haghighat, InterDigital Communications LLC, Canada

Effects of Arbitrarily Spaced Subcarriers on Detection Performance in OFDM Radar 140
Johannes Fink, Karlsruhe Institute of Technology, Germany; Martin Braun, Karlsruhe Institute of Technology, Germany; and Friedrich Jondral, Karlsruhe Institute of Technology, Germany

Tuesday 4 September 2012 11:00-12:30 208AB

1G: Mobility and Vehicle Traffic Models

Efficient Floating Car Data Transmission via LTE for Travel Time Estimation of Vehicles 145
Christoph Ide, TU Dortmund University, Germany; Timo Knaup, University Duisburg-Essen, Germany; Brian Niehoefer, TU Dortmund University, Germany; Daniel Weber, University Duisburg-Essen, Germany; Lars Habel, University Duisburg-Essen, Germany; Michael Schreckenberg, University Duisburg-Essen, Germany; and Christian Wietfeld, TU Dortmund University, Germany

Vehicular Traffic Modeling Governed by Cellular Phone Trajectories 150
Ryan Neighbour, University of Manitoba, Canada; Matthew Crowley, MTS Allstream, Canada; Shamir Mukhi, Canadian Network for Public Health Intelligence, Canada; M.R. Friesen, University of Manitoba, Canada; and R.D. McLeod, University of Manitoba, Canada

RF-based Traffic Detection and Identification 155
Amal Al-Husseiny, Egypt Japan University for Science and Technology (E-JUST), Egypt; and Moustafa Youssef, Alexandria University and E-JUST, Egypt

Estimation of Average Vehicle Speeds Traveling onHeterogeneous Lanes Using Bluetooth Sensors 160
Jorgos Zoto, University of Maryland, United States; Richard La, University of Maryland, United States; Masoud Hamedi, University of Maryland, United States; and Ali Haghani, University of Maryland, United States

Tuesday 4 September 2012 11:00-12:30 2000C

1P: Communications Posters

Scalable PHY-Layer Security for Distributed Detection in Wireless Sensor Networks 165
Reza Soosahabi, Louisiana State University, United States; and Mort Naraghi-Pour, Louisiana State University, United States

DYGES: A network-aware Generation-Based Network Coding for multicast flows 170
Youghourta Benfattoum, University of Paris-Sud, France; Steven Martin, University of Paris-Sud, France; and Khaldoun Al Agha, University of Paris-Sud, France

A new dynamic reservation protocol for many-to-one multi-access with long propagation delay 175
Priyatosh Mandal, Centre for Development of Telematics, India; and Swades De, Indian Institute of Technology Delhi, India

A DTN routing scheme for quasi-deterministic networks with application to LEO satellites topology 180
Rémi Diana, ISAE-TeSA / CNES / Thales Alenia Space, France; Emmanuel Lochin, Université de Toulouse, ISAE, TeSA, Toulouse, France; Cedric Baudoin, Thales Alenia Space, Toulouse, France; Emmanuel Dubois, CNES Toulouse, France; and Patrick Gelard, CNES Toulouse, France

Dynamic Clusters Graph for Detecting Moving Targets using WSNs 185
Farzaneh Razavi Armaghani, Monash University, Australia; Iqbal Gondal, Monash University, Australia; Joarder Kamruzzaman, Monash University, Australia; and David Green, Monash University, Australia

CATWOMAN: Implementation and Performance Evaluation of IEEE 802.11 based Multi-Hop Networks using Network Coding 190
Martin Hundebøll, Aalborg University, Denmark; Jeppe Ledet-Pedersen, Aalborg University, Denmark; Janus Heide, Aalborg University, Denmark; Morten V. Pedersen, Aalborg University, Denmark; Stephan A. Rein, Aalborg University, Denmark; and Frank H.P. Fitzek, Aalborg University, Denmark

A Scheme to Support Concurrent Transmissions in OFDMA based Ad Hoc networks 195
Hongyi Xiong, Queen Mary University Of London, United Kingdom; and Eliane Bodanese, Queen Mary University Of London, United Kingdom

Optimization of Energy Efficiency for OFDMA Femtocell Networks based on Effective Capacity 200
Zhenglei Huang, Hailun Xia, Zhimin Zeng, Beijing Key Laboratory of Network System Architecture and Convergence,Beijing University of Posts and Telecommunications, China; and Yinlong Liu, Institute of Acoustics,Chinese Academy of Sciences, China

Tuesday 4 September 2012 14:00-15:30 2103

2A: CFO and Synchronization

Tuesday 4 September 2012 14:00-15:30 207

2B: Resource Allocation for Multiple Access

Tuesday 4 September 2012 14:00-15:30 2105

2C: Network Coding

Tuesday 4 September 2012 14:00-15:30 2101

2D: Detection and Estiation II

Tuesday 4 September 2012 14:00-15:30 206B

2E: Vehicular Communications and Networking

Tuesday 4 September 2012 14:00-15:30 2104A

2F: Decode and Forward I

Tuesday 4 September 2012 14:00-15:30 208AB

2G: Network Deployment Aspects

Tuesday 4 September 2012 14:00-15:30 2000C

2P: Antennas and Signal Processing Posters

Tuesday 4 September 2012 16:00-17:50 2103

3A: Routing in Ad Hoc Networks

Tuesday 4 September 2012 16:00-17:50 207

3B: Antenna Design and Characterization

Tuesday 4 September 2012 16:00-17:50 2105

3C: Cognitive Radio Networks

Tuesday 4 September 2012 16:00-17:50 2101

3D: Two-way Relaying

Tuesday 4 September 2012 16:00-17:50 206B

3E: Wi-Fi

Tuesday 4 September 2012 16:00-17:50 2104A

3F: Precoding

Tuesday 4 September 2012 16:00-17:50 208AB

3G: Transportation Applications

Tuesday 4 September 2012 16:00-17:50 2000C

3P: Wireless Applications and Transportation Posters

Wednesday 5 September 2012

Wednesday 5 September 2012 11:00-12:30 2103

4A: Decode and Forward II

Iterative Slepian-Wolf Decoding and FEC Decoding for Compress-and-forward Systems 863
Yinan Qi, University of Surrey, United Kingdom; Muhammad Ali Imran, University of Surrey, United Kingdom; and Rahim Tafazolli, University of Surrey, United Kingdom

Data Detection for MIMO Broadcasting System with Decode-and-Forward Cooperation 868
Shih-Jung Lu, Academia Sinica, Taiwan; Wei-Ho Chung, Academia Sinica, Taiwan; and Chiao-En Chen, National Chung Cheng University, Taiwan

Outage Performance Of OFDM Ad-hoc Routing With and Without Subcarrier Grouping in Multihop Network 873
A. Gouissem, Qatar University, Qatar; M. O. Hasna, Qatar University, Qatar; R. Hamila, Qatar University, Qatar; H. Besbes, Sup'Com, University of Carthage, Tunisia; and F. Abdelkefi, Sup'Com, University of Carthage, Tunisia

Outage Analysis of Correlated Source Transmission in Block Rayleigh Fading Channels 878
Meng Cheng, Japan Advanced Institute of Science and Technology, Japan; Khoirul Anwar, Japan Advanced Institute of Science and Technology, Japan; and Tad Matsumoto, Japan Advanced Institute of Science and Technology, Japan

Physical Layer Network Coding with Channel and Delay Estimation 883
Yixin Li, University of Reading, United Kingdom; and Fu-Chun Zheng, University of Reading, United Kingdom

Wednesday 5 September 2012 11:00-12:30 207

4B: HetNet I

eICIC Functionality and Performance for LTE HetNet Co-Channel Deployments 888
Klaus Pedersen, Nokia Siemens Networks, Denmark; Yuanye Wang, Powerwave Technologies, United States; Beatriz Soret, University of Aalborg, Denmark; and Frank Frederiksen, Nokia Siemens Networks, Denmark

LTE HetNet Trial - Range Expansion including Micro/Pico Indoor Coverage Survey 893
Peter Ökvist, Ericsson Research, Sweden; and Arne Simonsson, Ericsson Research, Sweden

An Efficient Inter-cell Interference Coordination Scheme in Heterogeneous Cellular Networks 898
Yanlong Wang, Yongyu Chang and Dacheng Yang, Beijing University of Posts and Telecommunications, China

LTE Uplink CoMP Trial in a HetNet Deployment 903
Arne Simonsson, Ericsson Research, Sweden; and Tomas Andersson, Ericsson System &Technology, Sweden

Traffic Split Scheme Based on Common Radio Resource Management in an Integrated LTE and HSDPA Networks 908
Ruiming Yang, Yongyu Chang, Jia Sun and Dacheng Yang, Beijing University of Posts and Telecommunications, China

Wednesday 5 September 2012 11:00-12:30 2105

4C: LTE

A Novel OFDM Power Based Estimation for Dynamic Channels Tracking in Downlink LTE 913
Ali Kalakech, Univ Lille Nord de France, F-59000 Lille, IFSTTAR, LEOST, France; Loïc Brunel, Mitsubishi Electric R&D Center Europe, France; Marion Berbineau, Univ Lille Nord de France, F-59000 Lille, IFSTTAR, LEOST, France; and David Mottier, Mitsubishi Electric R&D Center Europe, France

Measurement and Prediction of Turbo-SIC Receiver Performance for LTE 918
Sofia Martinez Lopez, Orange Labs, France; Fabian Diehm, Technische Universität Dresden, Germany; Raphael Visoz, Orange Labs, France; and Baozhu Ning, Orange Labs, France

Indoor Experiments on 4-by-2 Multi-user MIMO Employing Various Transmitter Antenna Arrangements in LTE-Advanced Downlink 923
Yuichi Kakishima, NTT DOCOMO, INC., Japan; Teruo Kawamura, NTT DOCOMO, INC, Japan; Yoshihisa Kishiyama, NTT DOCOMO, INC., Japan; Hidekazu Taoka, DOCOMO Communications Laboratories Europe GmbH, Japan; Hidehiro Andoh, NTT DOCOMO, INC, Japan

Novel Method to Improve Control Channel Reliability in LTE-Advanced Heterogeneous Network 928
Yajun Zhu, DOCOMO Beijing Communications Laboratories Co., Ltd, China; Anxin Li, DOCOMO Beijing Communications Laboratories Co., Ltd, China; and Atsushi Harada, DOCOMO Beijing Communications Laboratories Co., Ltd, China

Power Efficient Pilot Symbol Power Allocation under Time-variant Channels 933
Michal Simko, Vienna University of Technology, Austria; Paulo S. R. Diniz, Universidade Federal do Rio de Janeiro, Brazil; Qi Wang, Vienna University of Technology, Austria; and Markus Rupp, Vienna University of Technology, Austria

Wednesday 5 September 2012 11:00-12:30 2101

4D: FEC

Low Complexity Progressive Edge-Growth algorithm based on Chinese Remainder Theorem 938
Xueqin Jiang, Donghua University, China; Papa Ousmance Thiaw Diagne, Donghua University, China; Moon Ho Lee, Chonbuk National University, Korea, Republic of; and Wujun Xu, Donghua University, China

Joint Maximum Likelihood and Expectation Maximization methods for Unsupervised Iterative Soft Bit Error Rate Estimation 943
samir saoudi, Telecom Bretagne, France; jia dong, Telecom Bretagne, France; and tarik Ait-Idir, INPT, Morocco

A Puncturing Scheme for Low-Density Parity-Check Codes Based on 1-SR Nodes 948
Lijun Zhang, Beijing Jiaotong Univ., China; Fuli Ma, Chinese Academy of Sciences, China; and L. L. Cheng, City Univ. of Hong Kong, Hong Kong

Adaptive trace-orthonormal STBC for MIMO system with capacity approaching FEC codes 954
Ammar El Falou, Telecom Bretagne, France; Charlotte Langlais, Telecom Bretagne, France; Charbel Abdel Nour, Telecom Bretagne, France; and Catherine Douillard, Telecom Bretagne, France

Hybrid Construction of Long LDPC Codes with Very Low Density 959
Lijun Zhang, Beijing Jiaotong Univ., China; Yanjing Zhang, Beijing Jiaotong Univ., China; and L. L. Cheng, City Univ. of Hong Kong, Hong Kong

Wednesday 5 September 2012 11:00-12:30 206B

4E: Energy Efficiency I

Energy-Efficiency based Resource Allocation for the Orthogonal Multi-user Channel 963
Fabien Heliot, University of Surrey, United Kingdom; Muhammad Ali Imran, University of Surrey, United Kingdom; and Rahim Tafazolli, University of Surrey, United Kingdom

Dynamic Cell Expansion: Traffic Aware Low Energy Cellular Network 968
Weisi Guo, University of Sheffield, United Kingdom; and Tim O'Farrell, University of Sheffield, United Kingdom

Analysis of Delay-Energy Tradeoff and Energy Minimization Schemes for Group-based Machine-to-Machine Communications in OFMDA Cellular Networks 973
Chieh Yuan Ho, National Chiao Tung University, Taiwan; and Ching-Yao Huang, National Chiao Tung University, Taiwan

An Iterative Water-filling Based Resource Allocation Scheme in OFDMA Systems for Energy Efficiency Optimization 978
Zhiyong Feng, Zhiqing Wei, Tianping Shuai, Qixun Zhang and Rong Li, Beijing University of Posts and Telecommunications, China

A Dynamic Energy Savings Scheme Based on Enhanced Mobility Load Balancing 983
Jinlin Peng, USTC, China; Peilin Hong, USTC, China; Kaiping Xue, USTC, China; and Hao Tang, USTC, China

Wednesday 5 September 2012 11:00-12:30 2104A

4F: Beamforming and Antenna Selection

Frequency-domain One-Tap Weight Control for Single-carrier Multiple Access with Multiple Antennas 988
Wei Peng, Tohoku University, Japan; Fumiyuki Adachi, Tohoku University, Japan; and Xiangyang Wang, Southeast Univeristy, China

Robust transmit beamforming for multigroup multicasting 993
Zhenyuan Chen, Wenyi Zhang and Guo Wei, University of Science and Technology of China, China

3 Hardware implementation of proposed antenna selection algorithm and its performance evaluation using received signals in field experiment 998
Kazuhiko Mitsuyama, Japan Broadcasting Corporation, Japan; Tetsuomi Ikeda, Japan Broadcasting Corporation, Japan; and Tomoaki Ohtsuki, Keio University, Japan

Orthogonality-Based User and Receive Antenna Selection for MIMO Broadcast Channels 1003
Xinlei Wang, Zhejiang University, China; Yabo Li, Zhejiang University, China; and Zhaoyang Zhang, Zhejiang University, China

Weighted MMSE Beamforming Design for Weighted Sum-rate Maximization in Coordinated Multi-Cell MIMO Systems 1008
Fan Sun, Aalborg University, Denmark; and Elisabeth de Carvalho, Aalborg University, Denmark

Wednesday 5 September 2012 11:00-12:30 2000C

4P: Multiple Antennas Posters

Ergodic Capacity of Multi-User MIMO Systems Using Pilot-Based Channel Estimation, Quantized Feedback and Outdated Feedback as well as User Selection 1013
Fan Jin, University of Southampton, United Kingdom; and Lajos Hanzo, University of Southampton, United Kingdom

Joint Optimization of Transmit Power and Codebook Size for Multiuser MISO Systems 1018
Xiaoming Chen, College of Electronic Information Engineering, Nanjing University of Aeronautics and Astronautics, China; Zhaoyang Zhang, Department of Information Science and Electronic Engineering, Zhejiang University, China; Lei Lei, College of Electronic Information Engineering, Nanjing University of Aeronautics and Astronautics, China; and Shaolei Chen, Department of Information Science and Electronic Engineering, Zhejiang University, China

Multi-Antenna Uplink Transmission for LTE-A 1023
yan Meng, Alcatel-Lucent Shanghai Bell, China; gang Shen, Alcatel-Lucent Shanghai Bell, China; jiyong Pang, Alcatel-Lucent Shanghai Bell, China; wei Wang, Alcatel-Lucent Shanghai Bell, China; feng Han, Alcatel-Lucent Shanghai Bell, China; and dongyao Wang, Alcatel-Lucent Shanghai Bell, China

A Differential Codebook Using 8-PSK Alphabets for Slowly Fading Channels 1028
Yeong Ju Kim, Chungbuk National University, South Korea

New Decoding Algorithms for Matrix C in the 802.16e WiMAX Standard 1032
Young Gil Kim, Univ. of Seoul, Korea, Republic of; and Norman Beaulieu, Univ. of Alberta, Canada

Successive Interference Cancelation via Rank-Reduced Maximum Likelihood Detection 1037
Hyukjoon Kwon, Samsung US R&D Center, United States; Jungwon Lee, Samsung US R&D Center, United States; and Inyup Kang, Samsung US R&D Center, United States

Prioritized Adaptive Modulation for MIMO-OFDM Using Pre-Ordered SIC 1042
Khaled Hassan, German University in Cairo, Egypt; and Khodr Saaifan, Jacobs University Bremen gGmbH, Germany

Successive Optimization Transmission for high and low SNR stations in Wireless LAN Systems 1047
Riichi Kudo, Koichi Ishihara, Tomoki Murakami, B. A. Hirantha Abeysekera, Yusuke Asai and Masato Mizoguchi, NTT Network Innovation Laboratories, Japan

Experimental results on the performance of Optical Spatial Modulation systems 1052
Enrique Poves, Wasiu Popoola, Harald Haas, John Thompson, University of Edinburgh, United Kingdom; and Daniel Cárdenas, Universidad San Francisco de Quito, Ecuador

Antenna Placement Designs for Distributed Antenna Systems with Multiple-Antenna Ports 1057
Changhee Lee, Korea University, South Korea; Eunsung Park, Korea University, South Korea; and Inkyu Lee, Korea University, South Korea

Efficient SVD-based Transmission Strategy against High-Speed Mobility in TDD MIMO Systems 1062
Lihua Li, Beijing University of Posts and Telecommunication, China; Qi Sun, Beijing University of Posts and Telecommunication, China; and Jin Jin, Beijing University of Posts and Telecommunication, China

Reduced-Complexity SFBC-OFDM for Vehicular Channels with High Mobility 1067
Ahmed Abotabl, Nile University, Egypt; Amr El-Keyi, Nile University, Egypt; Yahya Mohasseb, Nile University, Egypt; and tamer Elbatt, Nile University, Egypt

Adaptive Generalized Space Shift Keying (GSSK) Modulation for MISO Channels: A New Method for High Diversity and Coding Gains 1072
Konstantinos Ntontin, Telecommunications Technological Centre of Catalonia (CTTC), Spain; Marco Di Renzo, French National Center for Scientific Research (CNRS), France; Ana Perez-Neira, Telecommunications Technological Centre of Catalonia (CTTC), Spain; and Christos Verikoukis, Telecommunications Technological Centre of Catalonia (CTTC), Spain

Performance Evaluation of Reconfigurable MIMO Systems in Spatially Correlated Frequency-Selective Fading Channels 1077
Vida Vakilian, Ecole Polytechnique de Montreal, Canada; Jean-Francois Frigon, Ecole Polytechnique de Montreal, Canada; and Sebastien Roy, Laval University, Canada

An Interference Alignment Scheme for 60 GHz Millimeter-wave Communication System 1082
Jianxiong Zhao, Beijing University of Posts and Telecommunications, China; and Danpu Liu, Beijing University of Posts and Telecommunications, China

Novel Receive Diversity Scheme Using ESPAR Antenna and Arbitrary Frequency Band 1087
Wataru Arita, University of the Ryukyus, Japan; and Masato Saito, University of the Ryukyus, Japan

A Hybrid MMSE and K-Best Detection Scheme for MIMO Systems 1092
Cheng-Yu Hung, Academia Sinica, Taiwan; Ronald Y. Chang, Academia Sinica, Taiwan; and Wei-Ho Chung, Academia Sinica, Taiwan

OFDM Aided Space-Time Shift Keying for Dispersive Downlink Channels 1097
Marco Driusso, Università di Trieste, Italy; Fulvio Babich, Università di Trieste, Italy; Lajos Hanzo, University of Southampton, United Kingdom; and Mohammad Ismat Kadir, University of Southampton, United Kingdom

Performance of Multiuser MIMO-OFDM System with Fractional Sampling in Street Canyon Area 1102
Kenta Eguchi, Keio University, Japan; Mamiko Inamori, Keio University, Japan; and Yukitoshi Sanada, Keio University, Japan

A Transmit Beamforming Algorithm for High-Speed Train Communication 1107
Qinglin Luo, Alcatel-Lucent Shanghai Bell, China; Wei Fang, Alcatel-Lucent Shanghai Bell, China; Tao Yang, Alcatel-Lucent Shanghai Bell, China; and Dongyao Wang, Alcatel-Lucent Shanghai Bell, China

Pilot Aided Channel Estimation for a 2×2 MIMO DVB-T2 system in High Speed Mobile Environment 1138
Nico Surantha, Kyushu Institute of Technology, Japan; Tatsumi Uwai, Kyushu Institute of Technology, Japan; Yuhei Nagao, Kyushu Institute of Technology, Japan; Masayuki Kurosaki, Kyushu Institute of Technology, Japan; Baiko Sai, Kyushu Institute of Technology, Japan; and Hiroshi Ochi, Kyushu Institute of Technology, Japan

Partitioned Vector Quantization for MU-MIMO Downlink Broadcasting 1143
Mirza Kibria, Kyoto University, Japan; Hidekazu Murata, Kyoto University, Japan; Susumu Yoshida, Kyoto University, Japan; Koji Yamamoto, Kyoto University, Japan; Daisuke Umehara, Kyoto Institute of Technology, Japan; Satoshi Denno, Okayama University, Japan; and Masahiro Morikura, Kyoto University, Japan

Step reduced K-best sphere decoding 1148
Xinyu Mao, Peking University, China; Yuxin Cheng, Peking University, China; Lili Ma, Peking University, China; and Haige Xiang, Peking University, China

Analysis of Vertical Sectorization for HSPA on a System Level: Capacity and Coverage 1152
Youqi Fu, Beijing University of Posts and Telecommunications, China; Jian Wang, Nokia Siemens Networks, Beijing, China; Zhuyan Zhao, Nokia Siemens Networks, Beijing, China; Liyun Dai, Jiangxi University of Finance and Economics, China; and Hongwen Yang, Beijing University of Posts and Telecommunications, China

Field Experiments of Linearly Precoded Multi-User MIMO System at 5GHz Band 1157
Masato Taniguchi, Kyoto University, Japan; Hidekazu Murata, Kyoto University, Japan; Susumu Yoshida, Kyoto University, Japan; Koji Yamamoto, Kyoto University, Japan; Daisuke Umehara, Kyoto Institute of Technology, Japan; Satoshi Denno, Okayama University, Japan; and Masahiro Morikura, Kyoto University, Japan

Wednesday 5 September 2012 14:00-15:30 2103

5A: Source and Channel Coding

A Robust Communication System Based on Joint-Source Channel Coding for a Uniform Source 1112
Hieu Nguyen, Tor Ramstad and Ilangko Balasingham, Norwegian University of Science and Technogy, Norway

Rateless Codes with Progressive Recovery for Layered Multimedia Delivery 1118
Zhao Chen, Tsinghua University, China; Liuguo Yin, Tsinghua University, China; Mai Xu, Tsinghua University, China; and Jianhua Lu , Tsinghua University, China

Design of Low-Delay Distributed Joint Source-Channel Codes Using Irregular LDPC Codes 1123
Iqbal Shahid, University of Manitoba, Canada; and Pradeepa Yahampath, University of Manitoba, Canada

Distributed Lossy Source Coding Using Real-Number Codes 1128
Mojtaba Vaezi, McGill University, Canada; and Fabrice Labeau, McGill University, Canada

EXIT Chart Based Joint Source-Channel Coding for Binary Markov Sources 1133
Xiaobo Zhou, Japan Advanced Institute of ScienceTechnology (JAIST), Japan; Khoirul Anwar, Japan Advanced Institute of ScienceTechnology (JAIST), Japan; and Tad Matsumoto, Japan Advanced Institute of Science and Technology (JAIST), Japan

Wednesday 5 September 2012 14:00-15:30 207

5B: Interference Alignment and Cancellation

MMSE-Based Optimal Design of Full-Duplex Relay System 1162
Kanghee Lee, Wichita State University, United States; Hyuck M. Kwon, Wichita State University, United States; Mansik Jo, Wichita State University, United States; Hyuncheol Park, Korea Advanced Institute of ScienceTechnology, South Korea; and Yong H. Lee, Korea Advanced Institute of Science and Technology, South Korea

Interference Alignment with Random Vector Quantization for MIMO Interference Channels 1167
Hyun-Ho Lee, Korea University, South Korea; and Young-Chai Ko, Korea University, South Korea

Non-Parametric Interference Cancellation for CDMA Uplink System 1172
Wei Zhang, Qualcomm Inc, United States; and Sharad Sambhwani, Qualcomm Inc, United States

GFDM Interference Cancellation for Flexible Cognitive Radio PHY Design 1177
Rohit Datta, TU Dresden, Germany; Nicola Michailow, TU Dresden, Germany; Michael Lentmaier, TU Dresden, Germany; and Gerhard Fettweis, TU Dresden, Germany

IBI Cancellation and Circular Property Restoration for Broadband DS-CDMA Using FDE without CP Insertion 1182
Min Zheng, Tohoku University, Japan; Wei Peng, Tohoku University, Japan; and Fumiyuki Adachi, Tohoku University, Japan

Wednesday 5 September 2012 14:00-15:30 2105

5C: Energy Efficiency II

Power-Efficient Radio Resource Allocation for Low-Medium-Altitude Aerial Platform Based TD-LTE Networks 1187
Liqiang Zhao, ISN, Xidian Univeristy, China; Chi Zhang, ISN, Xidian Univeristy, China; Hailin Zhang, ISN, Xidian Univeristy, China; Xiaohui Li, ISN, Xidian Univeristy, China; and Lajos Hanzo, University of Southampton, China

Joint Selection of On/off Relay Mode and Adaptive Modulation Mode for Green Cooperative Multicast Networks 1192
Shi-Yong Lee, Academia Sinica, Taiwan; and De-Nian Yang, Academia Sinica, Taiwan

A Centralised Approach to Power On-Off Optimisation for Heterogeneous Networks 1197
Georgios Koudouridis, Huawei Technologies Sweden, R&D Center, Sweden; Hui Gao, Huawei Technologies Sweden, R&D Center, Sweden; and Peter Legg, Huawei Technologies Sweden, R&D Center, Sweden

Energy-Efficient Binary Power Control with Bit Error Rate Constraint in MIMO-OFDM Wireless Communication Systems 1202
Xi Huang, Huazhong University of Science & Technology, Wuhan, China; Xiaohu Ge, Huazhong University of Science & Technology, Wuhan, China; Yuming Wang, Huazhong University of Science & Technology, Wuhan, China; Frank Y. Li, University of Agder, Norway; and Jing Zhang, Huazhong University of Science & Technology, Wuhan, China

AF MIMO Wireless Relay Networks Under Received Power Constraint 1207
Kanghee Lee, Wichita State University, United States; Hyuck M. Kwon, Wichita State University, United States; Hyunggi Kim, Wichita State University, United States; Edwin M. Sawan, Wichita State University, United States; Hyuncheol Park, Korea Advanced Institute of ScienceTechnology, South Korea; and Yong H. Lee, Korea Advanced Institute of Science and Technology, South Korea

Wednesday 5 September 2012 14:00-15:30 2101

5D: Multiple Access System Performance evaluation

Impact of Outdated Feedback on the Performance of M-QAM Adaptive Modulation in User Selection Diversity Systems with OSTBC over MIMO Rayleigh Fading Channels 1212
Mohammad Torabi, École Polytechnique de Montréal, Canada; and Jean-François Frigon, École Polytechnique de Montréal, Canada

The Potential of a Hybrid Fixed/User Relay Architecture- A Performance Analysis 1217
Agisilaos Papadogiannis, Chalmers University of Technology, Sweden; Yutao Sui, Chalmers University of Technology, Sweden; and Tommy Svensson, Chalmers University of Technology, Sweden

IEEE 802.11n: Performance Analysis with Spatial Expansion, Receive Diversity and STBC 1222
Roger Hoefel, Federal University of Rio Grande do Sul (UFRGS), Brazil

Performance Study of IEEE 802.11s PSM in FTP-TCP 1227
Mirza Nazrul Alam, Aalto University, Finland; Riku Jäntti, Aalto University, Finland; Jarkko Kneckt, Nokia Research Center, Finland; and Johanna Nieminen, Nokia Research Center, Finland

Towards Improved QoS in 802.16e Mobile WiMAX 1232
Norman Beaulieu, Univ. of Alberta, Canada; Young Gil Kim, Univ. of Seoul, Korea, Republic of; and Mohamed Damen, Univ. of Waterloo, Canada

Wednesday 5 September 2012 14:00-15:30 206B

5E: Positioning Systems I

Neural Network-Based Accuracy Enhancement Method for WLAN Indoor Positioning 1235
Yubin Xu and Yongliang Sun, Communication Research Center, Harbin Institute of Technology, China

FG-based Cooperative Group Localization for Next-generation Communication Networks 1240
Xuefei Zhang, Qimei Cui, Yulong Shi and Xiaofeng Tao, Beijing University of Posts and Telecommunications, China

Cramer-Rao Lower Bounds for Hybrid Distance Estimation Schemes 1245
Stephan Sand, Wei Wang and Armin Dammann, German Aerospace Center (DLR), Germany

AP Selection for Indoor Localization Based on Neighborhood Rough Sets 1250
Yujia Zhu, Beijing University of PostsTelecommunications, China; and Zhongliang Deng, Beijing University of Posts and Telecommunications, China

The performance of Simulated Annealing Algorithms for Wi-Fi Localization using Google Indoor Map 1255
Xin Zheng, Guanqun Bao, Ruijun Fu, and Kaveh Pahlavan, Worcester Polytechnic Institute, United States

Wednesday 5 September 2012 14:00-15:30 2104A

5F: LTE Networks

LTE FDD Physical Random Access Channel Dimensioning and Planning 1260
Carlos Ubeda, Ericsson, Spain; Salvador Pedraza, Ericsson, Spain; Miguel Regueira, Ericsson, Spain; and Javier Romero, Ericsson, Spain

Comparison of LTE Performance Indicators and Throughput in Indoor and Outdoor Scenarios at 700 MHz 1265
Ching-pu Wu, University of Colorado at Boulder, United States; and Kenneth Baker, University of Colorado at Boulder, United States

A High-efficient Algorithm Of Mobile Load Balancing in LTE System 1270
Ying Yang, University of Science and Technology of China, China; Pengfei Li, University of Science and Technology of China, China; Xiaohui Chen, University of Science and Technology of China, China; and Weidong Wang, University of Science and Technology of China, China

Interference Evaluation for Distributed Collaborative Radio Resource Allocation in Downlink of LTE Systems 1275
Bahareh Jalili, University of Surrey, United Kingdom; Mahima Mehta, Indian Institute of Technology Bombay, India; Mehrdad Dianati, University of Surrey, United Kingdom; Abhay Karandikar, Indian Institute of Technology Bombay, India; and Barry G. Evans, University of Surrey, United Kingdom

Optimal Configuration of Fractional Frequency Reuse System for LTE Cellular Networks 1280
Muhieddin Amer, Rochester Institue of Technology, United Arab Emirates

Wednesday 5 September 2012 14:00-15:30 2000C

5P: Transmission Technologies Posters

IIR Lattice-Based Blind Equalization Algorithms 1285
Hsiao-Fu Lee, Fu Jen Catholic University, Taiwan; Jenq-Tay Yuan, Fu Jen Catholic University, Taiwan; and Tzu-Chao Lin, Fu Jen Catholic University, Taiwan

An Efficient Method of Constructing Quasi-Cyclic Low-Density Parity-Check Codes 1415
Zhanji Wu, Beijing University of Post and Telecommunication, China; and Jiao Cheng, Beijing University of Post and Telecommunication, China

A New Genetics-Aided Message Passing Decoding Algorithm for LDPC Codes 1420
Jui-Hui Hung, National Chiao Tung University, Taiwan; Yi-De Lu, National Chiao Tung University, Taiwan; and Sau-Gee Chen, National Chiao Tung University, Taiwan

A low-complexity distributed Inter-Cell Interference Coordination (ICIC) Scheme for emerging multi-cell HetNets 1425
Chrysovalantis Kosta, University of Surrey, United Kingdom; Bernard Hunt, University of Surrey, United Kingdom; Atta U. Quddus, University of Surrey, United Kingdom; and Rahim Tafazolli, University of Surrey, United Kingdom

Wednesday 5 September 2012 16:00-17:00 2103

6A: Impulsive Noise

Efficient Nonlinear Detector of Binary Signals in Rayleigh Fading and Impulsive Interference 1430
Khodr Saaifan, Jacobs University Bremen, Germany; Khaled Hassan, German University in Cairo, Egypt; and Werner Henkel, Jacobs University Bremen, Germany

An Efficient Technique for OFDM Systems over Fading Channels Impaired by Impulsive Noise 1435
Sabah Nayyef, Newcastle University, United Kingdom; Arafat Al-Dweik, Khalifa University, Sharjah, United Arab Emirates; Ali Hazmi, Tampere University of Technology, Finland; Bayan Sharif, Newcastle University, UK, United Kingdom; and Charalampos Tsimenidis, Newcastle University, UK, United Kingdom

A Simplified LLR-Based Detector for Signals in Class-A Noise 1440
Tarik Shehata Saleh, Systems & Computer Engineering, Canada; Ian Marsland, Carleton University, Canada; and Mohamed El-Tanany, Carleton University, Canada

Wednesday 5 September 2012 16:00-17:00 207

6B: Mobile Satellite Systems

TCP Performance Evaluation over GEO and LEO Satellite Links between Performance Enhancement Proxies 1444
Fei Peng, University of British Columbia, Canada; Ángel Salamanca Cardona, Universidad Politécnica de Madrid, Spain; Kaveh Shafiee, University of British Columbia, Canada; and Victor C.M. Leung, University of British Columbia, Canada

2 End-to-End Performance of Satellite Mobile Communications with Multi-Beam Interference 1449
Fei Yang, University of ScienceTechnology of China, China; Meiyu Huang, University of ScienceTechnology of China, China; Sihai Zhang, University of ScienceTechnology of China, China; and Wuyang Zhou, University of Science and Technology of China, China

Flexible Bandwidth Allocation Scheme based on Traffic Demands and Channel Conditions for Multi-beam Satellite Systems 1454
Un Hee Park, ETRI, South Korea; Hee Wook Kim, ETRI, South Korea; Dae Sub Oh, ETRI, South Korea; and Bon Jun Ku, ETRI, South Korea

Reliable Data Aided Sparsity-Aware Approaches to Clipping Noise Estimation in OFDM Systems 1459
Junho Lee, University of ScienceTechnology, Korea, Republic of; and Seung-Hwan Lee, ETRI, Korea, Republic of

Computationally Efficient PAPR Reduction schemesin OFDM-Based Satellite Communication Systems 1464
Emad Al-Dalakta, Newcastle University, United Kingdom; Charalampos Tsimenidis, Newcastle University, United Kingdom; Bayan Sharif, Newcastle University, United Kingdom; and Arafat Al-Dweik, Khalifa University, Sharjah, United Arab Emirates

A Statistical Model for Uplink Intercell Interferencewith Power Adaptation and Greedy Scheduling 1469
Hina Tabassum, King Abdullah University of Science and Technology (KAUST), Saudi Arabia; Ferkan Yilmaz, King Abdullah University of Science and Technology (KAUST), Saudi Arabia; Zaher Dawy, American University of Beirut (AUB), Lebanon; and Mohamed Slim Alouini, King Abdullah University of Science and Technology (KAUST), Saudi Arabia

Wednesday 5 September 2012 16:00-17:00 2105

6C: Cognitive Radio Protocols and Algorithms

Load-Balancing Spectrum Decision for Cognitive Radio Networks with Unequal-Width Channels 1474
Samer Talat, National Chiao Tung University, Taiwan; and Li-Chun Wang, National Chiao Tung University, Taiwan

SWITCH: A Multichannel MAC Protocol for Cognitive Radio Ad Hoc Networks 1479
Mohamed Kalil, Ilmenau University of Technology, Germany; Andre Puschmann, Ilmenau University of Technology, Germany; and Andreas Mitschele-Thiel, Ilmenau University of Technology, Germany

Dynamic Selection of Priority Queueing Discipline in Cognitive Radio Networks 1484
Arash Azarfar, École Polytechnique de Montréal, Canada; Jean-François Frigon, École Polytechnique de Montréal, Canada; and Brunilde Sansò, École Polytechnique de Montréal, Canada

Wednesday 5 September 2012 16:00-17:00 2101

6D: Cooperative Sensing

Optimal Cooperative Spectrum Sensing in Cognitive Radio with Taguchi Method 1489
Yingying Ma, University of Illinois at Chicago, United States; and Derong Liu, University of Illinois at Chicago, United States

Goodness-of-Fit-based Malicious User Detection in Cooperative Spectrum Sensing 1494
Gosan Noh, Yonsei University, Korea, Republic of; Sungmook Lim, Yonsei University, Korea, Republic of; Seokwon Lee, Yonsei University, Korea, Republic of; and Daesik Hong, Yonsei University, Korea, Republic of

Distributed Robust Channel Assignment for Multi-Radio Cognitive Radio Networks 1499
Maryam Ahmadi, University of Victoria, Canada; Yanyan Zhuang, University of Victoria, Canada; and Jianping Pan, University of Victoria, Canada

Wednesday 5 September 2012 16:00-17:00 206B

6E: Coexistence of Multiple Radio Access Technologies

Physical Cell Identity Assignment in Heterogeneous Networks 1504
Oumer Teyeb, Ericsson Research, Sweden; Gunnar Mildh, Ericsson Research, Sweden; and Anders Furuskär, Ericsson Research, Sweden

Flow Splitting for Multi-RAT Heterogeneous Networks 1509
Xiao Ma, Min Sheng and Yan Zhang, Xidian University, China

Effects and Implications of Beacon Collisions in Co-located IEEE 802.15.4 Networks 1514
Noorsalwati Nordin and Falko Dressler, University of Innsbruck, Austria

Wednesday 5 September 2012 16:00-17:00 2104A

6F: DVB and DAB techniques

Comparison of Policy Realization Strategies for LTE Networks 1519
Usama Mir and Loutfi Nuaymi, Institut Mines Telecom, Telecom Bretagne, France

Handheld Receivers Coverage by DVB-T2 1561
Muhammad Moiz Anis, Xavier Lagrange and Ramesh Pyndiah, Telecom Bretagne, France

Spectrum Sensing for DVB-T Signals EmployingPilot Tones 1566
Ser Wah Oh, Ronghong Mo and Bo Wang, Institute for Infocomm Research, Singapore

Thursday 6 September 2012

Thursday 6 September 2012 10:30-12:30 2103

7A: Limited Feedback

Hadamard Transform Based Codebook Design for Uniform Circular Arrays in Mobile Radio Communications 1525
Lu Wu, Research & Innovation Center, Alcatel-Lucent Shanghai Bell, China; Hongwei Yang, Research & Innovation Center, Alcatel-Lucent Shanghai Bell, China; and Dongyao Wang, Research & Innovation Center, Alcatel-Lucent Shanghai Bell, China

A PMI Feedback Scheme for Downlink Multi-user MIMO Based on Dual-Codebook of LTE-Advanced 1530
Yongyu Dai, Southeast University, China; Shi Jin, Southeast University, China; Lei Jiang, NEC Laboratories, China; Xiqi Gao, Southeast University, China; and Ming Lei, NEC Laboratories, China

Adaptive Bit Allocation in Rateless Coded MISO Downlink System with Limited Feedback 1535
Shaolei Chen, Department of Information Science and Electronic Engineering, Zhejiang University, China; Zhaoyang Zhang, Department of Information Science and Electronic Engineering, Zhejiang University, China; Xiaoming Chen, College of Electronic and Information Engineering, Nanjing University of Aeronautics and Astronautics, China; Huazi Zhang, Department of Information Science and Electronic Engineering, Zhejiang University, China; and Chau Yuen, Singapore University of Technology and Design (SUTD), Singapore

Enhanced Index Assignment for Beamforming with Limited-rate Imperfect Feedback 1540
NOE YOON PARK, Chungbuk National University, South Korea; and YOUNG JU KIM, Chungbuk National University, South Korea

Resource Allocation between Feedback and Forward MIMO Links and Energy Consumption 1545
Daniel Sacristán-Murga, Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Spain; Antonio Pascual-Iserte, Universitat Politècnica de Catalunya (UPC), Spain; and Víctor P. Gil Jiménez, Universidad Carlos III de Madrid, Spain

A Compressed Analog Feedback Strategy for Spatially Correlated Massive MIMO Systems 1550
Junho Lee, University of ScienceTechnology, Korea, Republic of; and Seung-Hwan Lee, ETRI, Korea, Republic of

Thursday 6 September 2012 10:30-12:30 207

7B: Amplify and Forward

Inter-Relay Interference Cancellation for AF MIMO Two-Path Relay Systems 1556
Heesun Park, The Attached Institute of ETRI, Korea, Republic of; and Joohwan Chun, Korea Advanced Institute of Science and Technology, Korea, Republic of

EM Algorithm based Channel Estimation for Amplify-and-Forward Relay Networks with Unknown Noise Correlation 1571
Chao Zhang, Xi'an Jiaotong University, China; Suhua Tang, ATR Adaptive Communications Research Laboratories, Japan; and Pinyi Ren, Xi'an Jiaotong University, China

3 Asymptotic Outage Probability for Amplify-and-Forward CDMA Systems over Nakagami-m Fading Channels 1576
Ali Mehemed, Concordia University, Canada; and Walaa Hamouda, Concordia University, Canada

Exact Error Analysis of Dual-Hop Fixed-Gain AF Relaying over Arbitrary Nakagami-m Fading 1581
Imène Trigui, INRS, Canada; Sofiène Affes, INRS, Canada; and Alex Stéphenne, INRS, Canada

Channel Tracking for AF MIMO Relaying Systems 1586
Panagiota Lioliou, Chalmers University of Technology, Sweden; Daniel Svensson, Chalmers University of Technology, Sweden; and Mats Viberg, Chalmers University of Technology, Sweden

Resource Allocation for Opportunistic Spectrum Sharing Based on Cooperative OFDM Relaying 1591
Wei Dang Lu, Zhejiang University of Technology, China; Yi Gong, Nanyang Technological University, Singapore; Xuan Li Wu, Harbin Institute of Technology, China; Han Qing Li, Harbin Institute of Technology, China; and Nai Tong Zhang, Harbin Institute of Technology, China

Thursday 6 September 2012 10:30-12:30 2105

7C: MIMO/OFDM-based Cognitive Radio

Opportunistic Spatio-Frequency Access in CR-MIMO System Exploiting Primary Transmission Mode Information 1596
Zhao Li, Xidian University, China

Optimal Resource Allocation Scheme in OFDM-Based Cognitive Radio Networks 1601
Mi Zhang, Beijing University of Technology, China; Pengbo Si, Beijing University of Technology, China; Yanhua Zhang, Beijing University of Technology, China; and Ruizhe Yang, Beijing University of Technology, China

Performance Improvements of OFDM Signals Spectrum Sensing in Cognitive Radio 1606
Elena Guzzon, University of Roma Tre, Italy; Francesco Benedetto, University of Roma Tre, Italy; and Gaetano Giunta, University of Roma Tre, Italy

A Novel Antenna Assignment Algorithm For Spectrum Underlay in Cognitive MIMO Networks 1611
Elmahdi Driouch, Université du Québec à Montréal, Canada; Wessam Ajib, Université du Québec à Montréal, Canada; and Taher Jalloul, Université du Québec à Montréal, Canada

Thursday 6 September 2012 10:30-12:30 2101

7D: Channel estimation

Thursday 6 September 2012 10:30-12:30 206B

7E: VANETs

Thursday 6 September 2012 10:30-12:30 2104A

7F: Spectrum Sensing

Thursday 6 September 2012 10:30-12:30 208AB

7G: Cooperation with Limited Feedback

Effect of Outdated CSI on the Performance of Opportunistic Relaying with ARQ 1726
Jinhyun Park and Jae Hong Lee, Seoul National University, Korea, Republic of

Backhaul Constraint-based Cooperative Interference Management for In-building Dense Femtocell Networks 1731
Jiming Chen, Ranplan Wireless Network Design Ltd, United Kingdom; Jimin Liu, Ranplan Wireless Network Design Ltd, United Kingdom; Peng Wang, University of Bedfordshire, Luton, United Kingdom; and Jie Zhang, University of Sheffield, United Kingdom

Performance Analysis of Distributed Beamforming in a Spectrum Sharing System 1736
Liang Yang, Jinan University, China; Mohamed-Slim Alouini, KAUST, Saudi Arabia; and Khalid Qaraqe, Texas A&M University at Qatar, Qatar

Efficient Detection and Quantization Requirements for the Uplink of Base Station Cooperation Systems 1741
Filipe Casal Ribeiro, ISCTE-IUL, Portugal; Rui Dinis, IT - Instituto de Telecomunicações, Portugal; Francisco Cercas, IT - Instituto de Telecomunicações, Portugal; and Adão Silva, Universidade de Aveiro, Portugal

Thursday 6 September 2012 10:30-12:30 2000C

7P: Wireless Networks Posters

Efficient IP Mobility Management for Green Optical and Wireless Converged Access Networks 1746
S.H. Shah Newaz, Raja Usman Akbar, JunKyun Choi, University of Manouba, Tunisia; Gyu Myoung Lee and Noël Crespi, Institut Mines-Telecom, Telecom Sudparis, France

Automatic Neighbor Relation Penetration Probability Prediction 1751
Yingzhe Li, Li Ji and Li Yang, Huawei, China

Resource Allocation and Routing in MIMO-WPM Cognitive Radio Ad-Hoc Networks 1756
Xin Jin, Abdelwaheb Marzouki,; Djamal Zeghlache, Institut Mines-Telecom, Telecom SudParis, France; and Mathew Goonewardena, Institut national de la recherche scientifique (INRS), Canada

Resource Management in 4G Wireless Communications at Vehicular Speeds: A Game Theory Solution 1761
Iftekhar Ahmad and Daryoush Habibi, Edith Cowan University, Australia

Zero configuration adaptive paging (zCap) 1766
Per Kreuger, Daniel Gillblad, Swedish Institute of Computer Science (SICS), Sweden; and Åke Arvidsson, Ericsson AB, Sweden

Secrecy Capacity of Space Keying with Two Antennas 1771
Sinan Sinanovic, University of Edinburgh, United Kingdom; Nikola Serafimovski, University of Edinburgh, United Kingdom; Marco Di Renzo, French National Centre for Scientific Research (CNRS), Ecole Superieure d'Electricite, France; and Harald Haas, University of Edinburgh, United Kingdom

On the security of UWB secret key generation methods against deterministic channel prediction attacks 1776
Sana Tmar-Ben Hamida, Jean-Benoît Pierrot, Benoît Denis, CEA-LETI, Minatec Campus, France; Claude Castelluccia, INRIA Rhône-Alpes, France; and Bernard Uguen, IETR-UMR 6164, Université de Rennes 1, France

Design and Quantitative Assessment of a Novel Hybrid Cloud Architecture for VANET Simulations 1781
Hector Agustin Cozzetti, Istituto Superiore Mario Boella, Italy; Giuseppe Caragnano, Istituto Superiore Mario Boella, Italy; Klodiana Goga, Istituto Superiore Mario Boella, Italy; Daniele Brevi, Istituto Superiore Mario Boella, Italy; Olivier Terzo, Istituto Superiore Mario Boella, Italy; and Riccardo Scopigno, Istituto Superiore Mario Boella, Italy

The GTCF Method for Exact Analysis of Multihop AF Relaying Systems 1786
Norman Beaulieu, University of Alberta, Canada; and Samy Soliman, University of Alberta, Canada

Pareto Optimal Power Control Scheduling for OFDMA Networks 1791
Harald Burchardt, University of Edinburgh, United Kingdom; Sinan Sinanovic, University of Edinburgh, United Kingdom; Gunther Auer, DOCOMO Euro-Labs, Germany; and Harald Haas, University of Edinburgh, United Kingdom

Optimization of Scheduling and Routing in Wireless Ad-Hoc Networks Using Cubic Games 1796
Ebrahim Karami, Memorial University of Newfoundland, Canada; and Savo Glisic, University of Oulu, Finland

Spectral Efficiency and Fairness Tradeoffs in Cellular Networks with Realtime and Nonrealtime Traffic Mix using Stochastic Petri Nets 1802
Rainer Schoenen, Akram Bin Sediq, Halim Yanikomeroglu, University of Manouba, Tunisia; Gamini Senarath, Zhijun Chao and Ho Ting Cheng, Huawei Technologies, Canada

Dual Type Communication Range Recognition Method(D-CRR) for Indoor Position Estimation of Passive RFID Tags 1807
Yuki Oda, Kansai University, Japan; Atsuki Inada, Kansai University, Japan; Emi Nakamori, Kansai University, Japan; Manato Fujimoto, Kansai University, Japan; Tomotaka Wada, Kansai University, Japan; Kouichi Mutsuura, Shinshu University, Japan; and Hiromi Okada, Kansai University, Japan

Resource allocation for Multicast Services with Joint FGS Video Coding and UEP RS Coding Scheme in Single Frequency Networks 1812
Lei Chen and Xiaoxiang Wang, Beijing University of Posts and Telecommunications, China

Performance evaluation of dual carrier feature in the uplink of HSPA+ systems 1817
Amal Abdel Razzac, Lebanese University, Lebanon; Salah Eddine Elayoubi, Ammar El Falou, Orange Labs, France; and Bachar El Hassan, Lebanese University, Lebanon

BEP and Throughput Analysis of Incremental Selective Relaying in DS-CDMA Systems 1822
Hela Hakim, Universite de Quebec a Montreal, Canada; Hatem Boujemaa, Carthage University, Higher School of Communication of Tunis, Tunisia; and Wessam Ajib, Universite de Quebec a Montreal, Canada

Coalition Network Elements for Base Station Cooperation 1827
Jie Zhang, SCIE, UESTC, China; Rong Zhang, Univ. of Southampton, United Kingdom; Guangjun Li, SCIE, UESTC, China; and Lajos Hanzo, Univ. of Southampton, United Kingdom

Exact Analytical Solution for Dual-Hop and Opportunistic Dual-Hop AF Relaying Systems 1832
Samy Soliman and Norman Beaulieu, University of Alberta, Canada

Channel- and delay-aware scheduling and packet dropping for real time traffic over WiMAX networks 1837
Rudzidatul Dziyauddin, Dritan Kaleshi and Angela Doufexi, University of Bristol, United Kingdom

Distributed Resource Allocation Scheme for Multicell OFDMA Networks Based on Combinatorial Auction 1842
Seyed Mohamad Alavi, Illinois Institute of Technology, United States; Chi Zhou, Illinois Institute of Technology, United States; and Wan Wang Gen, Shanghai University, China

Multitone Jamming Rejection of Frequency Hopped OFDM Systems in Wireless Channels 1847
Arafat Al-Dweik, Khalifa University, United Arab Emirates; and Abdallah Shami, Western University, Canada

Mobile Relay Based Fast Handover Scheme in High-Speed Mobile Environment 1853
Qing Huang, Jianmei Zhou, Cheng Tao, Beijing Jiaotong University, China; Su Yi, NEC laboratories, China; and Ming Lei, NEC laboratories, China

AHP-based Relay Selection Protocol for Flexible Resource Management 1859
Inchul Yoo, Korea Advanced Institute of Science and Technology (KAIST), Korea, Republic of; Yeejung Kim, LG Electronics, Korea, Republic of; Jinyoung Oh and Youngnam Han, Korea Advanced Institute of Science and Technology (KAIST), Korea, Republic of

SecAT-Dist: A Novel Secure AT-Dist Localization Scheme for Wireless Sensor Networks 1916
Amal Abdelkarim, University of Manouba, Tunisia; Abderrahim Benslimane, University of Avignon, France; Issam Mabrouki and Abdelfettah Belghith, University of Manouba, Tunisia

On the Performance of Relay Selection in Cognitive Radio Networks 1921
Zoubeir Mlika, Wessam Ajib, Universite de Quebec a Montreal, Canada; Wael Jaafar and David Haccoun, Ecole Polytechnique de Montreal, Canada

Thursday 6 September 2012 14:00-15:30 2103

8A: HetNet II

A Dynamic Resource Assignment Method for Uncoordinated Wireless Networks 1864
Serkan Uygungelen and Zubin Bharucha, DOCOMO Euro-Labs, Germany

Inter Technology Load Balancing Algorithm for Evolved Packet System 1870
Marek Skowron, University of Oulu, Finland; Suneth Namal, University of Oulu, Finland; Jani Pellikka, University of Oulu, Finland; and Andrei Gurtov, University of Oulu, Finland

Small Cells – Effective Capacity Relief Option for Heterogeneous Networks 1875
Michael Hughes, Crown Castle, United States; and Vladan Jovanovic, Newfield Wireless, United States

Flexible Spectrum Sharing and Interference Coordination for Low Power Nodes in Heterogeneous Networks 1881
Carlo Galiotto, Nicola Marchetti and Linda Doyle, CTVR, Trinity College, Dublin, Ireland

Radio Resource Allocation for Single-network and Multi-homing Services in Heterogeneous Wireless Access Medium 1886
Muhammad Ismail, University of Waterloo, Canada; Weihua Zhuang, University of Waterloo, Canada; and Ming Yu, Com Dev, Canada

Thursday 6 September 2012 14:00-15:30 207

8B: Channel Characterization and Modeling

Effect of antenna type on the capacity ofbody-to-body capacity when using uniformpower allocation 1891
Khalida Ghanem, CDTA, Algeria

Characterization of large-scale fading for the 2.4 GHz channel in obstacle-dense indoor propagation topologies 1896
Theofilos Chrysikos, University of Patras, Greece; and Stavros Kotsopoulos, University of Patras, Greece

5 GHz Intra-Vehicle Channel Characterization 1901
David Matolak, Ohio University, United States

Modeling of Vehicle-to-Vehicle Channels in the Presence of Moving Scatterers 1906
Alireza Borhani and Matthias Paetzold, University of Agder, Norway

A Generalized Analysis of Three-Dimensional Anisotropic Scattering in Mobile Wireless Channels-Part II: Second-Order Statistical Characterization 1911
Petros Karadimas, University of Bedfordshire, United Kingdom; and Jie Zhang, University of Sheffield, United Kingdom

Thursday 6 September 2012 14:00-15:30 2105

8C: WSN Design and Deployment

1 **Censoring for Type-Based Multiple Access Scheme in Wireless Sensor Networks 1926**
Mohammed Karmoose, Alexandria University, Egypt; Karim Seddik, American University in Cairo, Egypt; and Hassan El Kamchouchi, Alexandria University, Egypt

Redeployment of Randomly Deployed Wireless Mobile Sensor Nodes 1932
Khalil Mougou, ENSI, Tunisia; Saoucene Mahfoudh, Telecom SudParis, France; Pascale Minet, INRIA, France; and Anis Laouiti, Telecom SudParis, France

Dynamic Sensors Selection for Overlapped Multiple-Target Tracking using Eagerness 1937
Farzaneh Razavi Armaghani, Iqbal Gondal and Joarder Kamruzzaman, Monash University, Australia

Throughput maximization for a wireless energy harvesting node considering the circuitry power consumption 1943
Maria Gregori, CTTC, Spain; and Miquel Payaró, CTTC, Spain

Movement Direction Based Path Selection Strategy in Converged Cellular and Wireless Sensor Networks 1948
Zhenhong Li, Renesas Mobile Corporation, China; Haifeng Wang, Renesas Mobile Corporation, China; Jingfeng Qu, University of Tongji, China; Fei Yin, Renesas Mobile Corporation, China; FuQiang Liu, University of Tongji, China; and Ping Wang, University of Tongji, China

Thursday 6 September 2012 14:00-15:30 2101

8D: Cooperation in LTE

Experimental Evaluation of Reference Signal Interference Canceller for Multi-BS Cooperative Transmission Control in LTE 1953
Atsushi Nagate, Daigo Ogata and Teruya Fujii, Softbank Mobile, Japan

Uplink Coordinated Scheduling Based on Resource Sorting 1958
Gaofeng Cui, Sixing Lu, Weidong Wang, Yinghai Zhang, Chaowei Wang and Xiuhua Li, Beijing University of Posts and Telecommunications, China

Performance Evaluation and Analysis on Group Mobility of Mobile Relay for LTE Advanced System 1963
Wenyu Li, Chao Zhang, Xiaoyu Duan, Shucong Jia, Yu Liu and Lin Zhang, Beijing University of Posts and Telecommunications, China

Low-Complexity Channel Estimation for CoMP Multi-user Systems 1968
Xin Wang, Xiaohui Li and Yongqiang Hei, Xidian University, China

Throughput Analysis for Multi-Point Joint Transmission with Quantized CSI Feedback 1972
Behrooz Makki, Jingya Li, Thomas Eriksson and Tommy Svensson, Chalmers University of Technology, Sweden

Thursday 6 September 2012 14:00-15:30 206B

8E: Intelligent Transportation Systems

Energetic Optimization of the Driving Speed based on Geographic Information System Data 1977
Sousso Kelouwani, UQTR, Canada; Kodjo Agbossou, UQTR, Canada; Yves Dubé, UQTR, Canada; and Loic Boulon, UQTR, Canada

2 **Context-Aware Mobile Intelligent Transportation Systems 1982**
Minh Quang Tran, Shibaura Institute of Technology, Japan; Muhammad Ariff Baharudin, Shibaura Institute of Technology, Japan; and Eiji Kamioka, Shibaura Institute of Technology, Japan

Robust Traffic Assignment in Transportation Networks Using Network Criticality 1988
Agop Koulakezian, Hazem Soliman, Tang Tang and Alberto Leon-Garcia, University of Toronto, Canada

Effects of ACC and FCW on Speed, Fuel Consumption, and Driving Safety 1993
Mohamed Benmimoun, Andreas Pütz, Adrian Zlocki and Lutz Eckstein, Institut für Kraftfahrzeuge, RWTH Aachen University, Germany

Priority Management of Emergency Vehicles at Intersections Using Self-organized Traffic Control 1999
Wantanee Viriyasitavat and Ozan Tonguz, Carnegie Mellon University, United States

Thursday 6 September 2012 14:00-15:30 2104A

8F: Space-time Coding

Collision Warning System in Dynamic Cooperative Environment with Alamouti STBC Algorithm 2003
Chirag Warty, University of Illinois Chicago, United States; and Richard Wai Yu, NAVSEA, United States

An Improved Detection Scheme for Distributed IDM-STCs in Relay-Systems 2008
Florian Lenkeit, University of Bremen, Germany; Dirk Wübben, University of Bremen, Germany; and Armin Dekorsy, University of Bremen, Germany

Power Allocation in Cooperative Space-Time Coded Wireless Relay Networks 2013
Aasem N. Alyahya, King Saud University, Saudi Arabia; and Jacek Ilow, Dalhousie University, Canada

Decoding of Distributed Alamouti STBC in DF Based Cooperative System 2018
Ankur Bansal, Manav R. Bhatnagar, Indian Institute of Technology Delhi, India; and Are Hjørungnes, University of Oslo, Norway

Experimental Verification of PER Performance of STBC-based Multi-hop Cooperative Relaying 2023
Makoto Miyagoshi, Hidekazu Murata, Susumu Yoshida, Koji Yamamoto, Kyoto University, Japan; Daisuke Umehara, Kyoto Institute of Technology, Japan; Satoshi Denno, Okayama University, Japan; and Masahiro Morikura, Kyoto University, Japan

Thursday 6 September 2012 14:00-15:30 208AB

8G: Energy Efficiency

Energy Efficiency and Optimal Power Allocation in Virtual-MIMO Systems 2027
Jing Jiang, University of Surrey, United Kingdom; Mehrdad Dianati, University of Surrey, United Kingdom; Muhammad Imran, University of Surrey, United Kingdom; and Yan Chen, Huawei Technologies, Co. Ltd., China

On the Energy Efficiency of Hybrid Relaying Schemes in the Two-way Relay Channel 2033
Yinan Qi, University of Surrey, United Kingdom; Muhammad Ali Imran, University of Surrey, United Kingdom; and Rahim Tafazolli, University of Surrey, United Kingdom

Collaborative Relay-based Multiuser Beamforming in Cellular Systems 2038
Chen Chen, State Key Laboratory of Advanced Optical Communication Systems and Networks, School of Electronics E, China; Lin Bai, School of Electronic and Information Engineering, Beihang University, China; Da Wang, State Key Laboratory of Advanced Optical Communication Systems and Networks, School of Electronics E, China; Ye Jin, State Key Laboratory of Advanced Optical Communication Systems and Networks, School of Electronics E, China; and Jinho Choi, Swansea University, United Kingdom

On the Energy Efficiency-Spectral EfficiencyTrade-Off of the 2BS-DMIMO System 2043
Oluwakayode Onireti, Fabien Heliot and Muhammad Imran, University of Surrey, United Kingdom

Energy Efficient Comparison between Distributed MIMO and Co-located MIMO in the Uplink Cellular Systems 2048
Chunlong He, Bin Sheng, Pengcheng Zhu, and Xiaohu You, SoutheastUniversity, China

Thursday 6 September 2012 14:00-15:30 2000C

8P: Multiple Access Posters

Achievable Net-Rates in Multi-User OFDMA with Partial CSI and Finite Channel Coherence 2053
Peter Rost, NEC Laboratories Europe, Germany

Model Predictive Zooming Power Control in Future Cellular Systems Under Coarse Quantization 2058
Mauricio Cea, University of Newcastle, Australia; Graham Goodwin, University of Newcastle, Australia; and Torbjorn Wigren, Ericsson AB, Sweden

Self-optimization of Downlink Transmission Power in 3GPP LTE-A Heterogeneous Network 2063
Yupeng Wang, Dongyao Wang, Jiyong Pang and Gang Shen, Alcatel-Lucent Shanghai Bell Co. Ltd., China

Bargaining Solutions for Multicast Subgroup Formation in LTE 2068
Leonardo Militano, Massimo Condoluci, Giuseppe Araniti and Antonio Iera, University Mediterranea of Reggio Calabria, Italy

A MU-MIMO CQI estimation method for MU-MIMO UEs in LTE systems 2073
Hung T. Nguyen, Aalborg University, Denmark; and Istvan Kovacs, Nokia Siemens Networks, Denmark

Link Adaptation Control in LTE Uplink 2078
Pierre Bertrand, Texas Instruments Inc, France; Anthony Ekpenyong, Texas Instruments Inc, United States; and Jing Jiang, Texas Instruments Inc, United States

A Simple Scheduling Restriction Scheme for Interference Coordinated Networks 2083
Moo Ryong Jeong, DOCOMO Innovations, Inc., United States; and Nobuhiko Miki, NTT DOCOMO, INC., Japan

On the Dependence between FPC and ICIC in SC-FDMA Cellular Systems 2089
Javier Lafuente-Martínez, Ángela Hernández-Solana and Antonio Valdovinos, University of Zaragoza, Spain

Distributed Resource Allocation with Inter-cell Interference Coordination in OFDMA Uplink 2094
Shuhui Liu, Yongyu Chang and Dacheng Yang, Beijing University of Posts and Telecommunications, China

A Proposal for Radio Resource Allocation of TDM Inter-Cell Interference Coordination to Heterogeneous Networks with Pico Cells in LTE-Advanced 2099
Noriaki Miyazaki, Xiaoqiu Wang, Masashi Fushiki, Yosuke Akimoto and Satoshi Konishi, KDDI R&D Laboratories Inc., Japan

MAI and MI Performance of the Orthogonal Complementary Code Based DS-BPAM UWB System 2104
Zhiquan Bai, Fang Zhao, Yongjie Xu, Dongfeng Yuan and Kyungsup Kwak, Inha University, South Korea

Efficient Paging Control for Carrier Aggregation in LTE-A System 2109
Chie Ming Chou and Ching Yao Huang, NCTU, Taiwan

Impact of Backhaul Subframe Misalignment on Uplink System Performance of LTE-Advanced Relay Networks 2114
Ömer Bulakci, Nokia Siemens Networks, Germany; Andrei Stefan Nedelcu, Technische Universität München (TUM), Germany; Abdallah Bou Saleh, Aalto University School of Electrical Engineering, Finland; Simone Redana, Nokia Siemens Networks, Germany; and Jyri Hämäläinen, Aalto University School of Electrical Engineering, Finland

Joint Utility Maximization in Two-tier Networks by Distributed Pareto-Optimal Power Control 2120
Duy Ngo, McGill University, Canada; Long Le, Institut National de la Recherche Scientifique (INRS-EMT), Universite du Quebec, Canada; and Tho Le-Ngoc, McGill University, Canada

Performance Analysis and Parameter Optimization of Random Access Backoff Algorithm in LTE 2125
Xiao-Bin Yang, University of Calgary, Canada; Abraham Fapojuwo, University of Calgary, Canada; and Emeka Egbogah, University of Calgary, Canada

Performance of Power Saving Modes in IEEE 802.16e System 2130
Fuad M. Abinader Jr., Instituto Nokia de Tecnologia (INdT), Brazil; Vicente A. de Souza Jr., Universidade Federal do Rio Grande do Norte (UFRN), Brazil; Anderson S. B. Fernandes, Universidade Federal do Rio Grande do Norte (UFRN), Brazil; Adaildo G. D'Assunção, Universidade Federal do Rio Grande do Norte (UFRN), Brazil; Nibia S. Bezerra, GTEL - UFC, Brazil; and Pekko Orava, Nokia, Finland

A Novel QoE-Based Carrier Scheduling Scheme in LTE-Advanced Networks with Multi-Service 2135
Fei Liu, Beijing University of Posts & Telecommunications, China; Wei Xiang, University of Southern Queensland, Australia; Yueying Zhang, Beijing University of Posts & Telecommunications, China; Kan Zheng, Beijing University of Posts & Telecommunications, China; and Hui Zhao, Beijing University of Posts & Telecommunications, China

Fast Adaptive S-ALOHA Scheme for Event-driven Machine-to-Machine Communications 2140
Huasen Wu, Beihang University, China; Chenxi Zhu, University of Maryland, United States; Richard La, University of Maryland, United States; Xin Liu, University of California, Davis, United States; and Youguang Zhang, Beihang University, China

Subchannel and Transmission Mode Scheduling for D2D Communication in OFDMA Networks 2155
Min-Hong Han, Yonsei University, South Korea; Byung-Gook Kim, Yonsei University, South Korea; and Jang-Won Lee, Yonsei University, South Korea

Scheduling for Frequency Hopped Access with Randomized Frame Lengths 2160
Bill Kiki-Sagbe and François Gagnon, LACIME-ÉTS-Montréal, Canada

A Hybrid Approach of Time-Frequency Domain Interference Coordination for QoS Guarantee in Macro-Femto Co-channel Deployment 2165
Zhenguo Du, USTC, China; Peilin Hong, USTC, China; Kaiping Xue, USTC, China; and Hao Tang, USTC, China

Study of the Degree of Fairness for a Parallel Relay 2-hop OFDMA Virtual Cellular Network 2170
Gerard J. Paraison and Eisuke Kudoh, Tohoku Institute of Technology, Japan

Resource Allocation for Downlink OFDMA Relay Networks with Imperfect CSI 2174
Jaeho Lee, LG Electronics, Inc., South Korea; Hanmok Shin, Seoul National University, South Korea; and Jae Hong Lee, Seoul National University, South Korea

Study on The Uplink Sum Capacity of Single Cell Cellular Systems With Minimum SINR Constraint 2179
Qiuping Huang, Beijing University of Posts and Telecommunications, China; Xiaofeng Liu, China Academy of Telecommunications Research, MITT, China; and Hongwen Yang, Beijing University of Posts and Telecommunications, China

DownLink Resource Allocation for LTE-Advanced networks with Type1 Relay Nodes 2184
ZhuYan Zhao, Jian Wang, Nokia Siemens Networks, China; Simone Redana and Bernhard Raaf, Nokia Siemens Networks, Germany

Cross-Layer Handoff Design in Communication-Based Train Control (CBTC) Systems Using WLANs 2189
Li Zhu, Beijing Jiaotong University, China; F. Richard Yu, Carleton University, Canada; Bin Ning, Tao Tang and Hongwei Wang, Beijing Jiaotong University, China

A Novel Opportunistic Scheduling Algorithm in Coordinated Multi-Point Transmission Scenario 2194
Hao Wang, Zhihang Li, Nan Liu, Zhiwen Pan and Xiaohu You, Southeast University, China

Dynamic Load Balancing in 3GPP LTE Multi-Cell Fractional Frequency Reuse Networks 2199
Zhihang Li, Hao Wang, Zhiwen Pan, Nan Liu and Xiaohu You, Southeast University, China

Thursday 6 September 2012 16:00-17:30 2103

9A: Femto II

Heterogeneous Deployment to Meet Traffic Demand in a Realistic LTE Urban Scenario 2145
Claudio Coletti, Aalborg University, Denmark; Huan Nguyen, Aalborg University, Denmark; Liang Hu, Aalborg University, Denmark; István Kovács, Nokia Siemens Networks, Denmark; Benny Vejlgaard, Nokia Siemens Networks, Denmark; Ralf Irmer, Vodafone Group, United Kingdom; and Neil Scully, Vodafone Group, United Kingdom

Pareto Optimal SINR Scheduling for Femto-cell Deployment in Wireless Networks 2150
Harald Burchardt, University of Edinburgh, United Kingdom; Sinan Sinanovic, University of Edinburgh, United Kingdom; Gunther Auer, DOCOMO Euro-Labs, Germany; and Harald Haas, University of Edinburgh, United Kingdom

Hybrid Access Design for Femtocell Networks With Dynamic User Association and Power Control 2204
Vu Ha and Long Le, INRS-EMT, University of Quebec, Canada

An MDP-Based Handover Decision Algorithm in Hierarchical LTE Networks 2209
Jun Pan and Wenyi Zhang, University of Science and Technology of China, China

Overload Control for Machine Type Communications with Femtocells 2214
Ang-Hsun Tsai, Li-Chun Wang, Jane-Hwa Huang, National Chi Nan University (NCNU), Taiwan; and Tzu-Ming Lin, Industrial Technology Research Institute (ITRI), Taiwan

Thursday 6 September 2012 16:00-17:30 207

9B: PHY/MAC for Ad Hoc Networks

T-TMAC: Energy Aware Sensor MAC Protocol for Health-care Monitoring 2219
Youssouf Zatout, Eric Campo, and Jean-François Llibre, CNRS, France

2 Spatial Multiplexing with Opportunistic Multiuser Scheduling in Ad Hoc Networks 2224
Xianling Wang, Jian Geng, Xin Zhang and Dacheng Yang, Beijing University of Posts and Telecommunications, China

Collision-Balancing Frequency Hopping in Single-Hop Mobile Ad Hoc Networks 2229
Ralph Tanbourgi, Karlsruhe Institute of Technology, Germany; Xevi Pujol i Molist, Technical University of Catalonia (UPC), Spain; and Friedrich K. Jondral, Karlsruhe Institute of Technology, Germany

Event-driven MAC Protocol For Dual-Radio Cooperation 2234
Arash Khatibi, Research Asistant, United States; Yunus Durmus, PhD student in Embedded Software Group, Netherlands; and Ertan Onur, Asistant Prof at Embedded Software Group, Netherlands

BER Analysis with an Appropriate Friis Formula for Multi-hop ALOHA Dense Ad Hoc Networks 2239
Pabblo Ghobad, University of Brasília (UnB), Brazil; and Renato Moraes, University of Brasília (UnB), Brazil

Thursday 6 September 2012 16:00-17:30 2105

9C: Equalization

Pilot-Aided Equalization with a Constrained Noise-Estimation Filter 2244
Maurizio Magarini, Politecnico di Milano, Italy; Arnaldo Spalvieri, Politecnico di Milano, Italy; and Luca Barletta, Politecnico di Milano, Italy

Iterative Frequency Domain Equalization for Single Carrier Signals with Magnitude Modulation Techniques 2249
Marco Gomes, Instituto de Telecomunicações, DEEC-Univ. de Coimbra, Portugal; Rui Dinis, Instituto de Telecomunicações, FCT-UNL, Portugal; Vitor Silva, Instituto de Telecomunicações, DEEC - Universidade de Coimbra, Portugal; Francisco Cercas, Instituto de Telecomunicações, ISCTE-IUL, Portugal; and Martin Tomlinson, University of Plymouth, United Kingdom

Frequency-Domain Scrambling Differential Detection and Equalization for DFT Scrambling Vector OFDM System 2254
Gao Zhou, Southwest Jiaotong University, China; Pingzhi FAN, Southwest Jiaotong University, China; and Li HAO, Southwest Jiaotong University, China

A Pragmatic Design of Frequency-Domain Equalizers for Offset Modulations 2259
Miguel Luzio, FCT - Universidade Nova de Lisboa, Portugal; Rui Dinis, IT - Instituto de Telecomunicações, Portugal; and Paulo Montezuma, UNINOVA - Instituto de Desenvolvimento de Novas Tecnologias, Portugal

Frequency-Domain Turbo Equalisation in Coded SC-FDMA Systems: EXIT Chart Analysis and Performance 2264
Jiayi Zhang, Lie-Liang Yang and Lajos Hanzo, University of Southampton, United Kingdom

Thursday 6 September 2012 16:00-17:30 2101

9D: OFDM

Optimum and Sub-Optimum Receivers for OFDM Signals with Iterative Clipping and Filtering 2269
João Guerreiro, FCT, Portugal; Rui Dinis, Instituto de Telecomunicações, Portugal; and Paulo Carvalho, FCT, Portugal

Iterative Intercarrier Interference Mitigation for Pilot-Aided OFDM Channel Estimation Based on Channel Linearizations 2274
Ingmar Groh, Intel Mobile Communications, Germany; Christian Gentner and Stephan Sand, German Aerospace Center (DLR), Germany

Multi-User Aware Frame Structure for OFDMA Based System 2279
Alphan Sahin and Huseyin Arslan, University of South Florida, United States

Subcarrier Power Allocation in OFDM with Low Precision ADC at Receiver 2284
Tapan Shah and Onkar Dabeer, Tata Institute of Fundamental Research, India

Performance Evaluation of DFT-Spread OFDM and DCT-Spread OFDM for Underwater Acoustic Communication 2289
Prashant Kumar and Preetam Kumar, Indian Institute of Technology Patna, India

Thursday 6 September 2012 16:00-17:30 206B

9E: Power Control I

Base-Station Duty-Cycling and traffic buffering as a means to achieve Green Communications 2294
Rohit Gupta and Emilio Calvanese Strinati, CEA-LETI, France

Optimization of Discontinuous Reception (DRX) for Mobile Internet Applications over LTE 2300
Ali Taha Koc, Satish Chandra Jha and Rath Vannithamby, Intel Corporation, United States

Uplink interference protection as a non-cooperative game over OFDMA networks 2305
Rodrigo A. Vaca Ramirez, The University of Edinburgh, United Kingdom; John Thompson, The University of Edinburgh, United Kingdom; and Victor M. Ramos R., Universidad Autonoma Metropolitana (UAM), Mexico

A Novel Power Ramping Scheme of M2M for WCDMA Random Access Channel 2310
Lingling Xu, Hui Tian, Ziqiang Liu, Yao Huang, Key Laboratory of Universal Wireless Communications, Ministry of Education, Wireless Technology Innovation Institute, WTI, Beijing University of Posts and Telecommunications, China; and Haidong Yan, Huawei Technologies Co., Ltd., China

LTE UE Power Consumption Model - For System Level Energy and Performance Optimization 2315
Anders Riis Jensen, Aalborg University, Denmark; Mads Lauridsen, Aalborg University, Denmark; Preben Mogensen, Aalborg University, Denmark; Troels B. Sørensen, Aalborg University, Denmark; and Per Jensen, Agilent Technologies, Denmark

Thursday 6 September 2012 16:00-17:30 2104A

9F: Modulation and Detection

1 Reduced-Complexity Soft-Decision Aided PSK Detection 2320
Chao Xu, University of Southampton, United Kingdom; Dandan Liang, University of Southampton, United Kingdom; Shinya Sugiura, Toyota Central R&D Labs, Japan; Soon Xin Ng, University of Southampton, United Kingdom; and Lajos Hanzo, University of Southampton, United Kingdom

Near ML Modulation Classification 2325
Dongwoon Bai, Samsung, United States; Jungwon Lee, Samsung, United States; Sungsoo Kim, Samsung, United States; and Inyup Kang, Samsung, United States

Iterative Overlap TD-QRM-ML Block Signal Detection for Single-Carrier Transmission without CP Insertion 2330
Hideyuki Moroga, Tohoku University, Japan; Tetsuya Yamamoto, Tohoku University, Japan; and Fumiyuki Adachi, Tohoku University, Japan

A Low Complexity Blind Data Detector for OFDM Systems 2335
Yi-Syun Yang, National Taiwan University, Taiwan; Wei-Chieh Huang, Industrial Technology Research Institute, Taiwan; Chih-Peng Li, National Sun Yat-Sen University, Taiwan; and Hsueh-Jyh Li, National Taiwan University, Taiwan

Optimal Amplitude Design for Pulse Position Amplitude Modulation 2340
Wei-Chieh Huang, Chia-Lung Tsai and Pang-An Ting, Industrial Technology Research Institute, Taiwan

Thursday 6 September 2012 16:00-17:30 208AB

9G: Power Allocation

Joint Power Allocation for Coherent Downlink Coordinated Transmission 2345
Shiyuan Li, Beijing University of Posts and Telecommunications (BUPT), China; Qimei Cui, Beijing University of Posts and Telecommunications (BUPT), China; Harald Haas, University of Edinburgh, United Kingdom; Xiaofeng Tao, Beijing University of Posts and Telecommunications (BUPT), China; and Xin Chen, Beijing University of Posts and Telecommunications (BUPT), China

QoS Aware Scheduling with Optimization of Base Station Power Allocation in Downlink Cooperative OFDMA Systems 2350
Xiao Zhang, Xiaoming Tao and Jianhua Lu, Tsinghua University, China

Amplify-and-Forward MIMO Y Channel: Power Allocation Based Signal Space Alignment 2355
Yuping Su, State Key Lab of ISN, Xidian University, China; Ying Li, State Key Lab of ISN, Xidian University, China; and Jinliu Liu, Hua wei Technologies, Beijing, China

Capacity and Power Allocation of Dual-Hop AF Relaying over Rayleigh Fading Channels 2360
Leonardo Jimenez Rodriguez, McGill University, Canada; Nghi Tran, University of Akron, United States; and Tho Le-Ngoc, McGill University, Canada

Thursday 6 September 2012 16:00-17:30 2000C

9P: Cooperative Communications Posters

Degrees of Freedom of Signal Alignment forGeneralized MIMO Y Channel with General SignalDemands 2365
Jiaju She, Shanzhi Chen, State Key Laboratory of Networking and Switching Technology, Beijing University of Posts and Telecommunications, and State Key Laboratory of Wireless Mobile Communications, China Academy of Telecommunications Technology, China; Bo Hu, State Key Laboratory of Networking and Switching Technology, Beijing University of Posts and Telecom, China; Yingmin Wang, State Key Laboratory of Wireless Mobile Communications, China Academy of Telecommunications Technolo, China; Weiguo Ma, State Key Laboratory of Wireless Mobile Communications, China Academy of Telecommunications Technolo, China; and Xin Su, State Key Laboratory of Wireless Mobile Communications, China Academy of Telecommunications Technolo, China

Joint Design of Linear Relay and Destination Processing for Two-hop MIMO Multi-relay Networks 2370
Youhua Fu, Nanjing University of PostsTelecommunications, China; Wei_Ping Zhu, Concordia University, Canada; and Chen Liu, Nanjing University of Posts and Telecommunications, China

Distributed Auction for Self-Optimization in Wireless Cooperative Networks 2374
Lei Zhong, National Institute of Information and Communications Technology (NICT), Japan; Yusheng Ji, National Institute of Informatics (NII), Japan; and Noboru Sonehara, National Institute of Informatics (NII), Japan

Outage Performance and DMT Analysis of DF Parallel Relaying in FSO IM/DD Communications 2379
Sahar Molla Aghajanzadeh, University of Waterloo, Canada; and Murat Uysal, Ozyegin University, Turkey

User Pairing for Capacity Maximization in Cooperative Wireless Network Coding 2384
Talha Rasheed, Memorial University of Newfoundland, Canada; Mohamed Ahmed, Memorial University of Newfoundland, Canada; and Octavia Dobre, Memorial University of Newfoundland, Canada

High Power Efficiency Transmission Based on Game Theory for AF Cooperative Communication 2389
Takuya Yamada and Tomoaki Ohtsuki, Keio University, Japan

Joint Transmit/Receive MMSE-FDE for MIMO Analog Network Coding in Single-Carrier Bi-Directional Relay Communications 2394
Hiroyuki Miyazaki, Tohoku University, Japan; Masayuki Nakada, Tohoku University, Japan; Tatsunori Obara, Tohoku University, Japan; and Fumiyuki Adachi, Tohoku University, Japan

Distributed Beamforming for Wireless Sensor Networks in Local Scattering Environments 2399
Slim Zaidi, INRS, Canada; and Sofiène Affes, INRS, Canada

Spectral Efficiency of Distributed Antenna Network Using MIMO Spatial Multiplexing 2405
Shinya Kumagai, Ryusuke Matsukawa, Tatsunori Obara, Tetsuya Yamamoto and Fumiyuki Adachi, Tohoku University, Japan

A Novel Network Coding Multi-User Coordinated Multipoint Downlink Transmission Scheme 2410
Wei Zhou, Ying Li, Yue Sun, Xidian University, China; and Dengkui Zhu, ZTE Corporation, China

Threshold-Triggered Selective Phase-Forward of Differential PSK in Cooperative Communication 2415
Huai Tan and Paul Ho, Simon Fraser University, Canada

Low Complexity Detectors for Cooperative WirelessSensor Networks 2420
Qasim Zeeshan Ahmed, KAUST, Saudi Arabia; Mohamed-Slim Alouini, KAUST, Saudi Arabia; and Sonia Aissa, INRS, University of Quebec, Canada

Clique-based Capacity Analysis of Wireless Ad-hoc Networks with Cooperative Relaying in Multi-flow Scenario 2425
Salah Abdulhadi, Ryerson University, Canada; Muhammad Jaseemuddin, Ryerson University, Canada; Alagan Anpalagan, Ryerson University, Canada; and Alagan Anpalagan, Ryerson University, Canada

An Interference Coordination Scheme for Device-to-Device Multicast in Cellular Networks 2430
Dongyu Wang, Beijing University of Posts and Telecommunications, China; Xiaoxiang Wang, Beijing University of Posts and Telecommunications, China; and Yuan Zhao, Beijing University of Posts and Telecommunications, China

An Optimized Cooperative Transmission Scheme for Interference Mitigation in Heterogeneous Downlink Network 2435
Kai Huang, Tsinghua University, China; Songtao Lu, Beihang University, China; and Jingbo Guo, Tsinghua University, China

On the Capacity Gap of Gaussian Multi-Way Relay Channels 2440
Moslem Noori, University of Alberta, Canada; and Masoud Ardakani, University of Alberta, Canada

Workshops

Monday 3 September 2012

2W: Workshop on Green Information and Communications

First Survey Results of Quantified User Behavior in User-in-the-Loop Scenarios for Sustainable Wireless Networks 2444
Rainer Schoenen, Carleton University, Ottawa, Canada; Gurhan Bulu, Hacettepe University, Turkey; Amir Mirtaheri, Tamer Beitelmal and Halim Yanikomeroglu, Carleton University, Ottawa, Canada

Spectrum Reorganization and Bundling for Power Efficient Mobile Networks 2449
Gilbert Micallef, Aalborg University, Denmark; Preben Mogensen, Nokia Siemens Networks, Denmark; and Hans-Otto Scheck, Nokia Siemens Networks, Sweden

Game Theory Based Power Allocation Algorithm in High-Speed Mobile Environment 2454
Lina Mao, Shaoyi Xu, Tianhang Fu and Qing Huang, Research Institute of Broadband Wireless Mobile Communications, School of Electronics and Information Engineering, China

4 **Distributed Energy-Saving Mechanism for Self-Organizing Femto LTE Networks 2459**
Raymond Kwan, Ubiquisys, United Kingdom

Traffic Routing Guidance Algorithm based on Backpressure with a Trade-off between User Satisfaction and Traffic Load 2464
Rui Zhang, Zhijun Li, Cheng Feng and Shouxu Jiang, Harbin Institute of Technology, China

Combined Hop Count and Received Signal Strength Routing Protocol for Mobility-enabled WSNs 2469
João M. Ferro and Fernando J. Velez, Instituto de Telecomunicações, Universidade da Beira Interior, Portugal

Tuesday 4 September 2012

3W: Workshop on Wireless World 2020

Latency-Reduced Equalizer with Model-Based Channel Estimation for Vehicle-to-Vehicle Communications 2475
Xin Gao, Xianbin Wang and Md. Jahidur Rahman, The University of Western Ontario, Canada

User Classifying-based Hybrid Spectrum Allocation in Two-tier OFDMA Femtocell Networks 2502
Sainan Li, Hailun Xia, Zhimin Zeng, Zhenglei Huang and Hao Wu, Beijing University of Posts and Telecommunications, China

A Compressed HARQ Feedback for Device-to-Device Multicast Communications 2507
Jinling Du, Shanghai Research Center for Wireless Communications, China; Wensheng Zhu, Shanghai Research Center for Wireless Communications, China; Jing Xu, Shanghai Research Center for Wireless Communications; Shanghai Institute of Microsystem and Informat, China; Zhenhong Li, Wireless Modem R&D Renesas Mobile Corporation, Finland; and Haifeng Wang, Wireless Modem R&D Renesas Mobile Corporation, Finland

Utility-based Dynamic Spectrum Aggregation Algorithm in Cognitive Radio Networks 2512
Haeyoung Lee, Seiamak Vahid and Klaus Moessner, University of Surrey, United Kingdom

Future Evolution in Wireless Network Architectures: Towards a 'Cloud of Antennas' 2517
Matthew Webb, Zhaojun Li, Paul Bucknell, Timothy Moulsley and Sunil Vadgama, Fujitsu Laboratories of Europe Ltd, United Kingdom

6 **Downlink Transmission Optimization Framework 2522**
Ngọc-Dũng Đào, Aaron Callard, Hang Zhang and Ho Ting Cheng, Huawei Technologies Canada, Canada

A Novel Downlink ICIC Method Based on User Position in LTE-Advanced Systems 2527
Dengkun Xiao, Beijing Institute, Huawei Technologies Co., Ltd., China; Xiaoyu Yu, China University of Geoscience, China; and Dongkai Yang, School of Electronics and Information Engineering, Beihang University, China

Step-Wise Optimal Low Power Node Deployment in LTE Heterogeneous Networks 2532
Ho Ting Cheng, Aaron Callard, Gamini Senarath, Hang Zhang and Peiying Zhu, Huawei Technologies Canada, Canada

A Novel Adaptive Fusion Scheme For Cooperative Spectrum Sensing 2536
Imen Nasr and Sofiane Cherif, SUP'COM, Tunisia

Context-aware Proactive Systems CAPS2012

4H: Context-aware Proactive Systems

Activity recognition with implicit context classification 2480
Stephan Sigg, Lei Zhong, and Yusheng Ji, National Institute of Informatics (NII) Tokyo, Japan

Activity recognition from Radio Frequency data: Multi-stage recognition and features 2486
Shuyu Shi, Stephan Sigg, Yusheng Ji National Institute of Informatics (NII) Tokyo, Japan

Device Discovery in Future Service Platforms through SIP 2492
Yuan Chen, Suparna De, Ralf Kernchen, Klaus Moessner, University of Surrey, UK

Legal assessment of context prediction techniques 2497
Christian Voigtmann, Klaus David, Hendrik Skistims and Alexander Roßnagel, University of Kassel, Germany

Wednesday 5 September 2012 14:00-15:30 2104A

5H: Context-aware Vehicular Applications

Evaluation of a collaborative-based filter technique to proactively detect pedestrians at risk 2541
Christian Voigtmann, Sian Lun Lau and Klaus David, University of Kassel (ComTec), Germany

A Comparison of Reactive, Grid and Hierarchical Location based Services for VANETs 2546
Marwane Ayaida, Hacène Fouchal, Lissan Afilal, University of Reims, France; and Yacine Ghamri-Doudane, Université Paris-Est and ENSII France

VECADS: VEhicular Context-Aware Downstream Scheduling for Drive-thru Internet 2551
Tan Hing Hui, Wing Cheong Lau and Onching Yue, The Chinese University of Hong Kong, Hong Kong