VTC2012-Spring
YOKOHAMA
Shaping the Advanced Wireless Society

2012 IEEE 75th Vehicular Technology Conference

6-9 May 2012
Yokohama, Japan

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Connecting the Mobile World

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Welcome

Welcome from the General Co-Chairs

On behalf of the Organizing Committee, we would like to welcome you all to the IEEE VTC2012-Spring held in a beautiful harbor front city of Yokohama!

It has been already 12 years since we had the last VTC conference in Tokyo, Japan. In that year 2000, total number of digital mobile subscribers in the world was 663 million with 2nd generation systems, while currently, it has exceeded 5 billion. During the last decade, we have enjoyed tremendous evolution of mobile communications in terms of subscriber numbers and technologies. Diversified services are now available from voice, video and Internet. Thanks to novel technologies, packet data rate has been increased by 1000 times during the last decade drived by the demand of wireless applications by smart-phones. And still, mobile data traffic will grow at a compound annual growth rate (CAGR) of 200 percent per year in Japan and in other major countries resulting into 1000 times in the next decade. To cope with this high volume traffic, innovative technologies of radio-access, system and network should be furthermore developed.

Last year, we have encountered the unprecedented disaster due to great earthquake in eastern Japan and found the role of mobile communications vitally important in every aspect. We would like to express our deep appreciation for your warm heartfelt supports for the recovery and also for so many participants like you attending this IEEE VTC2012-Spring from all over the world. Let us seize this moment to shape the new global society in which the peoples of the world enjoy a sense of not only efficiency and affluence but also security with the advancement of mobile communications technologies.

Taking this opportunity, we would like to express sincere appreciations to all of the colleagues for the concerted efforts to prepare the conference, and appreciations to the authors who have submitted valuable papers.

Finally, but not least, we hope that you will enjoy not only in-depth discussions and information exchanges during this prestigious conference but also a lot of traditional cultural flavors in Japan to make your stay more memorable.

Takeshi Hattori, Susumu Yoshida & Fumiyuki Adachi
General Co-chairs, IEEE VTC2012-Spring

Welcome

Welcome from the TPC Co-Chairs

On behalf of the Technical Program Committee (TPC), it is our great pleasure to welcome you to the 75th IEEE Vehicular Technology Conference (VTC) to take place in the first harbor city introduced to the world as the entrance to Japan.

The committee has organized an impressive program that advances the current technical and research trends under this year's conference theme "Shaping the Advanced Wireless Society". This time, we have organized 12 technical tracks covering many exciting aspects of advanced wireless society. Especially, we have newly introduced "GREEN Networks track" because we can no longer talk anything about the future of our ICT society without the word "GREEN".

The technical program consists of 67 oral sessions and 9 poster and exhibition sessions. In total, the conference Track Chairs have selected 335oral papers and 132 poster papers from a total of973 submissions from about 40 countries to the12 technical tracks. All the accepted papers will be published in the conference proceedings. In addition to the regular sessions, the program offers 2 panel sessions and 6 tutorials addressing some of the main mobile and wireless communication and localization challenges.

The creation of this impressive program would not be possible without the voluntary support from an outstanding team of colleagues that we would like to strongly thank. Special thanks go to conference Track Chairs that organized a very efficient and smooth review and session organization process, as well as the Panel and Tutorial Chairs that organized very excellent sessions.

We would also like to thank the great job of our dedicated TPC members and reviewers, for their professional and timely review of technical contributions. We are also very grateful to the constant support from Prof. James Irvine in the technical program preparation process. Of course, making a successful technical conference is not possible without the participation from authors, to whom we would like to express our gratitude for having decided to present and share their ideas and contributions to our community.

I would also like to thank the IEEE VTC2012-Spring Organization Committee for its full support. I look forward to meeting you in Yokohama, Japan, this May. You will enjoy the conference and the harbor city of Japan!

Seiichi Sampei, TPC Chair & Mamoru Sawahashi, TPC Vice Chair
IEEE VTC2012-Spring

Welcome from the VTS President

On behalf of VTS, it is my pleasure to welcome you to the 75th VTC in Yokohama, Japan. This conference brings together researchers from all over the world to discuss and exchange ideas in the field of wireless, mobile, and vehicular technology. Yokohama, with its fashionable and sophisticated streetscapes, serves as the cosmopolitan backdrop for this exciting conference.

For over sixty years this flagship conference of the IEEE Vehicular Technology Society brings together individuals from academia, government, and industry to discuss and exchange ideas in the fields of wireless, mobile, and vehicular technology. Since 1999, VTC has been held twice a year: in North America, and rotating between Europe and the Asia-Pacific region, increasing accessibility to the conference experience throughout the world. We are currently taking steps to expand the coverage of vehicular electronics and land transportation to increase the breadth of VTC beyond its traditionally strong areas.

Besides its conference activities, the VT Society continues to publish and improve its major IEEE journal, *Transactions on Vehicular Technology*, which is among the best in the field.[1] We invite you to get involved with VTS as a member and help shape the future of our profession. I hope that this conference may inspire some of you to consider hosting a future VTC.

I wish to convey a special thank you to the General Chair and Co-Chairs of VTC 2012-Spring, Professors Takeshi Hattori, Susumu Yoshida, and Fumiyuki Adachi. Special thanks also must be conveyed to Technical Program Chair and Vice-Chair, Professors Seiichi Sampei and Mamoru Sawahashi. They have assembled what will be an exciting and stimulating program.

Finally, I wish to welcome you to Yokohama and VTC 2012-Spring.

Tracy L. Fulghum,
President, IEEE Vehicular Technology Society

1 As determined by its “impact factor”, an objective measure of quality of the journal based on citations.

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1A: Heterogeneous Networks

Chair: Dr. Lan Chen, DOCOMO Beijing Labs, China

1 **Voice-Centric LTE Femtocells and Improper Graph Colorings**
Luis Guilherme Uzeda Garcia, Aalborg Universitet, Denmark, Klaus I. Pedersen, Nokia Siemens Networks, Denmark, and Preben E. Mogensen, Aalborg Universitet & Nokia Siemens Networks, Denmark

2 **Dynamic Frequency Reservation Scheme for Interference Coordination in LTE-Advanced Heterogeneous Networks**
Jun Zhang, Hui Tian, Peng Tian, Yao Huang, and Liqi Gao, Beijing University of Posts and Telecommunications, Key Laboratory of Universal Wireless Communication, China

3 **Joint Base-Station Association, Channel Assignment, Beamforming and Power Control in Heterogeneous Networks**
Quan Kuang, Joachim Speidel, University of Stuttgart, Germany, and Heinz Droste, Deutsche Telekom AG, Germany

4 **Non-Unanimous Power Inter-cell Interference Coordination in Heterogeneous Networks**
Esraa Makled, Ahmed Ibrahim, Ahmed Darwish, and Hani El Gebali, Intel Corporation, Egypt

5 **A Cell-Planning Model for HetNet with CRE and TDM-ICIC in LTE-Advanced**
Shoji Kaneko, Takashi Matsunaka, and Yoji Kishi, KDDI R&D Laboratories Inc., Japan

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1B: MIMO Transmission

Chair: Prof. Olav Tirkkonen, Aalto University, Finland

1 **M-PSK Codebook Based Clustered MIMO-OFDM SDMA with Efficient Codebook Search**
Chang Kyung Sung, Hajime Suzuki, and Iain B. Collings, CSIRO, Australia

2 **Impact of gain/phase variation on MIMO precoder selection for LTE UL**
Chester Park, Ericsson, Inc., United States

3 **On the Quantization and Prediction for Precoded MIMO with Delayed Limited Feedback**
Dalin Zhu, and Ming Lei, NEC Labs China, China

4 **Precoding with Known Transmit Coupling and Spatial Covariance Matrices**
Jinhui Chen, Wei Fang, Fanglei Sun, Peng Shang, and Jun Wang, Alcatel-Lucent Shanghai Bell Co. Ltd, China

5 **On the Effect of Gaussian Imperfect Channel Estimations on the Performance of Space Modulation Techniques**
Raed Mesleh, University of Tabuk, Saudi Arabia, and Salama S. Ikki, INRS, Canada

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1C: Relaying 1

Chair: Prof. Jiangzhou Wang, University of Kent, UK

1 **Asymptotic Performance Analysis of AF Relaying in Two-Wave with Diffuse Power Fading Channels**
Yao Lu, and Xiaoxiang Wang, Beijing University of Posts and Telecommunications, China

2 **Distributed Optimization of Transceiver Weights in MIMO Two-way Multihop Networks**
Rindranirina Ramamonjison, Gia Khanh Tran, Kei Sakaguchi, and Kiyomichi Araki, Tokyo Institute of Technology, Japan

3 **Channel Prediction at the Destination for Relay Training Overhead Reduction in Cooperative Wireless Networks**
Wen-Ching Chung, Jwo-Yuh Wu, Rung-Hung Gau, and Chung-Ju Chang, National Chiao Tung University, Taiwan

4 **Error Performance of Opportunistic Relaying with Outdated Channel State Information**
Nien-En Wu, National Taiwan University, Taiwan, Po-Lin Yeh, Mstar Semiconductor, Taiwan, and Hsueh-Jyh Li, National Taiwan University, Taiwan

5 **Interference Alignment for Multi-User Multi-Way Relaying X Networks**
Wei Long, Tiejun Lv, Hui Gao, and Yueming Lu, Beijing University of Posts and Telecommunications, China

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1D: LTE

Chair: Prof. Hyuck M. Kwon, Wichita State University, USA

1 **Performance Study of an Enhanced Downlink Control Channel Design for LTE**
Michael Einhaus, Christian Wengerter, Jan Ohlhorst, and Sujuan Feng, Panasonic R&D Center Germany, Germany

2 **A Dynamic Hysteresis-adjusting Algorithm in LTE Self-Organization Networks**
Wenyu Li, Beijing University of Posts and Telecommunications, China Academy of Telecom. Research, MIIT, China, Xiaoyu Duan, Shucong Jia, Lin Zhang, Yu Liu, and Jiaru Lin, Beijing University of Posts and Telecommunications, China

3 **Performance Evaluation of End-to-End Communication Quality of LTE**
Liang Zhang, Takao Okamawari, and Teruya Fujii, Softbank Mobile Corp., Japan

4 **Realistic Performance of LTE in a macro-cell environment**
Jean-Baptiste Landre, Ziad El Rawas, Raphaël Visoz, and Sarah Bouguermouh, Orange, France

5 **Experimental analysis of TCP and UDP during LTE Handover**
Liang Zhang, Takao Okamawari, and Teruya Fujii, Softbank Mobile Corp., Japan

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1F: OFDM 1

Chair: Dr. Mohamed Moustafa , Akhbar El Yom Academy, Egypt

1 **A Low-Complexity CDD-based Frequency Selective Scheduling with Efficient Feedback for Downlink OFDMA Systems**
Yu-Fan Chen, National Chiao Tung University, Taiwan, Wern-Ho Sheen, Chaoyang University of Technology, Taiwan, and Li-Chun Wang, National Chiao Tung University, Taiwan

2 **Differential Evolution Algorithm Aided Minimum Symbol Error Rate Multi-user Detection for Multi-user OFDM/SDMA Systems**
Jiankang Zhang, Zhengzhou University, China, Sheng Chen, University of Southampton, United Kingdom, Xiaomin Mu, Zhengzhou University, China, and Lajos Hanzo, University of Southampton, United Kingdom

3 **Optimal Power Allocation in Spatial Modulation OFDM for Visible Light Communications**
Xiao Zhang, Svilen Dimitrov, Sinan Sinanovi´c, and Harald Haas, The University of Edinburgh, United Kingdom

4 **Novel Unipolar Orthogonal Frequency Division Multiplexing (U-OFDM) for Optical Wireless**
Dobroslav Tsonev, Sinan Sinanovic, and Harald Haas, University of Edinburgh, United Kingdom

5 **On Optimum Segment Combining Weight for ICI Self-Cancellation in OFDM Systems under Doubly Selective Fading Channels**
Chun-Ying Ma, Sheng-Wen Liu, and Chia-Chi Huang, National Chiao Tung University, Taiwan

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1G: Spectrum Sensing 1

Chair: Prof. Chin-Liang Wang, National Tsing Hua University, Taiwan

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Mohammad Azizur Rahman, Chunyi Song, and Hiroshi Harada, NICT, Japan

2 **The Idle Period Distribution for CSMA/CA Networks for Spectrum Sensing Applications**
Raymond Jayabal, Institute for Infocomm Research, Singapore, and Chiew Tong Lau, Nanyang Technological University, Singapore

3 **Prioritized Spectrum Sensing Scheme Based on Semi-Markov Process**
Bo Wang, Zhiyong Feng, Ping Zhang, and Dongyan Huang, Wireless Technology Innovation Institutes (WTI), Key Lab. of Universal Wireless Communications Ministry of Education, Beijing University of Posts and Telecommunications, China

4 **Design of a New Signal Structure for Active Sensing in Cognitive Radio Systems**
Han-Wei Chen, and Chin-Liang Wang, National Tsing Hua University, Taiwan

5 **A Complete Framework for Spectrum Sensing based on Spectrum Change Points Detection for Wideband Signals**
Wael Guibene, Eurecom, France, Aawatif Hayar, Universite Hassan II, Casablanca, Morocco, Morocco, Monia Turki, Ecole nationale d'ingénieurs de Tunis, Tunisia, and Dirk Slock, Eurecom, France

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1Pa: Positioning, Mobile Applications and Services Posters

1 **Hybrid TOA/AOA Cooperative Localization in Non-line-of-sight Environments**
Genming Ding, Zhenhui Tan, State Key Laboratory of Rail Traffic ControlSafety, China, Lingwen Zhang, Institute of Broadband Wireless Mobile Communications, China, Ziqi Zhang, State Key Laboratory of Rail Traffic ControlSafety, China, and Jinbao Zhang, EMC Laboratory, China

2 **Received Signal Strength Fingerprint and Footprint Assisted Indoor Positioning Based on Ambient Wi-Fi Signals**
Jenq-Shiou Leu, and Hung-Jie Tzeng, National Taiwan University of Science and Technology, Taiwan

3 **Calibration-free Approaches for Robust Wi-Fi Positioning Against Device Diversity: A Performance Comparison**
Shih-Hau Fang, Chu-Hsuan Wang, Sheng-Min Chiou, and Po-Chiang Lin, Yuan-Ze University, Taiwan

4 **Research on Context-Awareness Service Adaptation Mechanism in IMS under Ubiquitous Network**
Wen'an Zhou, Jie Chang, and Junde Song, Beijing University of Posts and Telecommunications, China

5 **Analysis on the accuracy of decision making systems for hypertension monitoring**
Di Lin, Fabrice Labeau, McGill University, Canada, Xidong Zhang, and GuiXia Kang, Ministry of Education, China

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1 **An automatic Empty Vehicle Detection systemfor Airport People Movers applications**
Joerg Schuette, Dresden University of Technology, Germany, Crawford Chris, Bombardier Transportation, United States, and Sven Scholz, Dresden University of Technology, Germany

2 **Gulliver: A Test-bed for Developing, Demonstrating and Prototyping Vehicular Systems**
Elad Michael Schiller, Mitra Pahlavan, and Marina Papatriantafilou, Chalmers University of Technology, Sweden

3 **Transport Commons: A community based public transport system**
Farzad Safaei, University of Wollongong, Australia

4 **Coexistence of Downlink High-Speed Railway Communication System with TDD-LTE Cellular Communication System**
Bingjun Han, Yinming Liang, Liang Huo, Xin Zhang, and Dacheng Yang, Beijing University of Posts and Telecommunications, China

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1Pc: Vehicular Electronics and Telematics Posters

1 **Realization of DBF-OFDM Transceiver for Vehicular Communication Using FPGA Chip**
Jeich Mar, and Chi-Cheng Kuo, Yuan-Ze University, Taiwan

2 **Energy-optimized driving with an autonomous vehicle in urban environments**
Falko Saust, Jörn Marten Wille, and Markus Maurer, Technische Universität Braunschweig, Germany

3 **A New Routing Protocol for Interference and Path-Length Minimization in Vehicular Networks**
Peppino Fazio, Mauro Tropea, Fiore Veltri, and Salvatore Marano, University of Calabria, Italy

4 **Load Balanced VANET Routing in City Environments**
Hosna Tashakkori Hashemi, and Siavash Khorsandi, Amirkabir University of Technology, Iran, Islamic Republic of

5 **A Method of Preventing Unauthorized Data Transmission in Controller Area Network**
Tsutomu Matsumoto, Masato Hata, Masato Tanabe, Katsunari Yoshioka, and Kazuomi Oishi, Yokohama National University, Japan

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2A: Radio Resource Management

Chair: Prof. Zhong Xiaofeng, Tsinghua University, China

1 **Elastic Game Based Radio Resource Management**
Kinda Khawam, Johanne Cohen, Dana Marinca, and Samir Tohme, Versailles University, France

2 **Advanced Power Saving Mechanism in IEEE 802.16m Wireless Metropolitan Area Networks**
Shiann-Tsong Sheu, Lu-Wei Chen, National Central University, Taiwan, and Jenhui Chen, Chang Gung University, Taiwan

3 **Joint Mode Selection and Power Allocation Schemefor Power-Efficient Device-to-Device (D2D)Communication**
Minchae Jung, Kyuho Hwang, and Sooyong Choi, Yonsei University, South Korea

4 **Downlink Radio Resource Management for LTE-Advanced System with Combined MU-MIMO and Carrier Aggregation Features**
Hung Tuan Nguyen, Aalborg University, Denmark, and Istvan Z. Kovacs, Nokia Siemens Networks, Denmark

5 **Radio Resource Allocation for Low-Medium-Altitude Aerial Platform Based TD-LTE Networks against Disaster**
Liqiang Zhao, Jiangtao Yi, Xidian University, China, Fumiyuki Adachi, Tohoku University, Japan, and Hailin Zhang, Xidian University, China

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2B: MIMO Channel Techniques

Chair: Prof. Wei Liu, Xidian University, China

1 **A design of transmit weights for non-regenerative multiuser MIMO relay system**
Cong Li, and Yasunori Iwanami, Nagoya Institute of Technology, Japan

2 **Analysis of CQI prediction for MU-MIMO in LTE Systems**
Biljana Badic, Rajarajan Balraj, Tobias Scholand, Intel Mobile Communications GmbH, Germany, Zijian Bai, and Stanislaus Iwelski, University of Duisburg-Essen, Germany

3 **Efficient Low Complexity Turbo Equalization with soft interference cancellation in MIMO system**
Wang Yanlong, Chang Yongyu, and Yang Dacheng, Beijing University of Posts and Telecommunications, China

4 **Minimum Mean Partial Interference Criterion for Serial Processing Structure of Equalizer and MLD in Multipath Fading MIMO Channel**
Tsuyoshi Hasegawa, Fujitsu Laboratories Ltd., Japan

5 **Ordered Precoder Designs for MIMO Interference Channels Based on Interference Alignment**
Wei Fang, Huan Sun, and Jinhui Chen, Alcatel-Lucent Shanghai Bell, China

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2C: Cooperative Communications with Network Coding

Chair: Prof. Soon Xin (Michael) Ng, University of Southampton, UK

1 **Near-Capacity FEC Codes for Non-Regenerative MIMO-Aided Relays**
Soon Xin Ng, University of Southampton, United Kingdom, Wei Liu, Jiandong Li, Xidian University, China, and Lajos Hanzo, University of Southampton, United Kingdom

2 **Multi-user Analog Network Coding with Spread Spectrum**
Shunfu Mao, Jangseob Kim, and Jungwoo Lee, Seoul National University, South Korea

3 **Throughput Optimization for MIMO Y Channels with Physical Network Coding and Adaptive Modulation**
Keov Kolyan Teav, Zhendong Zhou, and Branka Vucetic, The University of Sydney, Australia

4 **Joint Hierarchical Modulation and Network Coding for Two Way Relay Networks**
Rizwan Ahmad, and Mazen O. Hasna, Qatar University, Qatar

5 **Network synchronization scheme for scalable two-way multi-hop network employing MIMO network coding**
Yutaro Kida, Keiichi Mizutani, Gia Khanh Tran, Tokyo Institute of Technology, Japan, Takehiro Miyamoto, Nihon Dengyo Kosaku, Japan, Kei Sakaguchi, and Kiyomichi Araki, Tokyo Institute of Technology, Japan

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2D: Vehicular Ad-Hoc Network

Chair: Dr. Wen-Hsing Kuo, Yuan-Ze University, Taiwan

1 **Scalable VANET Simulations with NS-3**
Ricardo Fernandes, and Michel Ferreira, Instituto de Telecomunicações, DCC/FC - University of Porto, Portugal

2 **Performance Analysis of CSMA/CA Broadcast Relay Network for ITS V2V Communications**
Huiting Cheng, and Yasushi Yamao, Advanced Wireless Communication Research Center, the University of Electro-Communications, Japan

3 **Distance-Aware Routing with Copy Control in Vehicle-Based DTNs**
Wei-Zen Lo, Jhih-Siao Gao, and Shou-Chih Lo, National Dong Hwa University, Taiwan

4 **V-DESYNC: Desynchronization for Beacon Broadcasting on Vehicular Networks**
Tossaphol Settawatcharawanit, Supasate Choochaisri, Chalermek Intanagonwiwat, and Kultida Rojviboonchai, Chulalongkorn University, Thailand

5 **Light-Weight Reliable Broadcast Message Delivery for Vehicular Ad-hoc Networks**
Yoonyoung Sung, and Meejeong Lee, Ewha Womans University, Korea, Republic of

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2F: Transmission Techniques 1

Chair: Prof. Wu Yan, Eindhoven University of Technology, The Netherlands

1 **Fast Baseband Polynomial Inverse Algorithm for Nonlinear System Compensation**
Yuelin Ma, Yoshihiko Akaiwa, and Yasushi Yamao, University of Electro-Communications, Japan

2 **Frequency-Hopping/M-ary Frequency-Shift Keying Wireless Sensor Network Monitoring Multiple Source Events**
Fucheng Yang, and Lieliang Yang, University of Southampton, United Kingdom

3 **Gaussian Pulse Shape Optimization of BFDM in Time-Frequency Dispersive Channels**
Daisuke Goto, Takaya Yamazato, Nagoya University, Japan, and Bayarpurev Mongol, National University of Mongolia, Mongolia

4 **Orthogonal Signalling in the Gaussian Wiretap Channel in the Wideband Regime**
Ke Zhang, Miguel Rodrigues, Faculdade de Ciencias da Universidade do Porto / IT Porto, Portugal, Martin Tomlinson, Mohammed Ahmed, University of Plymouth, United Kingdom, and Francisco Cercas, Instituto de Telecomunicações/ISCTE-IUL, Portugal

5 **Performance Analysis of OOK Modulated Signals in the presence of ADC Quantization Noise**
Nauman Kiyani, Holst Centre/IMEC-NL, Netherlands, Pieter Harpe, Eindhoven University of Technology, Netherlands, and Guido Dolmans, Holst Centre/IMEC-NL, Netherlands

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2G: Interference Control

Chair: Prof.Satoshi Suyama, Tokyo Institute of Technology, Japan

1 **An Enhanced D-S Theory Cooperative Spectrum Sensing Algorithm against SSDF Attack**
Yong Han, School of Electronic Science and Engineering, National University of Defense Technology, Changsha, China, China

2 **Comparative Analysis on Interference Suppressive Transmission Schemes for White Space Radio Access**
Rohit Datta, Gerhard Fettweis, TU Dresden, Germany, Yasunori Futatsugi, and Masayuki Ariyoshi, NEC Corporation, Japan

3 **Interference avoidance transmission by partitioned frequency- and time-domain processing**
Yasunori Futatsugi, and Masayuki Ariyoshi, NEC Corporation, Japan

4 **Sensing-throughput Tradeoff in Cluster-based Cooperative Cognitive Radio Networks: A Novel Frame Structure**
Gaofeng Nie, Ying Wang, Gen Li, and Mingyue Xu, Wireless Technology Innovation Institute, Beijing University of Posts and Telecommunications, China

5 **Near-Optimal Spectrum Allocation for Cognitive Radio Networks**
Tsung-Cheng Wu, I-Shou University, Taiwan, Yaqing Mao, Beijing Jiaotong University, China, and Yi-Sheng Su, Chang Jung Christian University, Taiwan

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2P: Antennas and Propagation Posters

1 **A High Speed Channel Field Test Scheme based on Additional Baseband Processor**
Zaixue Wei, Yanhua Mou, Shuibing Wen, and Dacheng Yang, Beijing University of Posts and Telecommunications, China

2 **Disconnection Probability Improvement by using Artificial Multi Reflectors for Millimeter-wave Indoor Wireless Communications**
Hirokazu Sawada, Shunya Takahashi, and Shuzo Kato, Tohoku University, Japan

3 **Direct Learning Predistorter with A New Loop Delay Compensation Algorithm**
Zhengdai Li, Jingming Kuang, and Nan Wu, Beijing Institute of Technology, China

4 **Designs of the Monopole Slot Antenna Arrays Operated at the WLAN Band**
Chien-Jen Wang, National University of Tainan, Taiwan

5 **Simulation and Measurement of Narrow-Band Antennas for Small Terminals**
Mauro Pelosi, Ondrej Franek, Aalborg University, Denmark, Mikael Knudsen, Intel Mobile Communications Denmark Aps, Denmark, and Gert Pedersen, Aalborg University, Denmark

6 **A Novel Wideband Printed Diversity Antenna for Mobile Handsets**
Dongya Shen, Teng Guo, Fuqiang Kuang, Yunnan University, China, Xiupu Zhang, University of Concordia, , Canada, and Ke Wu, Montreal University, Canada

7 **Neural networks model of an UWB channel path loss in a mine environment**
Mina Kalakh, Nahi Kandil, and Nadir Hakem, UQAT-LRTCS, Canada

8 **Angle-dependent path loss measurements impacted by car body attenuation in 2.45 GHz ISM band**
Martin Blesinger, Erwin Biebl, Thomas Gehrsitz, Joerg Eerspaecher, Technische Universitaet Muenchen, Germany, Peter Fertl, Oliver Klemp, and Helmut Kellermann, BMW Forschung und Technik, Germany

9 **Outdoor Channel Characterization of MIMO-LTE Antenna Configurations through Measurements**
Christos Oikonomopoulos-Zachos, Taleb Ould, and Matthias Arnold, IMST GmbH, Germany

10 **MIMO Channel Model and Correlation Between Channel Matrix Elements in Multipath Channel**
Hiroaki Nakabayashi, Shota Igarashi, Tomohiro Hamashima, and Shigeru Kozono, Chiba Institute of Technology, Japan

11 **Decision-Directed MIMO Channel Tracking with Efficient Error Propagation Mitigation**
Emna Eitel, and Joachim Speidel, University of Stuttgart, Germany

12 **A Non-Stationary MIMO Channel Model for High-Speed Train Communication Systems**
Ammar Ghazal, Cheng-Xiang Wang, Heriot-Watt University, United Kingdom, Harald Haas, University of Edinburgh, United Kingdom, Mark Beach, University of Bristol, United Kingdom, Xiaofeng Lu, Huawei Technologies Co., Ltd., China, Dongfeng Yuan, Shandong University, China, and Xiaohu Ge, Huazhong University of Science and Technology, China

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3A: Cooperative Networks

Chair: Prof. Yaoqing (Lamar) Yang, University of Nebraska-Lincoln, USA

1 **Relay Placement of Two-Way Multi-Hop Relay Network with Power Adaptation in a Realistic Shadowing Environment**
Namzilp Lertwiram, Gia Khanh Tran, Kei Sakaguchi, and Kiyomichi Araki, Tokyo Institute of Technology, Japan

2 **A Proposal on Network Control Architecture for CoMP JT with IP Network between eNBs**
Takao Okamawari, Hideki Hayashi, and Teruya Fujii, Softbank Mobile Corporation, Japan

3 **Area Spectral Efficiency of Cooperative Network With Opportunistic Relaying**
Lei Zhang, University of Victoria, Canada, Mazen Hasna, Qatar University, Qatar, and Hong-Chuan Yang, University of Victoria, Canada

4 **Predictive Control for Energy Efficiency in Wireless Cellular Networks**
Shuhuan Wen, Yanshan University, China, and F. Richard Yu, Carleton University, Canada

5 **Sensor Integration to LTE/LTE-A Network through MC-CDMA and Relaying**
Feng Hu, Nandana Rajatheva, Matti Latva-aho, University of Oulu, Finland, and Xiaohu You, Southeast University, China

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3B: Green Systems

Chair: Dr. Andre F. dos Santos, Bell Labs, Alcatel-Lucent, Germany

1 **On the Impact of Sleep Modes and BW Variation on the Energy Consumption of Radio Access Networks**
Vinay Suryaprakash, Albrecht Fehske, Technische Universitaet Dresden, Germany, Andre Fonseca dos Santos, Bell Labs, Alcatel-Lucent, Germany, and Gerhard Fettweis, Technische Universitaet Dresden, Germany

2 **Enhancing Energy Efficiency in LTE with Antenna Muting**
Per Skillermark, and Pål Frenger, Ericsson AB, Sweden

3 **Power-Capacity-Tradeoff for Low Energy Interference Limited Cellular Networks**
Weisi Guo, and Tim O'Farrell, University of Sheffield, United Kingdom

4 **Dynamic Traffic Management for Green Open Access Femtocell Networks**
Antonio De Domenico, Rohit Gupta, and Emilio Calvanese Strinati, CEA-LETI Minatec, France

5 **Improving Network Energy Efficiency through Transmit Antenna Number and Transmission Mode Selection in Multicell Systems**
Shichao Li, and Ling Qiu, University of Science and Technology of China, China

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3C: Implementations

Chair: Dr. Julian Webber, Hokkaido University, Japan

1 **Experimental Evaluations on 4-by-2 MU-MIMO Achieving 1 Gbps Throughput Using AMC with Outer-Loop Threshold Control for LTE-Advanced Downlink**
Keisuke Saito, Yuichi Kakishima, Teruo Kawamura, Yoshihisa Kishiyama, NTT DOCOMO, Japan, Hidekazu Taoka, DOCOMO Communication Laboratories Europe GmbH, Germany, and Hidehiro Andoh, NTT DOCOMO, Japan

2 **Indoor Experiments of Real-Time MU-MIMO with CSI Feedback Scheme for Wireless LAN Systems**
Koichi Ishihara, Yusuke Asai, Riichi Kudo, Takeo Ichikawa, and Masato Mizoguchi, NTT, Japan

3 **Field Evaluations on a Prototype System of Cooperative Multi-Cell MIMO Transmission for Asynchronous Inter-Site Base Station Networks**
Manabu Mikami, Masayuki Miyashita, Haruya Miyajima, Kenji Hoshino, Hitoshi Yoshino, and Teruya Fujii, Softbank Mobile Corp., Japan

4 **11 GHz Band 4x4 MIMO-OFDM Broadband Experimental System for 5 Gbps Super High Bit-Rate Mobile Communications**
Satoshi Suyama, Hiroyuki Fukuda, Hiroshi Suzuki, and Kazuhiko Fukawa, Tokyo Institute of Technology, Japan

5 **Enhanced Virtual Antenna Mapping (E-VAM)**
Brendan McWilliams, Yannick Le Pézennec, Vodafone Group, Spain, Theodosia Papatheologou, Vodafone Group, United Kingdom, Luis Anaya, Julio Urbano, and Miguel Arranz, Vodafone Group, Spain

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3D: M2M Communications

Chair: Prof. Tommy Svensson, Chalmers University of Technology, Sweden

1 **Contention Based Access for Machine-type Communications over LTE**
Kaijie Zhou, Navid Nikaein, Raymond Knopp, and Christian Bonnet, Eurecom, France

2 **Asymmetric Uplink-Downlink Assignment for Energy-Efficient Mobile Communication Systems**
Peter Rost, Andreas Maeder, and Xavier Perez-Costa, NEC Laboratories Europe, Germany

3 **Effective Interference Cancellation Mechanisms for D2D Communication in Multi-Cell Cellular Networks**
Shaoyi Xu, Beijing Jiaotong University, China, Haiming Wang, Renesas Mobile R&D, China, and Tao Chen, Renesas Mobile R&D, Finland

4 **In-device Coexistence Interference Evaluation and Detection in LTE-A System**
Weiwei Wang, Yanling Lu, Haibo Xu, and Hua Zhou, Fujitsu R&D Center, China

5 **Coverage and Capacity Analysis for Machine Type Communications in LTE**
Rapeepat Ratasuk, Jun Tan, and Amitava Ghosh, Nokia Siemens Networks, United States

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3F: Parameter Estimation 1

Chair: Prof. Yasunori Iwanami, Nagoya Institute of Technology, Japan

1 **Efficient Link Quality Prediction for OFDM Systems**
Xiaoqin Wang, and Xin Wang, FUJITSU R&D CENTER CO., LTD., China

2 **Iterative Blind OFDM Parameter Estimation and Synchronization for Cognitive Radio Systems**
Jason Gejie Liu, Xianbin Wang, The University of Western Ontario, Canada, and Jean-Yves Chouinard, Laval University, Canada

3 **Joint Channel and Doppler Spread Estimation over Time-Varying Flat-Fading Channels**
Kai-Jie Yang, Chin-Liang Wang, and Yuh-Ren Tsai, National Tsing Hua University, Taiwan

4 **Low-Complexity Carrier Frequency Offset Estimation for Multiuser Offset QAM Filter Bank Multicarrier Systems Uplink**
Hamid Saeedi-Sourck, Isfahan University of Technology, Iran, Islamic Republic of, Yan Wu, J.W.M. Bergmans, Eindhoven University of Technology, Netherlands, Saeed Sadri, Isfahan University of Technology, Iran, Islamic Republic of, and Behrouz Farhang-Boroujeny, University of Utah, United States

5 **Sample-Autocorrelation-Function-Based Frequency Estimation of a Single Sinusoid in AWGN**
Hua Fu, and Pooi-Yuen Kam, National University of Singapore, Singapore

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3G: Antennas

Chair: Dr. Hironobu Hatamoto, Oki Electric Industry Co., Ltd, Japan

1 **The Effect of the User's Body on High-Q and Low-Q Planar Inverted F Antennas for LTE Frequencies**
Samantha Caporal Del Barrio, Mauro Pelosi, Ondrej Franek, and Gert F. Pedersen, Aalborg University, Denmark

2 **A CPW-fed Slot Antenna for Multiple Wireless Communication Systems**
Yang Tai, Chun-Ming Lin, Kai-Long Hsiao, National University of Tainan, Taiwan, Yun-Jui Lee, National Chiao Tung University, Taiwan, and Chien-Jen Wang, National University of Tainan, Taiwan

3 **A Novel Multi-beam Lens Antenna for High Altitude Platform Communications**
Run-nan Cai, Ming-chuan Yang, Xing-qi Zhang, Ming Li, and Xiao-feng Liu, Communication Research Center Harbin Institute of Technology, China

4 **Microstrip to Parallel Strip Balun as Spiral Antenna Feed**
Kalyany Vinayagamoorthy, Jacob Coetzee, and Dhammika Jayalath, Queensland University of Technology, Australia

5 **Miniaturized MIMO-PIFA with Pattern and Polarization Diversity**
Soham Ghosh, Thanh-Ngon Tran, and Tho Le-Ngoc, McGill University, Canada

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3Pa: Cognitive Radio and Spectrum Sensing Posters

1 **Pseudo BER based SNR Estimation for Energy Detection Scheme in Cognitive Radio**
Tian Tian, Hisato Iwai, and Hideichi Sasaoka, Doshisha University, Japan

2 **Sequential Cooperative Spectrum Sensing Technique for Cognitive Radio System in Correlated Channel**
Warit Prawatmuang, and Daniel K.C. So, University of Manchester, United Kingdom

3 **Optimal Queueing Control in Hybrid Overlay/Underlay Spectrum Access in Cognitive Radio Networks**
Cuong T. Do, Nguyen H. Tran, and Choong Seon Hong, Kyung Hee University, Korea, Republic of

4 **Utility-based Scheduling Algorithm for Multiple Services in OFDM Cognitive Radio Networks**
Qiongyao Li, Pengfei Lu, Zhongyuan Yu, Shijia Ma, and Wen'an Zhou, Beijing University of Posts and Telecommunications, China

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3Pb: Cooperative Communications, distributed MIMOs and Relaying Posters 1

1 **Cooperative ARQ with Fairness via Vickrey Auction-Based Spectrum Leasing**
Takuya Yamada, and Tomoaki Ohtsuki, Keio University, Japan

2 **On Reliable Multicast with Network coding-ARQ for Relay Cooperation Cells**
Qi Song, Yonghua Li, Zhiqiang He, and Jiaru Lin, Beijing University of Posts and Telecommunications, China

3 **Resource Allocation in User-Centric Wireless Networks**
Huseyin Haci, Huiling Zhu, and Jiangzhou Wang, University of Kent, United Kingdom

4 **Optimized Power Allocation Scheme for Land Mobile Satellite Cooperative Diversity Communications**
Xu Wang, Mingchuan Yang, and Qing Guo, Communication Research Center Harbin Institute of Technology, China

5 **Optimal and Suboptimal Power Allocations for MIMO based Multi-Hop OFDM Systems**
Yuan-Bin Lin, Wu-Hsiu Wu, and Yu T. Su, National Chiao Tung University, Taiwan

6 **Coverage-Extended Cooperative Geographic Routing with Optimal Power Allocation for Wireless Multihop Networks**
Syue-Ju Syue, Chin-Liang Wang, National Tsing Hua University, Taiwan, Vincent Gauthier, Telecom Sud Paris, France, and Pei-Shan Tsai, National Tsing Hua University, Taiwan

7 **Performance Analysis and Power Allocation of Multi-hop Multi-branch Relays with Data Storage over Generalized Fading Channels**
Sonia Sadeque, Simon Fraser University, Canada, Sami Muhaidat, Khalifa University of Science, Technology, Research, United Arab Emirates, and Rodney Vaughan, Simon Fraser University, Canada

8 **Performance Comparison of Relaying and User Cooperation in Multi-Cell Scenarios**
Fernando Sanchez, Nicolai Czink, and Thomas Zemen, FTW Telecommunications Research Center Vienna, Austria

9 **Compressed Channel Estimation for Sparse Multipath Non-orthogonal Amplify-and-forward Cooperative Networks**
Guan Gui, Wei Peng, Abolfazl Mehbodniya, and Fumiyuki Adachi, Tohoku University, Japan

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4A: Resource Allocation for Relaying 1

Chair: Prof. Shinsuke Ibi, Osaka University, Japan

1 **Power Allocation For Direct/Cooperative AF Relay Switched SC-FDMA**
Masayuki Nakada, Tatsunori Obara, Tetsuya Yamamoto, and Fumiyuki Adachi, Tohoku University, Japan

2 **Suboptimal Power Allocation for a Two-Path Successive Relay System with Full Interference Cancellation**
Chang-Chen Chu, Hung-Chin Wang, and Chin-Liang Wang, National Tsing Hua University, Taiwan

3 **Relaying with Deadline Constraint: Energy Minimization with Full Channel State Information**
Chin Keong Ho, Peng Hui Tan, and Sumei Sun, A*STAR, Singapore

4 **Inter-Sector Cooperative Relaying for Network Power Minimization**
Koichi Adachi, and Sumei Sun, Institute for Infocomm Research, Singapore

5 **Energy-Efficient Resource Optimization for Relay-Aided Uplink OFDMA Systems**
Yun Jiang, Jianhua Zhang, Xiaofan Li, and Wei Xu, Beijing University of Posts and Telecommunications, China

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4B: Estimation and Detection Techniques

Chair: Dr. Jianming Wu, Fujitsu Research and Development Center Co., LTD., China

1 **Training Symbol Design for Channel Estimation and IQ Imbalance Compensation in OFDM Systems**
Emmanuel Manasseh, Shuichi Ohno, and Masayoshi Nakamoto, Hiroshima university, Japan

2 **A Low-Complexity Semi-Blind Joint CFO and Data Estimation Algorithm for OFDM systems**
Kilbom Lee, Sung-Hyun Moon, and Inkyu Lee, Korea University, South Korea

3 **Improved Cell Search and Initial Synchronization Using PSS in LTE**
Zhongshan Zhang, University of ScienceTechnology Beijing (USTB), China, Ming Lei, NEC Laboratories China, China, Keping Long, University of ScienceTechnology Beijing (USTB), China, and Yong Fan, Beijing LOIT Technology, China

4 **A New Noise Variance Based Layered Pruning ML-DFE Algorithm**
Shubo Ren, Xinyu Mao, Jianjun Wu, and Haige Xiang, Institute of Modern Communications, PKU, China

5 **A New Method for Inter-Cell Interference Estimation in Uplink SC-FDMA Networks**
Fatima Zohra Kaddour, Telecom ParisTech, France, Emmanuelle Vivier, Institut Supérieur d'Electronique de Paris (ISEP), France, Mylene Pischella, Conservatoire National des Arts et Métiers (CNAM), France, and Philippe Martins, Telecom ParisTech, France

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4C: CoMP and Multiuser MIMO

Chair: Dr. Masayuki Hoshino, Panasonic Corporation, Japan

1 **Improved and Opportunistic Interference Alignment Schemes for Multi-Cell Interference Channels**
Tiangao Gou, UC Irvine, United States, Toshiaki Koike-Akino, and Philip Orlik, MERL, United States

2 **Efficient Feedback Design for Interference Alignment in MIMO Interference Channel**
Sungyoon Cho, Hyukjin Chae, Kaibin Huang, Dongku Kim, Yonsei University, South Korea, Vincent K. N. Lau, Hong Kong University of Science & Technology, Hong Kong, and Hanbyul Seo, LG Electronics, South Korea

3 **Incorporating Stiefel Geometry in Codebook Design and Selection for Improved Base Station Cooperation**
Renaud-Alexandre Pitaval, and Olav Tirkkonen, Aalto University, Finland

4 **New Interference Suppression Precoding Scheme for Downlink Multi-User Multi-Stream MIMO Systems**
Yanzhi Sun, Muqing Wu, and Qilin Guo, Beijing University of Posts and Telecommunications, China

5 **Sum Rate Maximizing Zero Interference Linear Multiuser MIMO Transmission**
Helka-Liina Määttänen, Renesas Mobile Europe Ltd, Finland, and Olav Tirkkonen, Aalto University School of Electrical Engineering, Finland

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4D: Cellular Networks 1

Chair: Dr. Michael Einhaus, Panasonic R&D Center Germany, Germany

1 **An Interference Coordination Scheme for Picocell Range Expansion in Heterogeneous Networks**
Che-Sheng Chiu, Chunghwa Telecom Laboratories, Taiwan, and Chia-Chi Huang, National Chiao Tung University, Taiwan

2 **Utility-based Dynamic Multi-service Bandwidth Allocation in Heterogeneous Wireless Networks**
Wenchao Fei, Hui Tian, and Rongrong Lian, Beijing University of Posts and Telecommunications, China

3 **Detection and Protection of Macro-Users in Dominant Area of Co-channel CSG Cells**
Yuanye Wang, Aalborg University, Denmark, Klaus Pedersen, and Frank Frederiksen, Nokia Siemens Networks, Denmark

4 **Impact of Path Loss Exponents on Antenna Location Design for GDAS**
Wence Zhang, Chunjuan Diao, Mei Zhao, and Ming Chen, National Mobile Communications Research Laboratory, Southeast University, China

5 **RACH Collision Probability for Machine-type Communications**
Ray-Guang Cheng, Chia-Hung Wei, NTUST, Taiwan, Shiao-Li Tsao, NCTU, Taiwan, and Fang-Ching Ren, ITRI, Taiwan

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4E: Modulation and Coding

Chair: Dr. Sumei Sun, Institute for Infocomm Research, Singapore

1 **Digital Compensation of Cross-Modulation Distortion in Multimode Transceivers**
H. Habibi, Y. Wu, E. J. G. Janssen, and J. W. M. Bergmans, Eindhoven University of Technology, Netherlands

2 **DS-CDMA with M-ary Orthogonal Modulation for Wireless Sensor Networks Simultaneously Monitoring Multiple Events**
Ee How Sim, and Lie-Liang Yang, University of Southampton, United Kingdom

3 **Factor Graph Based Joint Detection/Decoding for LDPC Coded Large-MIMO Systems**
Lakshmi Narasimhan T, Ananthanarayanan Chockalingam, and B. Sundar Rajan, Indian Institute of Science, India

4 **SNR-Adaptive Input Quantization for Turbo Decoding**
Injae Yoo, and In-Cheol Park, Korea Advanced Institute of Science and Technology (KAIST), Korea, Republic of

5 **Viterbi Demodulation in Two-Level FH-CDMA Wireless Systems Based on Reed-Solomon Codes**
Lun-Cheng Tsao, Hou-Shou Chen, Guu-Chang Yang, National Chung Hsing University, Taiwan, Cheng-Yuan Chang, National United University, Taiwan, and Wing C. Kwong, Hofstra University, United States

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4F: Vehicular Electronics and Telematics

Chair: Prof. Falko Dressler, University of Innsbruck, Austria

1 **Optimal Placement and Configuration of Roadside Units in Vehicular Networks**
Yingsi Liang, Hui Liu, and Dinesh Rajan, Southern Methodist University, United States

2 **On the Necessity of Accurate IEEE 802.11p Models for IVC Protocol Simulation**
David Eckhoff, FAU Erlangen, Germany, Christoph Sommer, and Falko Dressler, University of Innsbruck, Austria

3 **Achieving Data Utility Fairness in Periodic Dissemination for VANETs**
Ramon Schwartz, Anthony Ohazulike, and Hans Scholten, University of Twente, Netherlands

4 **An IEEE 802.11p based Distributed Channel Assignment Scheme Considering Emergency Message Dissemination**
I-Chiao Chu, Po-Yu Chen, and Wen-Tsuen Chen, National Tsing Hua University, Taiwan

5 **Experimental study of Bluetooth, ZigBee and IEEE 802.15.4 technologies on board high-speed trains**
Jorge Higuera, Elli Kartsakli, José Luis Valenzuela, Andrés Laya, Universitat Politecnica de Catalunya, Spain, Raquel Martinez, and Alicia Aguilar, ADIF, Spain

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4G: Extreme Propagation Environments

Chair: Prof. Samantha Caporal Del Barrio, Aalborg University, Denmark

1 **Novel Hybrid Propagation Model inside Tunnels**
Ke Guan, Zhangdui Zhong, Bo Ai, State Key Laboratory of Rail Traffic ControlSafety, Beijing Jiaotong University, China, and Cesar Briso-Rodriguez, Escuela Universitaria de Ingenieria Tecnica de Telecomunicacion, Universidad Politecnica de Madrid, Spain

2 **Statistical Evaluation of Multipath Component Lifetime in the Car-to-Car Channel at Urban Street Intersections Based on Geometrical Tracking**
Panagiotis Paschalidis, Kim Mahler, Andreas Kortke, Michael Peter, and Wilhelm Keusgen, Fraunhofer HHI, Germany

3 **Parametric Modeling of the Cross-Correlation for Large-Scale-Fading of Propagation Channels**
Xuefeng Yin, Xu Zhou, Zhifeng Zhang, Tongji University, China, Myung-Don Kim, ElectronicsTelecommunications Research Institute, Korea, Korea, Republic of, and Hyun Kyu Chung, Electronics and Telecommunications Research, Korea, Korea, Republic of

4 **Wind-Induced Slow Fading in Foliated Fixed Wireless Links**
Tien Han Chua, Ian Wassell, University of Cambridge, United Kingdom, and Tharek Abd. Rahman, Universiti Teknologi Malaysia, Malaysia

5 **Broadband Channel Measurement for the High-Speed Railway Based on WCDMA**
Jiahui Qiu, Cheng Tao, Liu Liu, and Zhenhui Tan, Institute of Broadband Wireless Mobile Communications, China

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4Pa: Ad-Hoc, Mesh and Sensor Networks Posters

1 **Iterative Distributed Amplitude Optimization for Distributed Detection in Wireless Sensor Networks**
Jeongseok Ha, KAIST, South Korea

2 **Fair Clustering for Energy Efficiency in a Cooperative Wireless Sensor Network**
Sungjin Park, Woongsup Lee, and Dong-ho Cho, KAIST, South Korea

3 **SNR-based Link Quality Estimation**
Wee Lum Tan, Peizhao Hu, NICTA, Australia, and Marius Portmann, University of Queensland, Australia

4 **Multi-Radio Multi-Channel Allocation in Competitive Wireless Ad hoc Networks**
Jingrong Wen, Muqing Wu, and Xiong Tang, Beijing University of Posts and Telecommunications, China

5 **Quadratic Estimation of Success Probability of Greedy Geographic Forwarding in Unmanned Aeronautical Ad-hoc Networks**
Rostam Shirani, Marc St-Hilaire, Thomas Kunz, Carleton University, Canada, Yifeng Zhou, Jun Li, and Louise Lamont, Communications Research Centre Canada, Canada

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4Pb: Green Networks Posters

1 **La VoLTE: novel cross Layer optimized mechanismof Video transmission over LTE for DRX**
Ritesh Kumar Kalle, Amar Kumar Nandan, and Debabrata Das, IIIT Bangalore, India

2 **Fast Control Channel Decoding for LTE UE Power Saving**
Mads Lauridsen, Anders Riis Jensen, and Preben Mogensen, Aalborg University, Denmark

3 **Long Term Evolution Downlink Packet Scheduling using A Novel Proportional-Fair-Energy Policy**
Charles Turyagyenda, Timothy O'Farrell, and Weisi Guo, The University of Sheffield, United Kingdom

4 **Energy savings in mobile broadband network based on load predictions: opportunities and potentials**
Saulius Samulevicius, Troels Bundgaard Sørensen, Torben Bach Pedersen, Aalborg University, Denmark, and Gilbert Micallef, Department of Electronic Systems, Denmark

5 **Energy Efficiency Evaluation of SISO and MIMO between LTE-femtocells and 802.11n Networks**
Siyi Wang, Weisi Guo, and Tim O'Farrell, The University of Sheffield, United Kingdom

6 **Energy Efficient Distributed Beamforming with Sensor Selection in Wireless Sensor Networks**
Duc To, Toan To, and Jinho Choi, Swansea University, United Kingdom

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4Pc: Wireless Access Posters 1

1 **Performance Enhancements in TDMA-based Tactical Wireless Networks**
Sewon Han, Hngik University, South Korea, Ji-Hoon Park, Hyun-Ho Shin, and Byung-Seo Kim, Hongik University, South Korea

2 **Code Detection in a CDMA-based Common Channel**
Yu-Feng Chou, Ray-Guang Cheng, National Taiwan University of ScienceTechnology, Taiwan, and Fang-Ching Ren, ITRI, Taiwan

3 **Low PAPR Precoding Design with Dynamic Channel Assignment for SCBT System**
Juinn-Horng Deng, Sheng-Yang Huang, and Jeng-Kuang Hwang, Yuan-Ze university, Taiwan

4 **Interference Cancellation and Coordination Scheme for Sounding Reference Signal in Multiple-beam Mobile Satellite Communication System**
Ying Si, Yadan Zheng, Shubo Ren, and Jianjun Wu, Institution of Advanced Communications, PKU, China

5 **Opportunistic Multicast Scheduling with Coding in OFDM-based Wireless Cellular Networks**
Mingming Li, Xiaoxiang Wang, Hongtao Zhang, and Mingwei Tang, Beijing University of Posts and Telecommunications, China

6 **Coordinated in-band ad-hoc transmission underlying cellular networks**
Junyi FENG, Samir SAOUDI, Telecom Bretagne, France, Letian RONG, and Thomas DERHAM, Orange Labs Tokyo, Japan

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5A: MIMO Channel Techniques for UMTS

Chair: Prof. Zhang Zhongshan, University of Science and Technology Beijing, China

1 **Enhancements to MIMO Enabled Cells in WCDMA Cellular Systems**
Zbigniew Matuszewski, Michal Panek, Przemyslaw Czerepinski, Nokia Siemens Networks, Poland, Terence Dodgson, and Thomas Chapman, Roke Manor Research, United Kingdom

2 **Evaluation of MIMO Transmission for HSUPA**
Roman Maslennikov, Sitronics Labs, Russian Federation, Przemyslaw Czerepinski, Nokia Siemens Networks, Poland, Mikhail Shkerin, Alexey Trushanin, Mikhail Shashanov, and Vyacheslav Shumilov, Sitronics Labs, Russian Federation

3 **Field Experiments on Closed-Loop SU-MIMO Transmission Considering Effect of Antenna Configurations in LTE-Advanced Uplink**
Shinpei Yasukawa, Teruo Kawamura, Yoshihisa Kishiyama, NTT DOCOMO, Inc., Japan, Hidekazu Taoka, DOCOMO Communications Laboratories Europe GmbH, Germany, and Hidehiro Andoh, NTT DOCOMO, Inc., Japan

4 **System Evaluation of MU-MIMO and Multi-cluster Allocation in LTE-Advanced Uplink**
Akihiko Nishio, Panasonic Corporation, Japan, Takashi Iwai, Atsushi Matsumoto, Panasonic Mobile Communications R&D Lab. Co., Ltd., Japan, and Daichi Imamura, Panasonic Corporation, Japan

5 **Study of Leakage-Based Precoding Scheme that Supports Coordinated Multi-Point Operation for LTE**
Masayuki Hoshino, Panasonic Corporation, Japan, Hui Tong, Panasonic R&D Center China, China, Tomohumi Takata, Panasonic Mobile Communications R&D Lab. Co., Ltd., Japan, Yasuaki Yuda, and Daichi Imamura, Panasonic Corporation, Japan

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5B: Wireless Networks

Chair: Prof. Hiraku Okada, Nagoya University, Japan

1 **CARLA: Combining Cooperative Relaying and LinkAdaptation for IEEE 802.11 Wireless Networks**
Li Li, University of Bristol, United Kingdom, Zhong Fan, Toshiba Research Europe Limited, United Kingdom, and Dritan Kaleshi, University of Bristol, United Kingdom

2 **Effects of relaying on network lifetime in 2.4GHz IEEE802.15.4 based body area networks**
Pooyan Abouzar, Kaveh Shafiee, David G. Michelson, and Victor C.M. Leung, University of British Columbia, Canada

3 **New Results on the Connectivity in Wireless Ad Hoc Networks**
Min-Kuan Chang, Che-Ann Shen, and Min-Han Chuang, National Chung Hsing University, Taiwan

4 **Dynamic Quota-Based Routing in Delay-Tolerant Networks**
Shou-Chih Lo, and Wei-Rong Liou, National Dong Hwa University, Taiwan

5 **Dijkstra-Based Higher Capacity Route Selection Algorithm Using Bounded Length and State Change for Automobiles**
I-Te Lin, Keio University, Japan, Dilip Sarkar, University of Miami, United States, Tutomu Murase, NEC Corporation, Japan, and Iwao Sasase, Keio University, Japan

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5C: Cognitive Networks

Chair: Dr. Hiromasa Fujii, NTT DOCOMO, INC., Japan

1 **Adaptive Weighted Scheduling in Cognitive Radio Networks**
Feng Wang, Weihua Zuang, University of Waterloo, Canada, Mikael Gidlund, ABB AB, Corporate Research, Sweden, Stephen Culver, and Dong Xuanming, NokiaSiemens Networks, Denmark

2 **Partial Relay Selection in Underlay Cognitive Networks with Fixed Gain Relays**
Syed Imtiaz Hussain, Texas A&M University at Qatar, Qatar, Mohamed-Slim Alouini, King Abdullah University of Science and Technology, Saudi Arabia, Mazen Hasna, Qatar University, Qatar, and Khalid Qaraqe, Texas A&M University at Qatar, Qatar

3 **A congestion avoidance routing protocol for cognitive scale-free networks**
Min Sheng, Yan Shi, and ChangWan Peng, Xidian University, China

4 **Secondary Spectrum Access Based on Cooperative OFDM Relaying**
Weidang Lu, Xuanli Wu, Qingzhong Li, and Naitong Zhang, School of Electronics and Information Engineering, Harbin Institute of Technology, China

5 **Secondary Spectrum Sharing in Primary Multicasting Systems**
Jung-Hwa Wui, Hanyang University, Korea, Republic of

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5D: Relaying 2

Chair: Prof. Lie-Liang Yang, University of Southampton, UK

1 **Frequency Offset and Channel Estimation in Co-Relay Cooperative OFDM Systems**
Zhongshan Zhang, Jian Liu, Keping Long, University of ScienceTechnology Beijing (USTB), China, and Yong Fan, Beijing LOIT Technology Ltd, China

2 **Decoding Schemes for Amplify-and-Forward Cooperative OFDM-Based Wireless LAN Systems**
Hayato Fukuzono, NTT Network Innovation Laboratories, NTT Corporation, Japan

3 **Bit-Wise Partial Noise Elimination in Cooperative Decode-Amplify-Forward Relay Node**
Shinsuke Ibi, Naoyuki Takada, and Seiichi Sampei, Osaka University, Japan

4 **Non-regenerative Multi-way Relaying: Ordered MMSE-SIC Receivers Exploiting Temporal Diversity**
Jianfei Cao, and Zhangdui Zhong, State Key Lab. of Rail Traffic Control and Safety, Beijing Jiaotong University, China

5 **Regenerative Multi-way Relaying: Relay Precoding and Ordered MMSE-SIC Receiver**
Jianfei Cao, Zhangdui Zhong, and Fanggang Wang, Beijing Jiaotong University, China

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5E: WiMAX/WLAN

Chair: Prof. Sourav Dhar, Sikkim Manipal Institute of Technology, India

1 **A Data Mapping Algorithm for Two-Level Requests in WiMAX Systems**
Tsern-Huei Lee, Chi-Hsien Liu, Arleth Soleiy Garth Campbell, National Chiao Tung University, Taiwan, and Yaw-Wen Kuo, National Chi Nan University, Taiwan

2 **A Performance Comparison of Mobile WiMAX Spectrums: 2.5 GHz vs. 3.65 GHz**
Pradhumna Shrestha, Michael Hempel, Puttipong Mahasukhon, Tao Ma, and Hamid Sharif, University of Nebraska-Lincoln, United States

3 **Performance Evaluation of Audio-Video Telephony in WiMAX Networks**
Young-June Choi, and Kyungtae Kim, Ajou University, Korea, Republic of

4 **Delayed Contention DCF MAC Protocol for IEEE 802.11 Wireless LANs**
Yaw-Wen Kuo, and Wei-Fu Lu, National Chi Nan University, Taiwan

5 **Measuring VoIP Performance in IEEE 802.11p Vehicular Networks**
Francesca Martelli, M. Elena Renda, Paolo Santi, IIT - CNR, Italy, and Marco Volpetti, Università degli Studi di Pisa, Italy

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5F: Interference Mitigation 1

Chair: Prof. Witold A. Krzymień, University of Alberta, Canada

1 **A Low Complexity Interference Suppression Scheme for High Mobility STBC-OFDM Systems**
Chorng-Ren Sheu, Jia-Wei Liu, Chuan-Yuan Huang, Industrial Technology Research Institute, Taiwan, and Chia-Chi Huang, National Chiao Tung University, Taiwan

2 **A Novel Subspace Decomposition-Based Detection Scheme with Soft Interference Cancellation for OFDMA Uplink**
Yung-Ping Tu, Wen-Hsien Fang, and Yie-Tarng Chen, National Taiwan University of Science and Technology, Taiwan

3 **Inter-Signal Interference Cancellation Filter for Four-Element Single Sideband Modulation**
Yi Jiang, Zhenyu Zhou, Waseda University, Japan, Masahiko Nanri, Panasonic Mobile Communications Co., Ltd., Japan, Gen-Ichiro Ohta, and Takuro Sato, Waseda University, Japan

4 **IQ Imbalance Estimation Scheme with Intercarrier Interference Self-Cancellation Pilot Symbols in OFDM Direct Conversion Receivers**
Hiroyuki Miyashita, Mamiko Inamori, Yukitoshi Sanada, Keio University, Japan, and Teruji Ide, Kagoshima National College of Technology, Japan

5 **Non-orthogonal Access Scheme over MultipleChannels with Iterative Interference Cancellation and Fractional Sampling in OFDM Receiver**
Hiroyuki Osada, Mamiko Inamori, and Yukitoshi Sanada, Keio University, Japan

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5G: Positioning

Chair: Prof. Shinsuke Hara, Osaka City University, Japan

1 **Probabilistic Neural Network For RSS-Based Collaborative Localization**
Peisen Zhao, Chunxiao Jiang, Tsinghua University, China, Hongyang Chen, The University of Tokyo, Japan, and Yong Ren, Tsinghua University, China

2 **A GPS pseudorange based cooperative vehicular distance measurement technique**
Daiqin Yang, Nanyang Technological University, Singapore, Fang Zhao, Singapore-MIT Alliance for Research & Technology, Singapore, Kai Liu, Hock Beng Lim, Nanyang Technological University, Singapore, Emilio Frazzoli, and Daniela Rus, Massachusetts Institute of Technology, United States

3 **A Calibration-free RSS-based Mobile Positioning System**
Shih-Hau Fang, Ying-Tso Hsu, Bo-Cheng Lu, and Wen-Hsing Kuo, Yuan-Ze University, Taiwan

4 **Study of TOA Positioning using UWB Reflected Waves**
Masaru Shimizu, Takayuki Fujiwara, and Shinji Uebayashi, Chukyo University, Japan

5 **Location-aided Multi-user Beamforming for 60 GHz WPAN Systems**
Congzheng Han, Xiaoyi Zhu, Angela Doufexi, University of Bristol, United Kingdom, and Taskin Kocak, Bahcesehir University, Turkey

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5P: Multiple Antenna Systems and Space-Time-Frequency Processing Posters

1 **A simple proof of the generalized optimum continuous running-approximation based on a class of multi-legged-type signals**
Yuichi Kida, Ohu University, Japan, and Takuro Kida, Tokyo Institute of Technology, Japan

2 **Sum Rate of p-Sphere Encoding for MIMO Broadcast Channels with Reduced Peak Power**
Mahmood Mazrouei-Sebdani, and Witold Krzymień, University of Alberta /TRLabs, Canada

3 **Reduced-Complexity Single-Carrier E-SDM for Wideband Transmissions**
Cristian Davidescu, Yasutaka Ogawa, Julian Webber, Toshihiko Nishimura, and Takeo Ohgane, Hokkaido University, Japan

4 **Multi-Antenna Selection using Space Shift Keyingin MIMO Systems**
Wei-Ho Chung, and Cheng-Yu Hung, Academia Sinica, Taiwan

5 **Joint SVD-GSVD Precoding Technique and Secrecy Capacity Lower Bound for the MIMO Relay Wire-tap Channel**
Marouen Jilani, and Tomoaki Ohtsuki, Keio University, Japan

6 **Power Allocation Algorithms for ZF-THP Sum Rate Optimization in Multi-user Multi-antenna Systems**
Wookbong Lee, Changick Song, Sangrim Lee, Kilbom Lee, Korea University, South Korea, Jin Sam Kwak, LG Electronics, , South Korea, and Inkyu Lee, Korea University, South Korea

7 **Proportionally Fair User Scheduling for Multiuser MIMO Systems with Unequal Average SNR Users**
Yuyuan Chang, and Kiyomichi Araki, Tokyo Institute of Technology, Japan

8 **MLD-based MU-MIMO Detection Scheme for LTE Downlink**
Chimato Koike, Daisuke Ogawa, Takashi Seyama, and Takashi Dateki, Fujitsu Laboratories Ltd., Japan

9 **A New MIMO detection algorithm based on the Gaussian graphical model**
Mohammed Teeti, Ying Zhuang Liu, and Jun Sun, Huazhong University of Science and Technology, China

10 **HARQ Throughput Performance of Training Sequence Aided SC-MIMO Using Reduced Complexity ML Block Detection**
Tetsuya Yamamoto, and Fumiyuki Adachi, Tohoku University, Japan

11 **Simulation Analysis of Wireless Channel Effect on IEEE 802.11n Physical Layer**
Ali Bouhlel, Valéry Guillet, Orange Labs, France, Ghais El Zein, and Gheorghe Zaharia, INSA RENNES, France

12 Impact of Base Station Antenna Tilt on the Performance of Network MIMO Systems
Nima Seifi, Chalmers University of Technology, Sweden, Mikael Coldrey, Ericsson AB, Sweden, Michail Matthaiou, and Mats Viberg, Chalmers University of Technology, Sweden

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6A: LTE and LTE-Advanced 1

Chair: Dr. Peter Rost, NEC Europe Labs

1 **Simple Channel Predictors for Lookahead Scheduling**
Thomas Werthmann, Matthias Kaschub, Magnus Proebster, Universität Stuttgart, Germany, and Stefan Valentin, Bell Labs, Alcatel-Lucent, Germany

2 **Improved Detection of ACK/NACK Messages in the LTE Uplink Control Channel**
Danyo Danev, Yi Wu, and Erik G. Larsson, Linköping University, Sweden

3 **Traffic-based DRX Cycles Adjustment Scheme for 3GPP LTE Systems**
Yu-Ping Yu, and Kai-Ten Feng, National Chiao Tung University, Taiwan

4 **Self-Optimisation of Antenna Beam Tilting in LTE Networks**
Rouzbeh Razavi, Bell Labs, Alcatel-Lucent, Ireland

5 **Auto-Tuning of Downlink Power of LTE Femtocells Adaptive to Various Interference Conditions**
Motoki Morita, Yasuhiko Matsunaga, and Kojiro Hamabe, NEC Corporation, Japan

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6B: Scheduling and Resource Control

Chair: Dr. Yasuhiko Tanabe, Toshiba Corporation, Japan

1 **A Frequency-domain Sounding Scheme for LTE TDD Beamforming Systems**
baolong zhou, Shanghai Jiaotong University, Alcatel-Lucent Shanghai Bell, China, Lingge Jiang, Shanghai Jiaotong University, China, Shengjie Zhao, Lu Zhang, Alcatel-Lucent Shanghai Bell, China, Chen He, Shanghai Jiaotong University, China, Zhining Jiang, and Kun zhao, Alcatel-Lucent Shanghai Bell, China

2 **Long Step User Selection Algorithm for Unitary Beamforming**
Yan Li, Yi Sun, and Feng Zhou, Dalian University Of Technology, China

3 **Reduced Complexity Joint User and Receive Antenna Selection Algorithms for SLNR-based Precoding in MU-MIMO Systems**
Piya Patcharamaneepakorn, Angela Doufexi, and Simon Armour, University of Bristol, United Kingdom

4 **Efficient Channel Estimation Method for MIMO Antenna Selection Systems Exploiting Temporal Correlation of Channel**
Yousuke Naruse, and Jun-ichi Takada, Tokyo Institute of Technology, Japan

5 **Performance of Outer-Loop Control for AMC Based on Mutual Information in MIMO-OFDM Downlink**
Teppei Ebihara, Tokyo City University, Japan, Hidekazu Taoka, DOCOMO Communications Laboratories Europe GmbH, Germany, Nobuhiko Miki, NTT DOCOMO, Japan, and Mamoru Sawahashi, Tokyo City University, Japan

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6C: Cooperative MIMO

Chair: Dr. Takahiro Asai, NTT DOCOMO, INC., Japan

1 **Error Compensated MMSE-based Multi-User Precoding for Coordinated Multi-Point Transmission**
Dennis Hui, and Kambiz Zangi, Ericsson Research, United States

2 **On the Frequency Allocation for Coordinated Multi-Point Joint Transmission**
June Hwang, Seung Min Yu, Seong-Lyun Kim, Yonsei university, South Korea, and Riku Jantti, Aalto university, Finland

3 **Improving Throughput by Multi-cell Coordinated Vertical Plane Beam Control with Pre-coding**
Kenji Hoshino, and Teruya Fujii, Softbank Mobile Corp., Japan

4 **Iterative Inter-Cluster Interference Cancellation for Cooperative Base Station Systems**
Kazuki Maruta, Atsushi Ohta, Masataka Iizuka, and Takatoshi Sugiyama, NTT Access Network Service Systems Laboratories, Japan

5 **Design of Delay-Tolerant Space-time Codes with Linear MMSE Receivers**
Wenjin Wang, and Fu-Chun Zheng, University of Reading, United Kingdom

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6D: Green Technology

Chair: Dr. Pål Frenger, Ericsson AB, Sweden

1 **A Measurement Based Energy Model for IEEE 802.16e Mobile WiMAX Devices**
Bjoern Dusza, Christoph Ide, and Christian Wietfeld, TU Dortmund University, Germany

2 **Power Allocation in Energy Harvesting Relay Systems**
Imtiaz Ahmed, Aissa Ikhlef, Robert Schober, University of British Columbia, Canada, and Ranjan K. Mallik, Indian Institute of Technology, Delhi, India

3 **Energy Saving Dynamic Relaying Scheme in Wireless Cooperative Networks Using Markov Decision Process**
Yifei Wei, Chaowei Wang, Mei Song, Yue Ma, Beijing University of PostsTelecommunications, China, and Xiaojun Wang, Dublin City University, Ireland

4 **Design of Predistorter Using Measured Nonlinear Characteristics of Power Amplifier with Memory Effect**
Yasuyuki Oishi, Shigekazu Kimura, Eisuke Fukuda, Takeshi Takano, Fujitsu Laboratories Ltd., Japan, Daisuke Takago, Yoshimasa Daido, Kanazawa Institute of Technology, Japan, and Kiyomichi Araki, Tokyo Institute of Technology, Japan

5 **Optimization of broadcasting scheme for the CASoRT system**
Shuo Hou, Xiaofeng Zhong, and Shunliang Mei, Tsinghua University, China

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6E: Femtocell Networks

Chair: Dr. Yoshihisa Kishiyama, NTT DOCOMO, Japan

1 **Secure and Multihomed Vehicular Femtocells**
Suneth Namal, Jani Pellikka, and Andrei Gurtov, University of Oulu, Finland

2 **Learning-based Cell Selection Method for Femtocell Networks**
Chaima Dhahri, and Tomoaki Ohtsuki, Keio University, Japan

3 **A Novel Coordinated Spectrum Assignment Scheme for Densely Deployed Enterprise LTE Femtocells**
Yi Wu, Hai Jiang, and Dongmei Zhang, Nokia Siemens Networks, China

4 **Incentive Mechanism for Uplink Interference Avoidance in Two-Tier Macro-Femto Networks**
Zhu Xiao, Peng Wang, Xu Zhang, Shyam Mahato, University of Bedfordshire, United Kingdom, Lei Chen, Ranplan Wireless Network Design Ltd, UK, United Kingdom, and Jie Zhang, University of Sheffield, United Kingdom

5 **Fuzzy Logic Controllers for Traffic Sharing in Enterprise LTE Femtocells**
J. M. Ruiz-Aviles, S. Luna-Ramirez, M. Toril, and F. Ruiz, University of Malaga, Spain

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6F: Parameter Estimation 2

Chair: Prof. Yukitoshi Sanada, Keio University, Japan

1 **Factor-Graph-Based Iterative Receiver Design in the Presence of Strong Phase Noise**
Hongjie Zhao, Nan Wu, Hua Wang, and Jingming Kuang, Beijing Institute of Technology, China

2 **Low Complexity SNR Estimation for Linear Modulations on AWGN Channel**
Chaoxing Yan, Hua Wang, Nan Wu, and Jingming Kuang, Beijing Institute of Technology, China

3 **Stochastic NDA CRLB for DOA Estimation over SIMO Systems**
Faouzi Bellili, Achref Methenni, Sofiene Affes, INRS-EMT, Canada, and Alex Stephenne, Huawei Canada, Canada

4 **Theoretical Study of the Impact of Channel Estimation Errors on the Performance of IDMA Detectors**
Manouane Caza-Szoka, Adel Omar Dahmane, Universite du Quebec à Trois-Rivieres, Canada, Claude D'Amours, University of Ottawa, Canada, and Frederic Domingue, Universite du Quebec à Trois-Rivieres, Canada

5 **Unsupervised Bit Error Rate Estimation Using Maximum Likelihood Kernel Methods**
jia dong, Samir Saoudi, TELECOM BRETAGNE, France, and Tarik Ait-Idir, INPT, Morocco

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6G: Wireless Sensor Networks 1

Chair: Prof. Takaya Yamazato, Nagoya University, Japan

1 **Long Duration Broadcast Authentication for Wireless Sensor Networks**
Yongsheng Liu, Jie Li, University of Tsukuba, Japan, and Minyi Guo, Shanghai Jiao Tong University, China

2 **Energy-efficient Barrier Coverage in WSNs with Adjustable Sensing Ranges**
Han Xu, Bang Wang, Wenyu Liu, and Changqing Wang, Huazhong University of Science and Technology, China

3 **TBRA: Termites Based Routing Algorithm in 3D Wireless Sensor Networks**
Mu-Sheng Lin, Jenq-Shiou Leu, Wen-Chi Yu, Kuen-Han Li, National Taiwan University of Science and Technology, Taiwan, and Jean-Lien C. Wu, St. John's University, Taiwan

4 **Implicit Location Update Enhanced Reliability for Mobile Sinks in WSNs**
Yongbin Yim, Hosung Park, Jeongcheol Lee, Seungmin Oh, and Sang-Ha Kim, Chungnam National University, Korea, Republic of

5 **In-Network Local Distributed Estimation for Power-constrained Wireless Sensor Networks**
Santosh Shah, and Baltasar Beferull-Lozano, Universidad de Valencia, Spain

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6P: Transmission Technologies Posters

1 **Algorithm-Architecture Co-Optimization of Area-Efficient SDR Baseband for Highly Diversified Digital TV Standards**
Kiyotaka Kobayashi, Hidekuni Yomo, Panasonic Corporation, Japan, Min Li, Raf Appeltans, Hans Cappelle, Amir Amin, Aissa Couvreur, Matthias Hartmann, André Bourdoux, Praveen Raghavan, Antoine Dejonghe, and Liesbet Van der Perre, Imec, Belgium

2 **N-ary Biorthogonal Pulse Position Shape Modulation for Hybrid TH/DS Multiple Access UWB System**
Ye-Shen Shen, National Formosa University, Taiwan, Fang-Biau Ueng, National Chung Hsing University, Taiwan, Wen-Min Kao, National Formosa University, Taiwan, and Jui-Chi Chang, National Chung Hsing University, Taiwan

3 **Space-Time-Frequency Trellis Coding for Multiband OFDM Ultra Wideband Wireless Systems**
Phuc Le Ngoc, Le Chung Tran, and Farzad Safaei, University of Wollongong, Australia

4 **Physical-layer Network Coding using FSK Modulation under Frequency Offset**
Terry Ferrett, West Virginia University, Morgantown, WV, USA, United States, Hideki Ochiai, Yokohama National University, Japan, and Matthew Valenti, West Virginia University, Morgantown, WV, USA, United States

5 **Transmission of discrete constellations under strong interference**
Dimitrios-Alexandros Toumpakaris, University of Patras, Greece, Jungwon Lee, Samsung Electronics, United States, and Rizwan Ghaffar, University of Waterloo, Canada

6 **Adaptive Linearization Through Narrowband Feedback**
Alexander Lozhkin, and Michiharu Nakamura, Fujitsu Laboratories Ltd., Japan

7 **A Novel SLM Method for PAPR Reduction of OFDM System**
Lei Ning, Mingchuan Yang, Zhenyong Wang, and Qing Guo, Communication Research Center Harbin Institute of Technology, China

8 **A Low Complexity Multiuser Interference Compensation Scheme for OFDMA Uplink**
Yang Zhang, Jiandong Li, Lihua Pang, and Qin Liu, Xidian University, China

9 **Iterative Timing Recovery with Turbo Decoding at Very Low SNRs**
Jianrong Bao, Minjian Zhao, Jie Zhong, and Yunlong Cai, Zhejiang University, China

10 **A Novel Hardware Implementation Mechanism for AR4JA Codes in Deep Space Communication**
Ming Li, Mingchuan Yang, Xingqi Zhang, and Qing Guo, Communication Research Center Harbin Institute of Technology, China

11 **Communications Receivers Employing Wavelet-Domain Zero-Forcing Equalization of Multipath Fading Channels**
Canute Vaz, and David Daut, Rutgers, The State University of New Jersey, United States

12 **Enhanced DFT-based Channel Estimation for LTE Uplink**
Meilong Jiang, Guosen Yue, Narayan Prasad, and Sampath Rangarajan, NEC Labs America, United States

13 **An Adaptive MIMO Detection Approach for LTE Advanced Uplink**
Jijian Chen, and Xinsheng Zhao, Southeast University, China

14 **Research on the Performance of Noisy Chaotic Neural Network based on Travelling Salesman Problem**
Haibo Zhang, Xiaoxiang Wang, and Hongtao Zhang, Beijing University of Posts and Telecommunications, China

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7A: Practical Aspects of Cognitive Radio

Chair: Dr. Ha-Nguyen Tran, NICT, Japan

1 **Channel-Based Detection of Primary User Emulation Attacks in Cognitive Radios**
Wen-Long Chin, Chun-Lin Tseng, Chun-Shen Tsai, Wei-Che Kao, and Chun-Wei Kao, National Cheng Kung University, Taiwan

2 **A Reduced-Complexity Multiband MIMO Receiver with Estimation of Analog Devices Imperfection**
Tomoya Ohta, Kyoto University, Japan, Satoshi Denno, Okayama University, Japan, and Masahiro Morikura, Kyoto University, Japan

3 **Non-Linear Distortion Noise Control by Clipping and Filtering in Spectrum Sharing Systems**
Seiichiro Okamoto, Shigeru Tomisato, Okayama University, Japan, Hiromasa Fujii, NTT DOCOMO, Inc., Japan, Masaharu Hata, Okayama University, Japan, Shunji Miura, and Hidetoshi Kayama, NTT DOCOMO, Inc., Japan

4 **Efficient Coding Scheme for Broadcast Cognitive Pilot Channel in Cognitive Radio Networks**
Qixun ZHANG, Zhiyong FENG, and Ping ZHANG, Beijing University of Posts and Telecommunications, China

5 **Reducing load of geo-location database by querying with secondary user's preferred channels**
Ha-Nguyen Tran, Yohannes D. Alemseged, Chen Sun, and Hiroshi Harada, NICT, Japan

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7B: Cellular Networks 2

Chair: Dr. Hong Yang, Bell Laboratories, Alcatel-Lucent, USA

1 **Base Station Placement Based on Force Fields**
Fred Richter, and Gerhard Fettweis, Technische Universitaet Dresden, Germany

2 **Ping-pong Reduction using Sub cell Movement Detection**
Zoltán Fehér, Budapest University of Technology and Economics, Hungary, András Veres, Ericsson Hungary LTD., Hungary, and Zalán Heszberger, Budapest University of Technology and Economics, Hungary

3 **GSM/GPRS Bearers Efficiency Analysis for Machine Type Communications**
Ming Fang, Xing Zhu, Huawei Technologies Co., Ltd., China, Miguel Torres, Huawei Technologies Co., Ltd., Spain, Luis Anaya, Vodafone Group, Spain, and Leo Patanapongpibul, Vodafone Group, United Kingdom

4 **Verification of Link Performance Prediction for CDMA**
Michal Panek, and Przemyslaw Czerepinski, Nokia Siemens Networks, Poland

5 **Difference-Based Joint Parameter Configuration for MRO and MLB**
Jie Chen, Hongcheng Zhuang, Huawei Technologies Co., Ltd, China, Beletskiy Andrian, Huawei Technologies Co., Ltd, Moldova, and You Li, Huawei Technologies Co., Ltd, China

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7C: Relays for LTE

Chair: Prof. Li Yong, Beijing University of Post and Telecommunications, China

1 **A Study of UE-to-UE Interference between TDD Systems**
Muhammad Imadur Rahman, Erik Dahlman, David Astély, Anders Wallén, and Leif R. Wilhelmsson, Ericsson Research, Sweden

2 **Protocol Impact of LTE Relays on User Performance**
Riikka Susitaival, Ericsson, Finland

3 **Evaluation of Potential Relay Locations in a Urban Macro-Cell Scenario with Applicability to LTE-A**
Ignacio Rodriguez, Claudio Coletti, and Troels B. Sørensen, Aalborg University, Denmark

4 **The Potential of Moving Relays--- A Performance Analysis**
Yutao Sui, Agisilaos Papadogiannis, and Tommy Svensson, Chalmers University of Technology, Sweden

5 **LTE In-Band Relay Prototype and Field Measurement**
Rui Fan, Jiansong Gan, Zhiheng Guo, Weihong Liu, Hai Wang, Ericsson China Communication Company, China, Kristofer Sandlund, Ericsson AB., Sweden, Jianjun Liu, Xiaodong Shen, and Guangyi Liu, China Mobile Research Institute, China

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7D: MIMO Detection Techniques

Chair: Prof. Camilla Hollanti, Aalto University, Finland

1 **Signal De-multiplexing in Branch Metric Calculation for Spatially Multiplexed MIMO System**
Yukitoshi Sanada, Keio University, Japan

2 **A Tree Pruning Algorithm For MIMO Sphere Decoding Based On Path Metric**
Shiliang Wang, Xiaolong Guo, Songlin Sun, Key Laboratory of Trustworthy Distributed Computing and Service (BUPT), Ministry of Education, Beijing University of Posts and Telecommunications, China, Tiehong Tian, Shizhen Sun, China Unicom System Integration Limited Corporation, China, and Xiaojun Jing, Key Laboratory of Trustworthy Distributed Computing and Service (BUPT), Ministry of Education, Beijing University of Posts and Telecommunications, China

3 **A Virtual Successive Detection for Cooperative MU-MIMO Systems with Reduced CSI**
Akihito Taya, Kyoto University, Japan, Satoshi Denno, Okayama University, Japan, Koji Yamamoto, Masahiro Morikura, Kyoto University, Japan, Daisuke Umehara, Kyoto Institute of Technology, Japan, Hidekazu Murata, and Susumu Yoshida, Kyoto University, Japan

4 **Kalman-based MIMO Receivers using Gaussian Sum Approximations**
Dawoon Lee, and Sooyong Choi, Yonsei University, South Korea

5 **Frequency Domain Turbo Equalization for MIMO-CPSC Systems with Large Delay Spreads**
Yogendra U. Itankar, and Ananthanarayanan Chockalingam, Indian Institute of Science, India

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7E: Wireless Sensor Networks 2

Chair: Dr. Yasunori Owada, NICT, Japan

1 **Synchronization of Wireless Sensor Networks using Natural Environmental Signals Based on Noise-Induced Phase Synchronization Phenomenon**
Makoto Harashima, Hiroyuki Yasuda, and Mikio Hasegawa, Tokyo University of Science, Japan

2 **Radio-disjoint Geographic Multipath Routing for Reliable Data Transfer in Lossy WSNs**
Jeongcheol Lee, Hosung Park, Seungmin Oh, and Sang-Ha Kim, Chungnam National University, Korea, Republic of

3 **A Novel Data Collection Scheme for WSNs**
Jie Li, Xiucai Ye, University of Tsukuba, Japan, and Li Xu, FuJian Normal University, China

4 **Sequential Compressive Sensing in Wireless Sensor Networks**
Jinping Hao, University of Bristol, United Kingdom, Filippo Tosato, Toshiba Telecommunications Research Lab, United Kingdom, and Robert Piechocki, University of Bristol, United Kingdom

5 **Utilization of Partial Common Information in Distributed Compressive Sensing**
JeongHun Park, SeungGye Hwang, DongKu Kim, Yonsei University, Korea, Republic of, and JangHoon Yang, Korean German Institute of Technology, Korea, Republic of

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7F: Transportation

Chair: Prof. Sumin Zhang, Jilin University, China

1 **Driver Modeling for Simulation of Transportation Systems**
Sumin Zhang, and Weiwen Deng, Jilin University, China

2 **A 3D Virtual Radar System for Prediction and Evaluation of Radar Sensor Performance in Traffic Monitoring**
Chengcheng Jiang, Hangzhou Dianzi University, China, Yan Wu, Jean-Paul Linnartz, Marco Haverlag, and Xin Wang, Eindhoven University of Technology, Netherlands

3 **Development and Evaluation of ITS Information Communication System for Electric Vehicle**
Yuriko Hattori, Tomokazu Shimoda, Mitsubishi Heavy Industries, Ltd., Japan, and Masayoshi Ito, Mitsubishi Motors Corporation, Japan

4 **Optimal Charging Control for Electric Vehicles in Smart Microgrids with Renewable Energy Sources**
Li Zhu, Beijing Jiaotong University, China, F. Richard Yu, Carleton University, Canada, Bin Ning, and Tao Tang, Beijing Jiaotong University, China

5 **Toward Real-time Vehicle Detection Using Stereo Vision and an Evolutionary Algorithm**
Vinh Dinh Nguyen, Thuy Tuong Nguyen, Dung Duc Nguyen, and Jae Wook Jeon, Sungkyunkwan University, South Korea

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7G: Interference Mitigation 2

Chair: Prof. Tomoaki Ohtsuki, Keio University, Japan

1 **Clustering for Interference Alignment in a Multiuser Interference Channel**
Sujie Chen, and Roger S. Cheng, Hong Kong University of Science and Technology, Hong Kong

2 **Distributed Interference Avoidance**
Woon Hau Chin, Toshiba Research Europe Limited, United Kingdom

3 **Interference Alignment: Improved design viaprecoding vectors**
Yasser Fadlallah, Abdeldjalil Aïssa-El-Bey, Karine Amis, and Ramesh Pyndiah, Institu Telecom, Telecom Bretagne, France

4 **Joint Channel Information Estimation and Data Detection for OFDM-Based Systems Under Unknown Interference**
The-Hanh Pham, and Ying-Chang Liang, Institute for Infocomm Research (I2R), Singapore

5 **Suppression of Constant Modulus Interference in Multimode Transceivers by Closed-Loop Tuning of a Nonlinear Circuit**
H. Habibi, Y. Wu, E. J. G. Janssen, P.G.M. Baltus, and J. W. M. Bergmans, Eindhoven University of Technology, Netherlands

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7P: Cooperative Communications, distributed MIMOs and Relaying Posters 2

1 **Cell Edge Throughput Improvement by Base Station Cooperative Transmission Control with Reference Signal Interference Canceller in LTE System**
Atsushi Nagate, Daigo Ogata, and Teruya Fujii, Softbank Mobile Corp., Japan

2 **Joint Preprocessing Techniques for Downlink CoMP Transmission in Multipath Fading Channels**
Jeng-Shin Sheu, and Chia-Hui Hsieh, National Yunlin University of Science & Technology, Taiwan

3 **Partial Joint Processing with Efficient Backhauling in Coordinated MultiPoint Networks**
Tilak Rajesh Lakshmana, Chalmers University of Technology, Sweden, Carmen Botella, Universitat de València, Spain, and Tommy Svensson, Chalmers University of Technology, Sweden

4 **Multiuser MIMO Transmission in Distributed Antenna Systems with Heterogeneous User Traffic**
Long Gao, Sudhanshu Gaur, and Joydeep Acharya, Hitachi America, Ltd, United States

5 **Inter-Cell Interference Coordination for a Downlink OFDMA Relay Network with Multicells**
Junho Eun, Hanmok Shin, and Jae Hong Lee, Seoul National University, South Korea

6 **Performance of Two-Hop Communication Links Employing Various Relay Processing Schemes**
Jia Shi, and Lie-Liang Yang, University of Southampton, United Kingdom

7 **A Low-Complexity Practical Quantize-and-Forward Scheme for Two-hop Relay Systems**
Duong T. Tran, Ecole Polytechnique Federale de Lausanne, Switzerland, Sumei Sun, Institute for Infocomm Research, Singapore, and Ernest Kurniawan, Institute for Infocomm Research, A*STAR, Singapore

8 **A Gain Matrix Design Method to Ensure Reciprocity in TDD MIMO Two-Hop Relay Systems**
Lei Song, Lihua Li, Key Laboratory of Universal Wireless Communications, Ministry of Education, Beijing University of Posts and Telecommunications, China, and Markku Juntti, Centre for Wireless Communications, University of Oulu, Finland

9 **Cluster-based Fair Allocation Algorithm for Multi-relay Single Carrier Distributed Networks**
Homa Eghbali, Simon Fraser University, Canada, Ibrahim Abualhaol, Sami Muhaidat, and Youssef Iraqi, Khalifa University of Science, Technology, and Research, United Arab Emirates

10 **Adaptive Modulation in Decode-and-Forward (DF) Cooperative Communications**
Chih-Yung Song, Min-Kuan Chang, and Guu-Chang Yang, National Chung Hsing University, Taiwan

11 **Dynamic Decode and Forward With Network Coding**
Wei-Cheng Liu, National Chung Cheng University, Taiwan, and Yu-Neng Chen, Wistron Corporation, Taiwan

12 **A Minimum Bit Error-Rate Detector for Amplify and Forward Relaying Systems**
Qasim Ahmed, Mohamed-Slim Alouini, and Sonia Aissa, KAUST, Saudi Arabia

13 **Bound Analysis of Physical Layer Network Coding in Interference-Limited Two-way Relaying System**
Fei Yang, Meiyu Huang, Sihai Zhang, and Wuyang Zhou, University of Science and Technology of China (USTC), China

14 **A Physical-Layer Network Coding Scheme Based on Linear MIMO Detection**
Hao-Hsiang Chung, Shiuan-Hao Kuo, Graduate Institute of Communication Engineering, National Taiwan University, Taiwan, and Mao-Chao Lin, Dept. of Electrical Engineering, National Taiwan University, Taiwan

15 **Location-aided Transmit Strategy in Bidirectional Relay over MISO Rician Channels**
Dong Xu, Zijian Bai, Guido Bruck, and Peter Jung, University of Duisburg-Essen, Germany

16 **Capacity of a Modulo-Sum Arbitrary SISO Relay Network**
Youvaraj Sagar, Jie Yang, and Hyuck Kwon, Wichita State University, United States

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8A: Spectrum Sensing 2

Chair: Prof. Takeo Fujii, The University of Electro-Communciations, Japan

1 **Spectrum Sensing for Cognitive Radio Based on Multiple Antenna**
Huan Cong Nguyen, Elisabeth de Carvalho, and Ramjee Prasad, Aalborg University, Denmark

2 **Efficient Cooperative Spectrum Sensing for Cognitive Wireless Relay Networks over Rayleigh Flat Fading Channels**
Quoc-Tuan Vien, Huaglory Tianfield, and Brian Stewart, Glasgow Caledonian University, United Kingdom

3 **Predicted Eigenvalue Threshold Based Spectrum Sensing With Correlated Multiple-Antennas**
Kais Hassan, Univ Lille Nord de France, France, Roland Gautier, Université Européenne de Bretagne, France, Université de Brest , CNRS, France, Iyad Dayoub, Univ Lille Nord de France, France, Emanuel Radoi, Université Européenne de Bretagne, France, Université de Brest, France, and Marion Berbineau, Univ Lille Nord de France

4 **Spectrum Sensing for Networked System Using 1-bit Compressed Sensing with Partial Random Circulant Measurement Matrices**
Doohwan Lee, NTT Network Innovation Laboratories, Japan, Tatsuya Sasaki, Graduate School of Information Science and Technology, The University of Tokyo, Japan, Takayuki Yamada, Kazunori Akabane, Yo

Yamaguchi, and Kazuhiro Uehara, NTT Network Innovation Laboratories, Japan

5 **A Reliable Collaborative Spectrum Sensing Scheme Based on the ROCQ Reputation Model for Cognitive Radio Networks**
Ming Zhou, Huifang Chen, Lei Xie, and Kuang Wang, Zhejiang University, China

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8B: Coordinated Transmission

Chair: Dr. Muhammad Imadur Rahman, Ericsson Research, Sweden

1 **Overview of Single Frequency Multipoint Transmission Concepts for HSDPA and Performance Evaluation of Intra-site Multiflow Aggregation Scheme**
Dmitry Petrov, Ilmari Repo, Magister Solutions Ltd., Finland, and Marko Lampinen, Renesas Mobile Europe, Finland

2 **Multi-BS Cooperative Interference Control for LTE Systems**
Daigo Ogata, Softbank Mobile Corp., Japan, Atsushi Nagate, Sotbank Mobile Corp., Japan, and Teruya Fujii, Softbank Mobile Corp., Japan

3 **Dual Decomposition Based Power Allocation for Downlink OFDM Non-Coherent Cooperative Transmission System**
Xin Chen, Xiaodong Xu, Xiaofeng Tao, and Hui Tian, Beijing University of Posts and Telecommunications, China

4 **Performance Analysis of Enhanced Inter-cell Interference Coordination in LTE-Advanced Heterogeneous Networks**
Yuanye Wang, Aalborg University, Denmark, and Klaus Pedersen, Nokia Siemens Networks, Denmark

5 **Joint Transmission for LTE-Advanced Systems with Non-Full Buffer Traffic**
Yong-Ping Zhang, Liang Xia, Philipp Zhang, Shulan Feng, Jingyuan Sun, and Xiaotao Ren, Huawei Technologies, China

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8C: Resource Allocation for Relaying 2

Chair: Prof. Koji Yamamoto, Kyoto University, Japan

1 **Performance Analysis of Two-way Relay Selection Scheme Based on ARDT Protocol**
Meiyu Huang, Fei Yang, Sihai Zhang, and Wuyang Zhou, University of Science and Technology of China (USTC), China

2 **Energy Efficient Relay Selection for Two-Way Relay System**
Qi Sun, Lihua Li, and Lei Song, Key Laboratory of Universal Wireless Communications, Ministry of Education, Wireless Technology Innovation (WTI) Institute, Beijing University of Posts and Telecommunications, China

3 **Outage Probability of Joint Relay Selection and Power Allocation for Two-Way Relay Networks over Rayleigh Fading Channels**
Zheng Ren, Yongyu Chang, Yongliang Zhang, and Dacheng Yang, Beijing University of Posts and Telecommunications, China

4 **Optimal Design of Probabilistic Slot Allocation for Multiple-Sensor Relaying Networks**
Insook Kim, and Dongwoo Kim, Hanyang University, South Korea

5 **Optimal Progressive Precoder Design for ARQ Packet Retransmissions in Nonregenerative MIMO Relay Systems**
Zhengyu Zhang, and Ling Qiu, University of Science and Technology of China, China

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8D: Predistortion and Equalization

Chair: Prof. Yasushi Yamao, The University of Electro-Communications, Japan

1 **A New Loop-delay Estimation Algorithm for Amplifier Predistortion System**
Zhengdai Li, Xiaonian He, and Nan Wu, Beijing Institute of Technology, China

2 **Time Domain Delay Items Design for Memory Orthogonal Polynomial Predistorter**
Zhan Shi, Hui Li, Jianmin Zhou, Fujitsu R&D Center CO., Ltd., China, and Jianming Wu, Fujitsu R&D Center CO., Ltd., Canada

3 **Compressed Sensing Techniques for Decision Feedback Equalization of Sparse Wireless Channels**
Evangelos Vlachos, Aris Lalos, Giannis Lionas, and Kostas Berberidis, University of Patras, Greece

4 **H-infinity Filter with Adaptive Robustness Level for Space-Time Equalization**
Fabiano de S. Chaves, INdT - Nokia Institute of Technology, Brazil, Joao M. T. Romano, University of Campinas - UNICAMP, Brazil, Mohamed Abbas-Turki, and Hisham Abou-Kandil, ENS-Cachan, France

5 **Reliability-based Precancellation of Inter-Carrier Interference for Highly Mobile OFDM Systems**
Rana Desouky Kazamel, University of Stuttgart, Germany, Nabil Sven Loghin, Sony Deutschland GmbH, Germany, and Joachim Speidel, University of Stuttgart, Germany

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8E: Wireless LAN

Chair: Dr. Noriyuki Fukui, Mitsubishi Electric Corporation, Japan

1 **An Orthogonal Polarization based MIMO Transmission for Advanced 60GHz WLAN**
Masahiro Umehira, Toshiaki Sasame, Ibaraki University, Japan, and Hirokazu Sawada, Tohoku University, Japan

2 **Novel Wi-Fi Throughput Estimation Method Considering CSMA/CA Behavior**
Yuichi Imagaki, Kanshiro Kashiki, Kosuke Yamazaki, and Akira Yamaguchi, KDDI R&D Laboratories Inc., Japan

3 **A Throughput Model for CSMA/CA with a Cross-Layer Payload-Dropping Optimization**
Raymond Jayabal, Institute for Infocomm Research, Singapore, and Chiew Tong Lau, Nanyang Technological University, Singapore

4 **Adaptive Pushout: A Buffer Management Scheme to Improve TCP Fairness in Wireless LANs**
Kazushige Hayashi, Shigeo Shioda, Nobuyoshi Komuro, Shiro Sakata, Chiba University, Japan, and Tutomu Murase, NEC, Japan

5 **How much can Wi-Fi offload? - A Large-scale Dense-urban Indoor Deployment Study**
Liang HU, Claudio Coletti, Aalborg University, Denmark, Jan Elling, Telenor, Denmark, Preben Mogensen, Nokia Siemens Networks, Denmark, and Huan Nguyen, Aalborg University, Denmark

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8F: MIMO Channels

Chair: Prof. Ke Guan, Beijing Jiaotong University, China

1 **A Study on Power Delay Profile Measurement using IEEE 802.11g based Long Preamble Signals for WLAN Systems at 2.4 GHz band**
Hironobu Hatamoto, Satoru Shimizu, Oki Electric Industry Co., Ltd., Japan, Yasuhiro Kanaoka, and Ikuo Yamashita, Kansai Electric Power Co., Inc., Japan

2 **Prediction and Measurement of Multiuser MIMO-OFDM Channel in Rural Australia**
Hajime Suzuki, David Robertson, CSIRO, Australia, Nisal Ratnayake, and Karla Ziri-Castro, Queensland University of Technology, Australia

3 **Carrier Frequency Characteristic of Time-Spatial Profile in Outdoor LOS Environments**
Hideki Omote, Yosuke Sugita, Yoshichika Ohta, and Teruya Fujii, Softbank Mobile, Japan

4 **MIMO Hardware Simulator: Digital Block Design for 802.11ac Applications with TGn Channel Model Test**
Bachir Habib, Gheorghe Zaharia, and Ghais El Zein, IETR/INSA de Rennes, France

5 **An Empirical Investigation of Multi-path Clusters in an Outdoor MIMO Propagation Environment**
Lian Chang, Jianhua Zhang, Fenghua Zhang, and Baoling Liu, Beijing University of Posts and Telecommunications, China

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8G: Transmission Techniques 2

Chair: Dr. Koichi Adachi, Institute for Infocomm Research, Singapore

1 **A Spectrally Efficient Transmission Scheme for Signals with Large Bandwidth**
Paulo Silva, IT/ISE, University of Algarve, Portugal, and Rui Dinis, IT/FCT, New University of Lisbon, Portugal

2 **An Optimal Multiuser Beamforming Scheme based on the Worst SNR in Cellular Systems**
Da Wang, Peking University, China, Lin Bai, Beihang University, China, Chen Chen, Peking University, China, Wenyang Guan, Swansea University, United Kingdom, Ye Jin, Peking University, China, and Jinho Choi, Swansea University, United Kingdom

3 **Channel selection HARQ feedback in LTE-Advanced**
Fredrik Berggren, Huawei Technologies Sweden AB, Sweden, and Jianghua Liu, Huawei Technologies Co., Ltd, China

4 **Impact of Nonlinear Devices in Software Radio Signals**
Slavisa Tomic, ISR and FCT-UNL, Portugal, Rui Dinis, Instituto de Telecomunicações, Portugal, and Marko Beko, UNINOVA and ULHT, Portugal

5 **In-Building DAS for High Data Rate Indoor Mobile Communication**
Temitope Alade, Hassan Osman, University of Kent, United Kingdom, and Miranda Ndula, Liverpool School of Tropical Medicine, United Kingdom

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8P: Wireless Networks Posters

1 **The Reliable Packet Transmission Based on PMIPv6 Route Optimization**
NamYeong Kwon, Sungkyunkwan University, Korea, Republic of, Moonseong Kim, Korean Intellectual Property Office, Korea, Republic of, Seung-Tak Oh, and Hyunseung Choo, Sungkyunkwan University, Korea, Republic of

2 **The Performance Study of Optimal Contention Window for IEEE 802.11 DCF Access Control**
Chien-Erh Weng, and Chun-Yin Chen, National Kaohsiung Marine University, Taiwan

3 **Online Detection of Fake Access Points using Received Signal Strengths**
Taebeom Kim, Haemin Park, Hyunchul Jung, and Heejo Lee, Korea University, South Korea

4 **Application of Tagged User Analysis to FU-FB Slotted ALOHA Performance over Frequency Selective Fading Channels**
Khurram Masood, Muhammad Saqib Sohail, Asrar U H Sheikh, and Mohamed A. Haleem, King Fahd University of Petroleum & Minerals, Saudi Arabia

5 **A Comparative Study of Mixed Traffic Scenarios for Different Scheduling Algorithms in WiMAX**
Milad Alizadeh, University of Bristol, United Kingdom, Rudzidatul Dziyauddin, University of Bristol, Universiti Teknologi Malaysia, United Kingdom, Dritan Kaleshi, and Angela Doufexi, University of Bristol, United Kingdom

6 **Simple Formulas for Area Coverage Probability of Cellular Wireless Networks**
Hong Yang, Bell Laboratories, United States

7 **Interference Analysis and Performance Evaluation on the Coexistence of Macro and Micro/Pico Cells in LTE Networks**
Yang LAN, and Atsushi Harada, DOCOMO Beijing Communications Laboratories Co., Ltd., China

8 **Optimal Resource Allocation for Multi-Access in Heterogeneous Wireless Networks**
Jie Miao, Zheng Hu, Canru Wang, Rongrong Lian, and Hui Tian, Beijing University of Posts and Telecommunications, China

9 **Self-Organized Resource allocation for LTE Pico Cells: A Reinforcement Learning Approach**
Afef Feki, Véronique Capdevielle, Alcatel-Lucent Bell Labs France, France, and Elom Sorsy, Telecom Bretagne, France

10 **Heterogeneous Wireless Network Traffic Load Estimation based on Chaos Theory**
Xue Han, Yucheng Zhang, Liang Huang, and Jinglin Shi, Institute of Computing Technology, CAS, China

11 **The Gain of a Targeted Introduction of OSG Femtocells into a LTE Macro Network**
Kimmo Hiltunen, NomadicLab, Ericsson Research, Oy L M Ericsson Ab, Finland

12 **A Dynamic MaxPRB-adjusting Scheduling Scheme based on SINR Dispersion Degree in LTE System**
Wenyu Li, Beijing University of PostsTelecommunications, China Academy of Telecom. Research, MIIT, China, Chao Zhang, Li JIN, Zhongfang Wang, Lin Zhang, and Yu Liu, Beijing University of Posts and Telecommunications, China

13 **QoS verification for Minimization of Drive Tests in LTE networks**
Fedor Chernogorov, and Timo Nihtilä, Magister Solutions Ltd., Finland

14 **QoS-Aware Load Balancing Algorithm for Joint Group Call Admission Control in Heterogeneous Networks**
Rongrong Lian, Hui Tian, Wenchao Fei, Jie Miao, and Canru Wang, Beijing University of Posts and Telecommunications, China

15 **Handover Methods Considering Channel Conditions of Multiple Aggregated Carriers**
Mingju Li, Liu Liu, Xiaoming She, and Lan Chen, DOCOMO Beijing Communications Laboratories Co., Ltd, China

16 **A Reliable Broadcast Transmission Approach Based on Random Linear Network Coding**
Hongkun Xi, Xiaoxiang Wang, and Yuan Zhao, Hongtao Zhang, Beijing University of Posts and Telecommunications, China

17 **Joint Source-Network Coding Optimization for Video Streaming over Wireless Multi-hop Networks**
Huali Cui, Xi'an Jiaotong University, China, Depei Qian, BeiHang University, China, Xingjun Zhang, Cuiping Jing, and Yifei Sun, Xi'an Jiaotong University, China

18 **Mobile Relay Amplifying Matrix Design of the Cooperative Distributed MMSE Relaying for AF Wireless Mobile Networks**
Kanghee Lee, Hyuck Kwon, Yazan Ibdah, Wenhao Xiong, and Edwin Sawan, Wichita State University, United States

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9A: Green Radio Links

Chair: Prof. Danyo Danev, Linköping University, Sweden

1 **Rate Control for Energy Minimization of DelayConstrained Cellular Transmissions**
Nof Abuzainab, Anthony Ephremides, University of Maryland, United States, and Andre Santos, Bell Labs/Alcatel-Lucent, Germany

2 **Evaluation of Control Channel Performance with Adaptive Radio Unit Activation in LTE**
Pål Frenger, Ericsson AB, Sweden, Havish Koorapaty, and Jiann-Ching Guey, Ericsson Research, United States

3 **Modulation optimization for achieving energy efficient communications over fading channels**
Fernando Rosas, and Christian Oberli, Pontificia Universidad Católica de Chile, Chile

4 **Simplified Sequential Linear Assignment Algorithm for Energy Efficient Resource Allocation**
Jingon Joung, Peng Hui Tan, Chin Keong Ho, and Sumei Sun, Institute for Infocomm Research, Singapore

5 **Energy-Efficient Subcarrier-and-Bit Allocation in Multi-User OFDMA Systems**
Fourat Haider, Cheng-Xiang Wang, Harald Haas, Heriot-Watt University, United Kingdom, Erol Hepsaydir, 3G UK, United Kingdom, and Xiaohu Ge, Huazhong University of Science and Technology, China

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9B: Resource Allocation

Chair: Prof. Jungang Liu, Univerisity of Ottawa, Canada

1 **Enhanced Multiuser Eigenmode Transmission for Joint Frequency-spatial Resource Allocation in OFDM-MIMO Downlink Systems**
Fanglei Sun, Huan Sun, Mingli You, Tao Yang, and Jinhui Chen, Alcatel-Lucent Shanghai Bell Co., China

2 **Admission and Allocation Policies in Heterogeneous Wireless Networks with Handover**
Pierre Coucheney, Inria, France, Emmanuel Hyon, Universite Paris Ouest Nanterre - LIP6, France, and Corinne Touati, Inria, France

3 **A Novel Rate Adaptation Scheme for Dynamic Bandwidth Management in Wireless Networks**
Peppino Fazio, Mauro Tropea, Fiore Veltri, and Salvatore Marano, University of Calabria, Italy

4 **Joint beam adaptation in 60GHz interference channel via sequential stochastic approximation**
Ke Dong, Xuewen Liao, and Shihua Zhu, Xi'an Jiaotong University, China

5 **A Dynamic Channel Assignment Scheme for Distributed Antenna Networks**
Ryusuke Matsukawa, Tatsunori Obara, and Fumiyuki Adachi, Tohoku University, Japan

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9C: Relaying 3

Chair: Dr. Tsuguhide Aoki, Toshiba Corporation, Japan

1 **Iterative Spatial Demapping for Two Correlated Sources with Power Control over Fading MAC**
Khoirul Anwar, Japan Advanced Institute of Science and Technology (JAIST), Japan, and Tad Matsumoto, Japan Advanced Institute of Science and Technology (JAIST) and Center for Wireless Communication, University of Oulu, Finland, Japan

2 **Iterative Frequency-Domain Channel Estimation and Equalization for Relay-Assisted SFBC Single-Carrier Systems**
Haitao Zhang, Xin Zhang, and Dacheng Yang, Beijing University of Posts and Telecommunications, China

3 **Inter-cell Interference Cancelation Schemes Using Alternate Relay Transmission**
Jae-Woo Kwon, Seong-Ho Park, and Young-Chai Ko, Korea University, South Korea

4 **Cooperative Communications with Opportunistic Nonorthogonal Amplify-and-Forward Relaying**
Li Chen, Sun Yat-sen University, China, Rolando Carrasco, Newcastle University, United Kingdom, and Ian Wassell, University of Cambridge, United Kingdom

5 **A New Cooperative Transmission Strategy for Physical-Layer Security with Multiple Eavesdroppers**
Chin-Liang Wang, Ting-Nan Cho, and Kai-Jie Yang, National Tsing Hua University, Taiwan

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9D: Performance Evaluation for Wireless Access

Chair: Dr. Lan Yang, DOCOMO Beijing Labs, China

1 **Incremental Redundancy for LDPC Codes of 2nd Generation DVB Systems**
Nabil Sven Loghin, Sony Deutschland GmbH, Germany, Makiko Kan, Sony Corporation, Japan, and Jan Zoellner, Technische Universitaet Braunschweig, Germany

2 **A New Switching Scheme for DVB-RCS+M Return Link in a Land based Scenario**
Mauro Tropea, Peppino Fazio, and Salvatore Marano, University of Calabria, Italy

3 **Characterisation of Other-cell Interference in Co-channel WCDMA Small Cell Networks**
Rouzbeh Razavi, Stepan Kucera, Cristian Androne, and Holger Claussen, Bell Labs, Alcatel-Lucent, Ireland

4 **Investigation of Network Virtualization and Load Balancing Techniques in LTE Networks**
Ming Li, Hamburg University of Technology, Germany, Liang Zhao, Xi Li, University of Bremen, Germany, Xiaona Li, Hamburg University of Technology, Germany, Yasir Zaki, University of Bremen, Germany, Andreas Timm-Giel, Hamburg University of Technology, Germany, and Carmelita Görg, University of Bremen, Germany

5 **Distance dependent Call Blocking Probability, and Area Erlang Efficiency of Cellular Networks**
Subhendu Batabyal, and Suvra Das, Indian Institute of Technology Kharagpur, India

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9E: Beam/Null-Forming

Chair: Prof. Kentaro Nishimori, Niigata University, Japan

1 **Resource Block Basis MMSE Beamforming for Interference Suppression in LTE Uplink**
Eiji Mochida, Sumitomo Electric Industries, Ltd., Japan, Mitsuru Hirakawa, Innovation Core SEI, Inc., United States, Takashi Yamamoto, Yoshizo Tanaka, Yoshihiro Hamada, Yoji Okada, and Mitsuo Sugimoto, Sumitomo Electric Industries, Ltd., Japan

2 **System-level performance of interference suppression receivers in LTE system**
Kari Pietikäinen, Renesas Mobile Europe Ltd., Finland, Felipe Del Carpio, Aalto University, Finland, Helka-Liina Määttänen, Marko Lampinen, Tommi Koivisto, and Mihai Enescu, Renesas Mobile Europe Ltd., Finland

3 **Investigation on Advanced Receiver Employing Interference Rejection Combining in Asynchronous Network for LTE-Advanced Downlink**
Yusuke Ohwatari, Nobuhiko Miki, Tetsushi Abe, NTT DOCOMO, INC., Japan, and Hidekazu Taoka, DOCOMO Communications Laboratories Europe GmbH, Germany

4 **Novel Robust Adaptive Beamforming**
Chia-Cheng Huang, and Ju-Hong Lee, National Taiwan University, Taiwan

5 **A Study on Transmit Beamforming at Source Node in MISO-SISO/MIMO-MIMO AF Relays**
Naohito Kiyomi, Julian Webber, Toshihiko Nishimura, Takeo Ohgane, and Yasutaka Ogawa, Hokkaido University, Japan

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9F: Resource Allocation for Wireless Ad Hoc Networks

Chair: Prof. Katsuhiro Naito, Mie University, Japan

1 **Efficient Continuous Object Tracking with Virtual Grid in Wireless Sensor Networks**
WoonSik Kim, Agency for Defense Development, Korea, Republic of, Hosung Park, Jeongcheol Lee, and Sang-Ha Kim, Chungnam National University, Korea, Republic of

2 **Topology-Transparent Distributed Multicast and Broadcast Scheduling in Mobile Ad Hoc Networks**
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