5 Outage Capacity of Two-way Relay Systems by Network Coding under Rayleigh Fading Channels
Wanhua Lin, Xiangyang Wang, Qian Li, Lei Pan, Southeast University

Tuesday 3 September 16:20-15:50
3E: MIMO 1
1 A Lattice-Reduction Aided List Demapper for Coded MIMO Receiver
Tung-Jung Hsieh, National Chiao Tung University; Wern-Ho Sheen, Chao Yang University of Technology; Sin-Horng Chen, National Chiao Tung University; Jen-Yuan Hsu, Industrial Technology Research Institute

2 Channel Capacity of Distributed MIMO Antenna Systems under the Effect of Spatially Correlated Shadowing
Ou Zhao, Hidekazu Murata, Suzumu Yoshida, Kyoto University

3 Energy Efficient Power Allocation Algorithm for Downlink Massive MIMO with MRT Preceding
Zhao Long, Hui Zhao, Beijing University of Posts and Telecommunications

4 Enhancing Connectivity of Unmanned Vehicles Through MIMO Communications
Michael J. Gans, Air Force Research Laboratory; Kapil M. Borle, Biao Chen, Syracuse University; Thomas Freeeland, Daniel McCarthy, Roger Nelson, David Overrocker, Paul Olesi, Air Force Research Laboratory, Rome, NY

5 Enhancing In-Home 802.11 Performance: Mesh or MIMO?
Di Kong, Evangelos Mellios, Geoffrey Hilton, Angela Doufexi, Andrew Nix, University of Bristol

Tuesday 3 September 16:20-15:50
3F: Synchronization
1 A Synchronization Scheme Based on Interleaved Partial Zadoff-Chu Sequences for Cooperative MIMO Systems
Chin-Liang Wang, Hung-Chin Wang, Yi-Hsia Chen, National Tsing Hua University

2 Blind Symbol Rate Estimation and Testbed Implementation for Linearly Modulated Signals
Sudhan Majhi, Nanyang Technological University

3 Gabor Division/Spread Spectrum System is Separable in Time and Frequency Synchronization
Tohru Kohda, Yuutaka Jitsumatsu, Kyushu University; Kazuyuki Aihara, The University of Tokyo

4 Timing and Frequency Synchronization for Cooperative Relay Networks
Zhang Jianhua, Chao Shen, Beijing University of Posts and Telecommunications; Gang Deng, Beijing Univ. of Posts and Telecom.; Wang Yuning, BUPT

5 Phase coded Costas signals for ambiguity function improvement and grating lobes suppression
Nadja Touati, Charles Tatkeu, IFSTTAR; Atika RIVENQ, University of valenciennes; Thierry Chonavel, telecom Bretagne

Tuesday 3 September 16:20-15:50
3G: LTE Co-Existence and Interference Mitigation
1 Adaptive Cell Association and Interference Management in LTE-A Small-Cell Networks
Yong-Ping Zhang, Research Department of Hisilicon, Huawei Technologies; Shulan Feng, Philipp Zhang, Hisilicon Technologies, Huawei

2 Analytical Model of Proportional Fair Scheduling in Interference-limited OFDMA/LTE Networks
Donald Parrucca, RWTH-Aachen University; Marius Grysla, UMIC Research Centre, RWTH-Aachen; Simon Goertzen, RWTH Aachen; James Gross, Royal Institute of Technology (KTH), Sweden

3 Dynamic Cell Size Adaptation and Intercell Interference Coordination in LTE HetNets
Katrín Erlinghagen, Björn Dusza, Christian Wietfeld, TU Dortmund University; Jörg Huschke, Ericsson

4 LTE UL Power Control for the Improvement of LTE/Wi-Fi Coexistence
Fabiano Chaves, Instituto Nokia de Tecnologia; Érika Almeida, Nokia Technology Institute; Robson. D. Vieira, André Mendes Cavalcante, Fuad M. Ahmader Jr., Nokia Institute of Technology (INiT); Sayantan Choudhury, Klaus Doppler, Nokia Research Center

5 Performance Gains of Spectrum Sharing in Multi-Operator LTE Advanced Systems
Ahmed Alshohairy, Elvin S. Sousa, University of Toronto

Tuesday 3 September 16:20-15:50
3H: Security and Trust
1 A Trust Based Threshold Revocation Scheme for MANETs
Hisham Dahshan, University of Strathclyde; Fatma Elsayed, Alaa Rohnem, Ali Elmoghazy, Military Technical College; James Irvine, University of Strathclyde

2 Cooperative Jamming and Power Allocation in Two-Way Relaying System with Eavesdropper
Hang Long, Beijing University of Posts and Telecommunications; Wei Xiang, University of Southern Queensland; Jing Wang, Yueying Zhang, Wenbo Wang, Beijing University of Posts & Telecommunications

3 Digital Modulation for Intrinsic Secure Pairing of Wireless Nodes
Lorenzo Mucchi, University of Florence; Luca Simone Ronga, Enrico Del Re, CNIT - University of Florence; Patrizio Marconi, CNIT

4 GMM based Semi-Supervised Learning for Channel-based Authentication Scheme
Nikhil Gulati, Rachel Greenstadt, Kapil Dandekar, John Walsh, Drexel University

5 MMSE Relaying Strategies under Jamming, Channel Uncertainty, Node Geometry, and Power Constraint
Kanghee Lee, Hyuck M. Kwon, Jie Yang, Edwin Sawan, Wichita State University; Hyunchol Park, Yong H. Lee, Korea Advanced Institute of Science and Technology

Wednesday 4 September 2013
4A: Performance, Optimization and Control
1 A QoS Control Scheme using Dynamic Window Size Control for Wide Area Ubiquitous Wireless Networks
Fusao NUNO, Takatoshi Sugiyama, NTT Access Network Service Systems Laboratories; Masahiro Morikura, Graduate School of Informatics, Kyoto-University

2 Joint Optimization of Role and Channel Assignments for Wireless Mesh Networks
Andy An-Kai Jeng, Industrial Technology Research Institute; Rong-Hong Jan, National Chiao Tung University

3 Lifetime Properties in Cluster-Based IEEE 802.15.4 WSNs
Hamidreza Tavakoli, Jelena Misic, Ryerson University; Majid Naderi, Iran University of Science & Technical; Vojislav Misic, Ryerson University
Wednesday 4 September 13:40-15:10
5E: MIMO 3
1 Pilot Power Ratio for Uplink Sum-Rate Maximization in Zero-Forcing Based MU-MIMO Systems with Large Number of Antennas
Kyoungsik Min, Minchae Jung, Taehyung Kim, Sooyoung Choi, Yonsei University

2 Practical Implementation of Integer Forcing Linear Receivers in MIMO Channels
Asma Mejeri, Telecom-ParisTech; Ghaya Rekaya Ben-Othman, Telecom ParisTech

3 Robust Detection with Stable Throughput Over Ill-Conditioned Channels for High-Order MIMO Systems
Weiwei Wang, Pinyi Ren, Qinghe Du, Li Sun, Xian Jiaotong University

4 Separate Horizontal & Vertical Codebook Based 3D MIMO Beamforming Scheme in LTE-A Networks
Yuan Yuan, Ying Wang, Weidong Zhang, Fei Peng, Beijing University of Posts and Telecommunications

5 SINR-based Transceiver Design in the K-user MIMO Interference Channel using Multi-Objective Optimization
Milad Amir Toutouchnian, Rodney G. Vaughan, Simon Fraser University

Wednesday 4 September 13:40-15:10
5F: Performance Analysis
1 Analysis of Spreading Codes in Conjunction with Ambiguity Function for Inter Vehicular Communication
Susanna Spina/Genti, Università Politecnica delle Marche; Chirag Warty, Aihilya Technologies; Sandeep Mattigiri, California State University; Richard Wai Yu, NAVSEA

2 Error Probability Bounds for Multiuser Detection in Cooperative Cellular Networks
Rajitha Senanayake, Phee Lep Yeoh, University of Melbourne; Jamie S. Evans, Monash University

3 Performance Analysis for Heterogeneous Cellular Systems with Range Expansion
Haichuan Ding, Beijing Institute of Technology; Guanghua Yang, The University of Hong Kong; Shaodan Ma, University of Macau; Chengwen Xing, Zesong Fei, Beijing Institute of Technology

4 Performance Analysis of Multi-Hop AF Relaying Systems with a Poisson Field of Interferers in Nakagami-m Fading Channels
Valentine Aalo, Florida Atlantic University; Kostas Kostakis, National Center for scientific research "Demokritos"; George Ethymoglou, University of Piraeus; Mohammed Alwakeel, University of Tabuk; Sami Alwakeel, King Saud University, College of Computer & Information Sciences

5 Performance of a multiuser downlink system applying thresholding feedback with imperfect channel information
Anh Nguyen, Yichao Huang, Prof. Bhaskar D. Rao, University of California, San Diego, USA

Wednesday 4 September 13:40-15:10
5G: LTE Networks
1 Channel Orthogonality and Utility-Based UE Pairing Schemes for LTE Uplink MU-MIMO
Balamurali Natarajan, Naveen Anirudhvan, Suresh Kalyanasundaram, Hans Kroener, Rajeev Agarwal, Nokia Siemens Networks

2 Modeling of Wi-Fi IEEE 802.11ac Offloading Performance For 1000x Capacity Expansion of LTE-Advanced
Liang Hu, Laura Luque Sanchez, Aalborg University & NTT DOCOMO; Michal Maternia, Istvan Z. Kovacs, Benny Vejlgaard, Nokia Siemens Networks - Wroclaw, Poland; P. E. Mogensen, Nokia Siemens Networks, Aalborg; Hidekazu Taoka, NTT DOCOMO

3 Network-assisted widely linear receivers for LTE
Luis Felipe Del Carpio, Aalto University, Finland; Marko Lampinen, Mihai Eneescu, Tommi Koivisto, Renesas Mobile Europe Ltd; Olav Tirkkonen, Aalto University

4 Reference Signals for Improved Energy Efficiency in LTE
Havish Koorapaty, Jung-Fu (Thomas) Cheng, Ericsson Research Silicon Valley; Jian-Ching Guey, ITRI

5 Study of Signaling Overhead Caused by Keep-Alive Messages in LTE Network
Ziqi Zhang, Beijing Jiaotong University; Zhuyan Zhao, Guan Hao, Deshan Miao, Nokia Siemens Networks; Zhen-Hui Tan, Beijing Jiaotong University

Wednesday 4 September 13:40-15:10
5H: Network Resource Allocation and Optimization
1 An Enhanced Spectrum Resource Allocation Algorithm for Femtocells
Linjing Zhao, Xidian University; Guangnui Huo, Xidian university; Kang G. Shin, University of Michigan

2 Genetic Algorithm-based Power Allocation for Multiuser MIMO-OFDM Femtocell Networks with ZF Beamforming
Wei-Chen Pao, Industrial Technology Research Institute; Yung-Feng Lu, National Taichung University of Science and Technology; Chen-Yu Shih, Yung-Fang Chen, National Central University

3 Joint Bandwidth Allocation and Small Cell Switching in Heterogeneous Networks
Jens Bartelt, Technische Universität Dresden; Albrecht Fehske, TU Dresden; Henrik Klessig, Technische Universität Dresden; Jens Voigt, Actix GmbH; Gerhard Fettweis, TU Dresden

4 Optimal Multi-Hop Compute-and-Forward for Generalized Two-Way Relay Channels
Gongkun Wang, Wei Xiang, University of Southern Queensland; Yafeng Wang, Beijing University of Posts and Telecommunications

5 Power Allocation for AF Relaying Network under Channel Phase Misalignment
Kanghee Lee, Hyuck M. Kwon, Jie Yang, Edwin Sawan, Wichita State University; Hyuncheol Park, Yong H. Lee, Korea Advanced Institute of Science and Technology

Wednesday 4 September 13:40-15:10
5P: Network and Applications Posters
1 Energy Efficient Power Allocation Schemes for Device-to-Device(D2D) Communication
Si Wen, Xiaoayue Zhu, Zhesheng Lin, Xin Zhang, Dacheng Yang, Beijing University of Posts and Telecommunications

2 Optimal Beamforming Design for Minimal Energy Optimization in Cognitive MIMO System with Perfect/Imperfect Knowledge of PU’s Precoder
Yinglei Wang, Shih-Tsaok Chiang, Yung-Fang Chen, National Central University; Chi-Wei Wang, National Taichung University; Suresh Kalyanasundaram, Hanyang University; Yung-Feng Lu, National Taichung University of Science and Technology

3 A Genetic Algorithm for Multiple Relay Selection in Two-Way Relaying Cognitive Radio Networks
Ahmad Alsharari, Hakim Ghazzai, Mohamed-Slim Alouini, King Abdullah University of Science and Technology (KAUST)

4 Opportunistic Relay Selection Protocol under Multi-user Environment
Incheol Yoo, LG Uplus; Jinyoung Oh, KAIST; Youngnam Han, Korea Advanced Institute of Science and Technology

5 A General Framework for Distributed Coordination of Parameters in Communication Networks
Jian-Ching Guey, ITRI; Dennis Hui, Ericsson Research
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5. Mobile Networks, Applications and Services
6. Multiple Antenna Systems and Services
7. Satellite Networks, Positioning Technologies, Localization and Navigation
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