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Yan Liu (The Chinese University of Hong Kong, Hong Kong), Jack Y. B. Lee (The Chinese University of Hong Kong, Hong Kong)	116(
<i>Lower Bound of Mean User Waiting/Watching Time Ratio in Wireless Video Streaming Networks</i>	
Evgeny Bakin (State University of Aerospace Instrumentation, Russia), Grigory Evseev (St.Petersburg State University of Aerospace Instrumentation, Russia), Andrey Turlikov (Saint-Petersburg State University of Aerospace Instrumentation, Russia)	117\$

Traffic Control and Network Virtualization

<i>Fast then Inefficient? Engineering the Traffic in Edge-server Relay Network</i>	
Yuanjian Xing (Peking University, P.R. China), Yafei Dai (Peking University, P.R. China)	11+*
<i>Admission Control with Flow Aggregation for QoS Provisioning in Software-Defined Network</i>	
Jun Huang (Chongqing University of Posts and Telecomm, P.R. China), Yunlong He (Chongqing University of Posts and Telecom, P.R. China), Qiang Duan (The Pennsylvania State University, USA), Qing Yang (Montana State University, USA), Wei Wang (San Diego State University, USA)	118&
<i>A distributed rate allocation scheme in the two-sided network</i>	
Jonghoon Yun (Korea Telecom, Korea), Hyang-Won Lee (Konkuk University, Korea), Young-Myoung Kim (Korea Telecom, Korea)	11, +
<i>An extended Hop-by-hop Interest shaping mechanism for Content-Centric Networking</i>	
Natalya Rozhnova (UPMC Sorbonne Universités, France), Serge Fdida (UPMC Sorbonne Universités, France)	B#5
<i>Resource Pooling in Network Virtualization and Heterogeneous Scenarios using Stochastic Petri Nets</i>	
Rainer Schoenen (RWTH Aachen University, Faculty 6, Germany), Halim Yanikomeroglu (Carleton University, Canada)	1%- '
<i>Traffic Modeling for Machine-to-Machine (M2M) Last Mile Wireless Access Networks</i>	
Obada Al Khatib (The University of Sydney, Australia), Wibowo Hardjawana (The University of Sydney, Australia), Branka Vucetic (The University of Sydney, Australia)	11- -

Network Coding

<i>NC-CELL: Network Coding-based Content Distribution in Cellular Networks for Cloud Applications</i>	
Claudio Fiandrino (University of Luxembourg, Luxembourg), Dzmitry Kliazovich (University of Luxembourg, Luxembourg), Pascal Bouvry (University of Luxembourg, Luxembourg), Albert Zomaya (The University of Sydney, Australia)	12\$)
<i>Structured Random Linear Codes (SRLC): Bridging the Gap between Block and Convolutional Codes</i>	
Kazuhisa Matsuzono (National Institute of Information and Communication Technology (NICT), Japan), Vincent Roca (INRIA Rhône-Alpes, France), Hitoshi Asaeda (National Institute of Information and Communications Technology (NICT), Japan)	12%%
<i>Analysis of a Network Coding-Aware MAC Protocol for IEEE 802.11 Wireless Networks with Reverse Direction Transmissions</i>	
Raul Palacios (University of Trento, Italy), Habtegebrel Haile (University of Trento, Italy), Jesus Alonso-Zarate (Centre Tecnologic de Telecomunicacions de Catalunya - CTTC, Spain), Fabrizio Granelli (University of Trento, Italy)	12%
<i>Random Linear Network Coding for Reliable Broadcasting</i>	
Mohammad Hamed Firooz (University of Washington, USA), Zixia Hu (Qualcomm, USA)	B#5

<i>Toward Secure User-Habit-Oriented Authentication for Mobile Devices</i> Jamie Seto (University of Ontario Institute of Technology, Canada), Ye Wang (University of Ontario Institute of Technology, Canada), Xiaodong Lin (University of Ontario Institute of Technology, Canada)	122)
<i>Multicast Delivery Scheme for Threshold Secret Shared Content</i> Nagao Ogino (KDDI R&D Laboratories Inc., Japan), Hidetoshi Yokota (KDDI Labs, Japan)	12' &

Resource Allocation in Wireless Networks

<i>Power Efficient Uplink Resource Allocation in LTE Networks under Delay QoS Constraints</i> Adnan Aijaz (King's College London, United Kingdom), Mohammad Reza Nakhai (King's College London, United Kingdom), Hamid Aghvami (King's College London, United Kingdom)	12' -
<i>On-line Learning and Prediction of Link Quality in Wireless Sensor Networks</i> Dana Marinca (PRISM Laboratory & University of Versailles St. Quentin, France), Pascale Minet (INRIA, France)	12()
<i>Performance Analysis of Energy-Efficient MAC Protocols using Bidirectional Transmissions and Sleep Periods in IEEE 802.11 WLANs</i> Raul Palacios (University of Trento, Italy), El Moatez Billah Larbaa (University of Constantine1, Algeria), Jesus Alonso-Zarate (Centre Tecnologic de Telecomunicacions de Catalunya - CTTC, Spain), Fabrizio Granelli (University of Trento, Italy)	12) &
<i>Resource Allocation for D2D Communications Under Proportional Fairness</i> Tuong Hoang (University of Quebec, Canada), Long Bao Le (INRS, University of Quebec, Canada), Tho Le-Ngoc (McGill University, Canada)	12) -
<i>Spectrum Sharing For Delay-Sensitive Applications With Continuing QoS Guarantees</i> Yuanzhang Xiao (University of California, Los Angeles, USA), Kartik Ahuja (University of California Los Angeles, USA), Mihaela van der Schaar (University of California, Los Angeles (UCLA), USA)	12*)
<i>Ant Colony Optimization for Joint Resource Allocation and Relay Selection in LTE-Advanced Networks</i> Ahmed H Zainaldin (Ericsson Canada, Canada), Hassan Halabian (Ericsson Canada, Canada), Ioannis Lambadaris (Carleton University, Canada)	12+%

Routing and Reliability

<i>Algorithm for FIPP p-cycle Path Protection in Flexgrid Networks</i> Helder Oliveira (University of Campinas, Brazil), Nelson L. S. da Fonseca (State University of Campinas, Brazil)	12+,
<i>Traffic Grooming of Batches of Deadline-Driven Requests in Elastic Optical Networks</i> Pedro Moura (State University of Campinas, Brazil), Nelson L. S. da Fonseca (State University of Campinas, Brazil), Rafael Scaraficci (University of Campinas, Brazil)	1&, (
<i>Reliability Prediction of Diffused Pathset Routing in Wireless Multihop Networks</i> Trisha Biswas (North Carolina State University, USA), Rudra Dutta (North Carolina State University, USA)	1&- 0
<i>A Hierarchical Hashing Scheme to Accelerate Longest Prefix Matching</i> Hai Sun (Washington State University, USA), Yan Sun (Huawei, USA), Victor C. Valgenti (Petabi, Inc, USA), Min S Kim (Petabi, USA)	1&- *
<i>Methods for time-dependent combined network design and routing optimization</i> Dimitri Papadimitriou (Alcatel-Lucent & UGent, Belgium), Bernard Fortz (Université Libre de Bruxelles, Belgium)	130'
<i>Using Linear System Reliability to Obtain Theoretical Understanding of Wireless Routing</i> Trisha Biswas (North Carolina State University, USA), Kendra Lesser (University of New Mexico, USA), Rudra Dutta (North Carolina State University, USA), Meeko Oishi (University of New Mexico, USA)	13%\$

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Video Coding and Communications

<i>Towards QoE-aware Video Streaming using SDN</i>	
Hyunwoo Nam (Columbia University, USA), Kyung Hwa Kim (Columbia University, USA), Jong Yul Kim (Columbia University, USA), Henning Schulzrinne (Columbia University, USA)	13%+
<i>A Multicast Architecture of SVC Streaming Over OpenFlow Networks</i>	
Enzhong Yang (University of Science and Technology of China, P.R. China), Yongyi Ran (University of Science and Technology of China, P.R. China), Shuangwu Chen (University of Science and Technology of China, P.R. China), Jian Yang (University of Science and Technology of China, P.R. China)	13&'
<i>Scheduling Policy Analysis of Cloud Video Service</i>	
Zhen Zhao (Comcast, USA)	13&-
<i>Content-Aware Adaptation Scheme For QOE Optimized DASH Applications</i>	
Shenghong Hu (Hubei University of Economics, P.R. China), Lingfen Sun (University of Plymouth, United Kingdom), Chao Gui (Hubei University of Economics, P.R. China), Emmanuel A. Jammeh (University of Plymouth, United Kingdom), Is-Haka Mkwawa (University of Plymouth, United Kingdom)	133*
<i>Non-Buffered Rate Control for Real Time Video Compression</i>	
Yu Sun (University of Central Arkansas, USA), Zhidan Feng (UAMS, USA), Reshma Ginnavaram (University of Central Arkansas, USA)	13(&
<i>Choosing the Best Video Compression Codec Depending on the Recorded Environment</i>	
Jose Miguel Jimenez Herranz (Polytechnic University of Valencia, Spain), Juan Ramon Diaz Santos (Polytechnic University of Valencia, Spain), Sandra Sendra (Universidad Polit�cnica de Valencia, Spain), Jaime Lloret (Universidad Polit�cnica de Valencia, Spain)	134+

Communication Services

<i>Energy-Efficient Communication-Based Train Control (CBTC) systems with Random Delay and Packet Drop</i>	
Wenzhe Sun (Carleton University & Beijing Jiaotong University, Canada), F. Richard Yu (Carleton University, Canada), Tao Tang (Beijing Jiaotong University, P.R. China), Bing Bu (State Key Lab of Rail Control and Safety, Beijing Jiaotong University, P.R. China)	13) '
<i>Extending the Detection Range of Vision-based Driver Assistance Systems Application to Pedestrian Protection System</i>	
Abdelhamid Mammeri (University of Ottawa, Canada), Tianyu Zuo (University of Ottawa, Canada), Azzedine Boukerche (University of Ottawa, Canada)	13) ,
<i>A Novel Frequency Selective Sounding Scheme for TDD LTE-Advanced Systems</i>	
Shengjie Zhao (Tongji University, P.R. China), Baolong Zhou (Shanghai Jiaotong University, Alcatel-Lucent Shanghai Bell & Alcatel-Lucent Shanghai Bell Company Ltd, P.R. China), Daqiang Zhang (Tongji University, P.R. China)	13* (
<i>Service Provision for Incompatible Polarization Satellite Assets via Wavefront Multiplexing Techniques</i>	
Donald Chang (Spatial Digital Systems, USA), Joe Lee (SDS, Inc., USA), Tzer-Hso Lin (SDS, USA)	137\$
<i>Predictive Delay-Aware Network Selection in Data Offloading</i>	
Haoran Yu (The Chinese University of Hong Kong, Hong Kong), Man Hon Cheung (The Chinese University of Hong Kong, Hong Kong), Longbo Huang (Tsinghua University, P.R. China), Jianwei Huang (The Chinese University of Hong Kong, Hong Kong)	13+*

Proactive Content Caching utilizing Transportation Systems and its Evaluation by Field Experiment

Kenji Kanai (Waseda University, Japan), Takeshi Muto (Waseda University, Japan), Hiroto Kisara (Waseda University, Japan), Jiro Katto (Waseda University, Japan), Toshitaka Tsuda (Waseda University & Formerly Fujitsu, Japan), Kameyama Wataru (Waseda University, Japan), Yong Jin Park (Waseda University, Japan), Takuro Sato (Waseda University, Japan) 13, &

Wireless Video

QoE Driven Video Streaming in Cognitive Radio Networks: The Case of Single Channel Access

Zhifeng He (Auburn University, USA), Shiwen Mao (Auburn University, USA), Sastry Kompella (Naval Research Laboratory, USA) 1' , ,

SSIM-Based Cross-Layer Optimized Video Streaming over LTE Downlink

Pinghua Zhao (Institute of Acoustics, Chinese Academy of Sciences, P.R. China), Yanwei Liu (Institute of Acoustics, Chinese Academy of Sciences, P.R. China), Jinxia Liu (Zhejiang Wanli University, P.R. China), Ruixiao Yao (Institute of Acoustics, Chinese Academy of Sciences, P.R. China), Song Ci (University of Nebraska-Lincoln, USA) 1' - 4

Hierarchical-Matching based Scalable Video Streaming over Multi-channel Cognitive Radio Networks

Ruixiao Yao (Institute of Acoustics, Chinese Academy of Sciences, P.R. China), Yanwei Liu (Institute of Acoustics, Chinese Academy of Sciences, P.R. China), Jinxia Liu (Zhejiang Wanli University, P.R. China), Pinghua Zhao (Institute of Acoustics, Chinese Academy of Sciences, P.R. China), Song Ci (University of Nebraska-Lincoln, USA) 14\$\$

An Optimal Code Rate Design of Multilevel Coded Modulation for Multimedia Data Transmission Employing Unequal Error Protection

Yoshito Watanabe (Yokohama National University, Japan), Hideki Ochiai (Yokohama National University, Japan) 14\$*

Multi-view Video Streaming with Mobile Cameras

Kodera Shiho (Shizuoka University, Japan), Takuya Fujihashi (Osaka University, Japan), Shunsuke Saruwatari (Shizuoka University, Japan), Takashi Watanabe (Osaka University, Japan) 14%2

Video-QoE Aware Resource Management at Network Core

Vishwanath Ramamurthi (Intel Corporation, USA), Ozgur Oyman (Intel Corporation, USA), Jeffrey Foerster (Intel Corporation, USA) 14%

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Communications with Energy Harvesting

The Energy Harvesting and Energy Cooperating Two-way Channel with Finite-Sized Batteries

Kaya Tutuncuoglu (Pennsylvania State University, USA), Aylin Yener (Pennsylvania State University, USA) 14&4

User Cooperation in Wireless Powered Communication Networks

Hyungsik Ju (National University of Singapore, Singapore), Rui Zhang (National University of Singapore, Singapore) 14' \$

Charging and Transmission Time Minimization for Wireless Powered Communication Networks

Xin Kang (Institute for Infocomm Research, Singapore), Chin Keong Ho (Institute for Infocomm Research, A*STAR, Singapore), Sumei Sun (Institute for Infocomm Research, Singapore) 143*

<i>A Harvest-Then-Cooperate Protocol for Wireless Powered Cooperative Communications</i> He Chen (The University of Sydney, Australia), Yonghui Li (University of Sydney, Australia), Jun Li (University of Sydney, Australia), João Luiz Rebelatto (Federal University of Technology - Parana, Brazil), Bartolomeu F. Uchôa-Filho (Federal University of Santa Catarina & Communications Research Group, Brazil), Branka Vucetic (The University of Sydney, Australia)	B #5
<i>Energy Harvesting Communications with Energy and Data Storage Limitations</i> Burak Varan (The Pennsylvania State University, USA), Aylin Yener (Pennsylvania State University, USA)	14(&
<i>Performance Analysis of Ambient RF Energy Harvesting: A Stochastic Geometry Approach</i> Ian Flint (Nanyang Technological University, Singapore), Xiao Lu (Nanyang Technological University, Singapore), Nicolas Privault (Nanyang Technological University, Singapore), Dusit Niyato (Nanyang Technological University, Singapore), Ping Wang (Nanyang Technological University, Singapore)	14(,

Selected Topics in Communication Theory

<i>Source-Channel Coding over Gaussian Sensor Networks with Active Sensing</i> Emrah Akyol (University of Illinois at Urbana-Champaign, USA), Urbashi Mitra (University of Southern California, USA)	14) (
<i>A Recursive Partitioning Algorithm for Space Information Flow</i> Jiaqing Huang (Huazhong University of Science and Technology, P.R. China), Zongpeng Li (University of Calgary, Canada)	14* \$
<i>The Role of Computational Outage in Dense Cloud-Based Centralized Radio Access Networks</i> Matthew Valenti (West Virginia University, USA), Salvatore Talarico (West Virginia University, USA), Peter Rost (NEC Laboratories Europe, Germany)	14* *
<i>Variance-Constrained Capacity of the Molecular Timing Channel with Synchronization Error</i> Malcolm Egan (Czech Technical University in Prague, Czech Republic), Yansha Deng (Queen Mary, University of London, United Kingdom), Maged El Kashlan (Queen Mary, University of London, United Kingdom), Trung Q. Duong (Queen's University Belfast, United Kingdom)	14+ '
<i>Power Control in Fading Broadcast Channels With Random Arrivals and QoS Constraints</i> Mustafa Ozmen (Syracuse University, USA), M. Cenk Gursoy (Syracuse University, USA)	1(+ -
<i>Increasing the Throughput of HARQ via Multi-packet Transmission</i> Aata El Hamss (INRS-EMT, Canada), Leszek Szczecinski (INRS-EMT, Canada), Pablo Piantanida (SUPELEC, France)	1(8)

Coding Theory

<i>Approaching the Ergodic Capacity with Lattice Coding</i> Ahmed Hindy (University of Texas at Dallas, USA), Aria Nosratinia (University of Texas, Dallas, USA)	1(- &
<i>A Merry-Go-Round Decoding Scheme for Non-binary Quasi-Cyclic LDPC Codes</i> Keke Liu (Department of ECE, University of California, Davis, USA), Juane Li (University of California at Davis, USA), Shu Lin (UC Davis, USA), Khaled Abdel-Ghaffar (University of California, USA)	1(- +
<i>Asynchronous Compute-and-Forward/Integer-Forcing with Quasi-Cyclic Codes</i> Ping-Chung Wang (Texas A&M University, USA), Yu-Chih Huang (Texas A&M University, USA), Krishna Narayanan (Texas A&M University, USA)	15\$(
<i>Predicting the Performance of an Iterative MIMO MMSE Receiver with Vertical Encoding</i> Jarkko Huusko (University of Oulu, Finland), Juha Pyhtila (University of Oulu, Finland), Markku Juntti (University of Oulu, Finland)	15%\$
<i>Distributed Source Coding for Controlling Cyber Physical Systems with Application in Smart Grids</i> Husheng Li (University of Tennessee, USA), Zhu Han (University of Houston, USA)	15%*

Heterogeneous Networks

<i>A Heterogeneous Cellular Network Model with Inter-tier Dependence</i>	
Na Deng (University of Science and Technology of China, P.R. China), Wuyang Zhou (University of Science and Technology of China, P.R. China), Martin Haenggi (University of Notre Dame, USA)	15&&
<i>Cooperative Retransmission in Heterogeneous Cellular Networks</i>	
Gaurav Nigam (University of Notre Dame, USA), Paolo Minero (University of Notre Dame, USA), Martin Haenggi (University of Notre Dame, USA)	15&
<i>Downlink Coverage Probability in MIMO HetNets with Flexible Cell Selection</i>	
Abhishek Kumar Gupta (University of Texas At Austin, USA), Harpreet S Dhillon (Virginia Tech, USA), Sriram Vishwanath (University of Texas Austin, USA), Jeffrey Andrews (The University of Texas at Austin, USA)	15' (
<i>Distributed SIR-Aware Opportunistic Access Control for D2D Underlaid Cellular Networks</i>	
Zheng Chen (SUPELEC, France), Marios Kountouris (Supélec, France)	15(\$
<i>Traffic Driven Resource Allocation in Heterogenous Wireless Networks</i>	
Binnan Zhuang (Northwestern University, USA), Dongning Guo (Northwestern University, USA), Michael Honig (Northwestern University, USA)	15(6
<i>Analysis on the SINR Performance of Dynamic TDD in Homogeneous Small Cell Networks</i>	
Ming Ding (National Information and Communications Technology Australia, Australia), David López-Pérez (Bell Labs Alcatel-Lucent, Ireland), Athanasios V. Vasilakos (National Technical University of Athens & Kuwait University, Greece), Wen Chen (Shanghai Jiao Tong University, P.R. China)	15) &

Network Coding

<i>Space-Time Physical-Layer Network Coding: Harnessing Interference in Multi-Way Communication</i>	
Namyoong Lee (The University of Texas at Austin, USA), Robert Heath (The University of Texas at Austin, USA)	15) -
<i>Joint Network and Dirty-Paper Coding for Multi-way Relay Networks with Pairwise Information Exchange</i>	
Jin Sima (Tsinghua University, P.R. China), Wei Chen (Tsinghua University, P.R. China)	15*)
<i>Physical-Layer Shaped Network Coding with M-PAM Modulation</i>	
Yaozhe Hou (Shanghai Jiao Tong University, P.R. China), Zhiyong Chen (Shanghai Jiao Tong University, P.R. China), Bin Xia (Shanghai Jiao Tong University, P.R. China), Hui Liu (Shanghai JiaoTong University, P.R. China)	15+%
<i>Detection of Imperfectly Synchronized Data Streams in Physical Layer Network Coding</i>	
Scott Miller (Texas A&M University, USA)	1) ++
<i>A Game Theoretic Approach to Minimize the Completion Time of Network Coded Cooperative Data Exchange</i>	
Ahmed Douik (King Abdullah University of Science and Technology (KAUST), Saudi Arabia), Sameh Sorour (King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia), Hamidou Tembine (Supelec, France), Tareq Y. Al-Naffouri (King Abdullah University of Science and Technology, USA), Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi Arabia)	1) , '
<i>Delay Constrained Throughput-Reliability Tradeoff in Network-Coded Wireless Systems</i>	
David Adams (MIT, USA), Jinfeng Du (MIT & KTH (Sweden), USA), Muriel Médard (MIT, USA), Christopher Yu (The Charles Stark Draper Laboratory, USA)	1) - \$

Physical Layer Security

On the Security of Cooperative Single Carrier Systems

Lifeng Wang (Queen Mary, University of London, United Kingdom), Kyeong Jin Kim (Mitsubishi Electric Research Laboratories (MERL), USA), Trung Q. Duong (Queen's University Belfast, United Kingdom), Maged El Kashlan (Queen Mary, University of London, United Kingdom), H. Vincent Poor (Princeton University, USA) 1) - 6

On the Secrecy Capacity of the MISO Wiretap Channel under Imperfect Channel Estimation

Zouheir Rezeki (King Abdullah University of Science and Technology (KAUST), Saudi Arabia), Basel Alomair (King Abdulaziz City for Science and Technology, Saudi Arabia), Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi Arabia) 16\$2

On the Secrecy Capacity of the Broadcast Wiretap Channel with Imperfect Channel State Information

Amal Hyadi (King Abdullah University of Science and Technology, Saudi Arabia), Zouheir Rezeki (King Abdullah University of Science and Technology (KAUST), Saudi Arabia), Ashish Khisti (University of Toronto, Canada), Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi Arabia) 16\$,

Joint Information- and Jamming-Beamforming for Full Duplex Secure Communication

Fengchao Zhu (University of Tsinghua, P.R. China), Feifei Gao (Tsinghua University, P.R. China), Minli Yao (The High-Tech Institute of Xi'an, P.R. China), Li Jian (The High-Tech Institute of Xi'an, P.R. China) 16%(

Optimal Jamming Strategies in Digital Communications-Impact of Modulation

SaiDhiraj Amuru (Virginia Tech, USA), Michael Buehrer (Virginia Tech, USA) 16%-

Transmitter Optimization in MISO Broadcast Channel with Common and Secret Messages

Sanjay Vishwakarma (Indian Institute of Science, Bangalore, India), A. Chockalingam (Indian Institute of Science, India) 16&)

MIMO Systems

Downlink training codebook design and hybrid precoding in FDD massive MIMO Systems

Song Noh (Purdue University, USA), Michael Zoltowski (Purdue University, USA), David Love (Purdue University, USA) 16' %

Broadcast precoding for massive MIMO subject to an instantaneous total power constraint

Mohammad Ali Sedaghat (Norwegian University of Science and Technology, Norway), Ralf R. Müller (University of Erlangen-Nuremberg, Germany), Georg Fischer (University of Erlangen-Nuremberg & Eesy-id, Germany) 16' +

Throughput Optimization for Training-Based Large-Scale Virtual MIMO Systems

Zhiyan Wang (The Chinese University of Hong Kong, Hong Kong), Xiaojun Yuan (ShanghaiTech University, P.R. China), Ying Jun (Angela) Zhang (The Chinese University of Hong Kong, Hong Kong) 16(&

Exploiting Large-Scale MIMO Techniques for Physical Layer Security with Imperfect Channel State Information

Xiaoming Chen (Nanjing University of Aeronautics and Astronautics, P.R. China), Chau Yuen (Singapore University of Technology and Design, Singapore), Zhaoyang Zhang (Zhejiang University, P.R. China) 16(,

Faster Information Propagation on Highways: a Virtual MIMO Approach

Hui Wu (Zhejiang University, P.R. China), Zhaoyang Zhang (Zhejiang University, P.R. China), Huazi Zhang (Zhejiang University, P.R. China) 16) (

Generalized Signal Alignment For Arbitrary MIMO Two-Way Relay Channels

Kangqi Liu (Shanghai Jiao Tong University, P.R. China), Meixia Tao (Shanghai Jiao Tong University, P.R. China), Dingcheng Yang (Nanchang University, P.R. China) 16* %

Interference Management

<i>Settling Conjectures on the Collapse of Degrees of Freedom under Finite Precision CSIT</i> Arash GholamiDavoodi (University of California Irvine, USA), Syed Ali Jafar (University of California Irvine, USA)	16* +
<i>System-level Performance of Interference Alignment</i> Ratheesh K. Mungara (Universitat Pompeu Fabra (UPF), Spain), David Morales (Hong Kong University of Science and Technology, Hong Kong), Angel Lozano (Universitat Pompeu Fabra (UPF), Spain)	16+'
<i>On Design of Improper Signaling for SER Minimization in K-User Interference Channel</i> Hieu Duy Nguyen (Institute for Infocomm Research (I2R), The Agency for Science, Technology and Research (ASTAR), Singapore), Rui Zhang (National University of Singapore, Singapore), Sumei Sun (Institute for Infocomm Research, Singapore)	1* 7-
<i>Degrees of Freedom for a two-cell relay network with soft handoffs</i> Ahmed Zamzam (Nile University, Egypt), Amr El-Keyi (Nile University, Egypt), Mohammed Nafie (Cairo University and Nile University, Egypt), Yahya Mohasseb (Nile University, Egypt)	1* 8)
<i>Achievable Degrees of Freedom of MIMO Multiway Relaying with Pairwise Data Exchange</i> Rui Wang (The Chinese University of Hong Kong, P.R. China), Xiaojun Yuan (ShanghaiTech University, P.R. China)	1* - &
<i>Distributed Channel Quantization for Two-User Interference Networks</i> Xiaoyi Liu (University of California, Irvine, USA), Erdem Koyuncu (University of California, Irvine, USA), Hamid Jafarkhani (University of California, Irvine, USA)	1* - ,

Relay Channels

<i>Rank-Matching for Multihop Multiflow</i> Sundar Rajan Krishnamurthy (University of California Irvine, USA), Syed Ali Jafar (University of California Irvine, USA)	17\$(
<i>Half-Duplex Relaying Over Slow Fading Multiple Access Channel</i> Ming Lei (Concordia University, Canada), M. Reza Soleymani (Concordia University, Canada)	17%\$
<i>Achievable Rates for the Fading Three-Hop Half-Duplex Relay Network using Buffer-Aided Relaying</i> Hebatallah Shoukry (Friedrich-Alexander-University Erlangen-Nurnberg, Germany), Nikola Zlatanov (University of British Columbia, Canada), Vahid Jamali (Friedrich-Alexander-University Erlangen-N"urnberg, Germany), Robert Schober (University of British Columbia, Canada)	17%*
<i>Outage Analysis for Half-Duplex Partial Decode- Forward Relaying over Fading Channels</i> Ahmad Abu Al Haija (McGill University, Canada), Mai Vu (Tufts University, USA)	17&&
<i>Stochastic Throughput Optimization for Two-hop Systems with Finite Relay Buffers</i> Bo Zhou (Shanghai Jiao Tong University, P.R. China), Ying Cui (MIT, USA), Meixia Tao (Shanghai Jiao Tong University, P.R. China)	17& ,
<i>Beamforming for Secure Two-Way Relay Networks with Physical Layer Network Coding</i> Cong Zhang (Beijing University of Posts and Telecommunications, P.R. China), Hui Gao (Beijing University of Posts and Telecommunications, P.R. China), Tiejun Lv (Beijing University of Posts and Telecommunications, P.R. China), Yueming Lu (Beijing University of Posts and Telecommunications, P.R. China), Xin Su (Tsinghua University, P.R. China)	17' (

Communication System Performance

<i>Characterization of Coded Random Access with Compressive Sensing based Multi-User Detection</i>	
Yalei Ji (University of Bremen, Germany), Čedomir Stefanović (Aalborg University & University of Novi Sad, Denmark), Carsten Bockelmann (University of Bremen, Germany), Armin Dekorsy (University of Bremen & Institute for Telecommunications and High-Frequency Techniques, Germany), Petar Popovski (Aalborg University, Denmark)	17(\$
<i>Capacity per Unit Area of Distributed Antenna Systems with Centralized Processing</i>	
Laura Cottatellucci (EURECOM, France)	17(*
<i>The Asymptotic Equivalence between Sensing Systems with Energy Harvesting and Conventional Energy Sources</i>	
Jingxian Wu (University of Arkansas, USA), Jing Yang (University of Arkansas, USA)	17) '
<i>Cooperative Versus Noncooperative Cellular Wireless Systems</i>	
Dushyantha Basnayaka (The University of Edinburgh, United Kingdom), Harald Haas (The University of Edinburgh, United Kingdom)	17) -
<i>Closed-Form CRLBs for SNR Estimation from Turbo-Coded Square-QAM-Modulated Signals</i>	
Faouzi Bellili (INRS, Canada), Achref Methenni (Institut National de la Recherche Scientifique, INRS-EMT, Montreal, Canada), Sofiene Affes (INRS-EMT, Canada)	17*)
<i>Truncated Multi-hop ARQ Type-I: Outage Probability and Throughput Analysis</i>	
Ali Asghar Haghighi (INRS-EMT, Canada), Leszek Szczecinski (INRS-EMT, Canada), Fabrice Labeau (McGill University, Canada)	17+&

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Next Generation Wireless Network Design

<i>Energy-Efficient Base Station Cooperation in Downlink Heterogeneous Cellular Networks</i>	
Weili Nie (Southeast University, P.R. China), Xiaoming Wang (Southeast University, P.R. China), Fu-Chun Zheng (The University of Reading, United Kingdom), Wenyi Zhang (University of Science and Technology of China, P.R. China)	1+-
<i>A Novel Intelligent Mobile Backhaul RAN Architecture for Emerging Heterogeneous Networks</i>	
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<i>An Interference Cancellation Strategy for Broadcast in Hierarchical Cell Structure</i>	
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<i>Base Station Density Optimization for High Energy Efficiency in Two-Tier Cellular Networks</i>	
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Virtual Network Design

<i>Efficient Joint Approaches for Location-Constrained Survivable Virtual Network Embedding</i> Huihui Jiang (University of Science and Technology of China, P.R. China), Long Gong (University of Science and Technology of China, P.R. China), Zuqing Zhu (University of Science and Technology of China, P.R. China)	18%
<i>Evaluation of parallel processing control of virtual switch architecture on large-scale network</i> Hiroki Date (NTT, Japan), Kenichi Higuchi (NTT, Japan), Masaru Katayama (NTT Network Service Systems Labs, Japan), Hiroaki Ogawa (NTT, Japan)	18%*
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Content Centric Network Design

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Software Defined Network Design

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Flow-level consistent update in SDN based on K-prefix covering

Kun Zhao (Tsinghua University & Graduate School at Shenzhen, P.R. China), Qing Li (Graduate School at Shenzhen, Tsinghua University, P.R. China), Yong Jiang (Graduate School at Shenzhen, Tsinghua University, P.R. China) 1, , (

Scalable and Bandwidth-Efficient Multicast for Software-Defined Networks

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A Robust SDN Network Architecture for Service Providers

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Next Generation Network Design I

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An Autonomous Decentralized Adaptive Function for Retaining Control Strength in Large-Scale and Wide-Area System

Yusuke Sakumoto (Tokyo Metropolitan University, Japan), Masaki Aida (Tokyo Metropolitan University, Japan), Hideyuki Shimonishi (NEC, Japan) 19&¹

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Next Generation Network Design II

<i>Adding Geographic-awareness to DHT-based Object Naming Service Architectures</i> Ahmed Jedda (University of Ottawa, Canada), Hussein T Mouftah (University of Ottawa, Canada)	B #5
<i>FlowCover: Low-cost Flow Monitoring Scheme in Software Defined Networks</i> Zhiyang Su (Hong Kong University of Science and Technology, Hong Kong), Ting Wang (Hong Kong University of Science and Technology, Hong Kong), Yu Xia (Hong Kong University of Science and Technology, P.R. China), Mounir Hamdi (Hong Kong University of Science and Technology, P.R. China)	19) *
<i>Efficient Integration of Software Defined Networking and Information-Centric Networking with CoLoR</i> Luo Hongbin (Beijing Jiaotong University, P.R. China), Jianbo Cui (Beijing Jiaotong University, P.R. China), Zhe Chen (Beijing Jiaotong University, P.R. China), Mingshuang Jin (Beijing Jiaotong University, P.R. China), Zhang Hongke (Beijing Jiaotong University, P.R. China)	%- * &
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Forwarding Design and Next Generation Network Management

<i>A Scalable and Flexible Packet Forwarding Method for Future Internet Networks</i> Andrzej Beben (Warsaw University of Technology, Poland), Piotr Wiśniewski (Warsaw University of Technology, Poland), Jordi Mongay Batalla (National Institute of Telecommunications & Warsaw University of Technology, Poland), George K Xilouris (NCSR Demokritos, Greece)	%- , *
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<i>An Architecture for Dynamic Resource Adjustment in VSDNs based on Traffic Demand</i>	
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Switching and Routing in Optical Networks

<i>Minimum-Cost Survivable Virtual Optical Network Mapping in Flexible Bandwidth Optical Networks</i>	
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<i>Grooming Demands instead of Traffic: Benefits of a Choice-Based Approach to Green Optical Networks</i>	
Ahmet C Babaoglu (North Carolina State University, USA), Rudra Dutta (North Carolina State University, USA)	20&-
<i>Metropolitan and Access Network Architecture Design for Optical Flow Switching</i>	
Anny Xijia Zheng (Massachusetts Institute of Technology, USA), Lei Zhang (MIT, USA), Vincent Chan (Massachusetts Institute of Technology, USA)	20' *
<i>Virtual Optical Network Embedding in Multi-Domain Optical Networks</i>	
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<i>Design of Optical and Electronic Combined Buffer Architecture for Optical Packet Switches</i>	
Takahiro Hirayama (National Institute of Information and Communications Technology, Japan), Takaya Miyazawa (National Institute of Information and Communications Technology (NICT), Japan), Hiroaki Harai (National Institute of Information and Communications Technology, Japan)	20(,
<i>Multiple input single output optical buffers for asynchronous optical packet switched networks</i>	
Shuna Yang (ITEM, Norwegian University of Science and Technology, Norway), Norvald Stol (Norwegian University of Science and Technology, Norway)	205(

Multiplexing, Modulation and Channel Capacity

<i>Improved Indoor VLC MIMO Channel Capacity Using Mobile Receiver with Angular Diversity Detectors</i>	
Paul Fahamuel (University of Edinburgh & Dar Es Salaam Institute of Technology-Tanzania, United Kingdom), John Thompson (University of Edinburgh, United Kingdom), Harald Haas (The University of Edinburgh, United Kingdom)	20* \$
<i>Capacity Bounds for Dimmable Visible Light Communications Using PIN Photodiodes with Input-Dependent Gaussian Noise</i>	
Jin-Yuan Wang (Southeast University, P.R. China), Jun-Bo Wang (Southeast University, P.R. China), Ming Chen (Southeast University, P.R. China), Jiangzhou Wang (University of Kent, United Kingdom)	20* *
<i>Analysis of downlink transmission in DCO-OFDM-based optical attocell networks</i>	
Cheng Chen (University of Edinburgh, United Kingdom), Muhammad Ijaz (University of Edinburgh, United Kingdom), Dobroslov A. Tsonev (University of Edinburgh, United Kingdom), Harald Haas (The University of Edinburgh, United Kingdom)	2\$+&
<i>Secret Key Agreement for Free-Space Optical Communications Over Strong Turbulence Channels</i>	
Ning Wang (The University of British Columbia, Canada), Xuegui Song (University of British Columbia, Canada), Julian Cheng (University of British Columbia, Canada), Victor CM Leung (The University of British Columbia, Canada)	2\$+,
<i>On the Performance of Single- and Multi-carrier Modulation Schemes for Indoor Visible Light Communication Systems</i>	
Mohammadreza Aminikashani (The Pennsylvania State University, USA), Mohsen Kavehrad (The Pennsylvania State University -- University Park, USA)	2\$, (
<i>Quadrature Diversity Combining for Pulse-Amplitude Modulated DMT in IM/DD Channels</i>	
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Wireless-Optical Communications

<i>A Compact Signal Constellation for Wireless Optical Communications</i>	
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<i>Hadamard Coded Modulation: An Alternative to OFDM for Wireless Optical Communications</i>	
Mohammad Noshad (University of Virginia, USA), Maite Brandt-Pearce (University of Virginia, USA)	21\$&
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Yichen Li (The University of Edinburgh, United Kingdom), Stefan Videv (University of Edinburgh, United Kingdom), Mohamed M. Abdallah (Texas A&M University at Qatar & Cairo University at Cairo, Qatar), Khalid A. Qaraqe (Texas A&M University at Qatar, USA), Murat Uysal (Ozyegin University, Turkey), Harald Haas (The University of Edinburgh, United Kingdom)	21\$,
<i>Particle Stream Channel Modeling and Estimation for Non-line of Sight Optical Wireless Communication</i>	
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Optical Access Network, Metro Area Network, and Elastic Optical Network

Advanced Sleep-Aware Dynamic Bandwidth Allocation for 10G-EPONs

Dung Pham Van (Scuola Superiore Sant'Anna, Italy), Maluge Pubuduni Imali Dias (NICTA Victoria Research Laboratory, Australia), Koteswararao Kondepudi (Scuola Superiore Sant'Anna, Italy), Piero Castoldi (Scuola Superiore Sant'Anna, Italy), Elaine Wong (The University of Melbourne, Australia), Luca Valcarenghi (Scuola Superiore Sant'Anna, Italy) 21' %

Optimal FSO Relay Nodes Placement With Link Obstacles and Infeasible Regions

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Bandwidth Efficient Multi-Level MPPM Encoding Decoding Algorithms for Joint Brightness-Rate Control in VLC Systems

Abu Bakar Siddique (Pakistan Telecommunication Company Limited, Pakistan), Muhammad Tahir (University of Engineering and Technology Lahore, Pakistan) 214'

A Techno-Economic Study of Network Coding Protection Schemes

Wilson Ramirez (Technical University of Catalonia (UPC) & CRAAX, Networking and Information Technology Lab, Spain), Xavier Masip-Bruin (Universitat Politècnica de Catalunya & Advanced Network Architectures Lab (CRAAX), Spain), Eva Marín-Tordera (Technical University of Catalonia UPC, Spain), Marcelo Yannuzzi (Technical University of Catalonia (UPC) & Networking and Information Technology Lab, Spain), Anny Martinez (Technical University of Catalonia (UPC), Spain), Sergio Sánchez-López (Technical University of Catalonia, Spain), Muhammad Shuaib Siddiqui (Universitat Politècnica de Catalunya & CRAAX and NetIT Lab, Spain), Victor López (Telefonica I+D, Spain) 21(8

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Virtual Network Embedding and Reconfiguration in Elastic Optical Networks

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SDN, Datacenter, and Cloud

Field Trial of a Software Defined Network (SDN) using Carrier Ethernet and Segment Routing in a Tier-1 Provider

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Access Networks and Systems

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<i>Experimental Evaluation of TCP Performance over 10Gb/s Passive Optical Networks (XG-PON)</i> Jerome A Arokiam (University College Cork & CTVR, Ireland), Xiuchao Wu (University College Cork, Ireland), Kenneth N Brown (University College Cork, Ireland), Cormac J. Sreenan (University College Cork, Ireland)	22&'
<i>Coexistence Analysis of Asynchronous Digital Subscriber Lines with Different Sampling Rate and Carrier Frequency Spacing</i> Sanda Drakulić (Forschungszentrum Telekommunikation Wien (FTW), Austria), Martin Wolkerstorfer (FTW Telecommunications Research Center Vienna, Austria), Driton Statovci (FTW Telecommunications Research Center Vienna, Austria)	22' (

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(Cloud): Evaluation of Data Center Network Topologies and Multipath Protocols

<i>A Perturbation Algorithm for Embedding Virtual Data Centers in Multipath Networks</i> Jian Zou (Shanghai Jiao Tong University, P.R. China), Fangfang Yan (Shanghai Jiao Tong University, P.R. China), Tony Lee (SJTU, P.R. China), Weisheng Hu (Shanghai Jiao Tong University, P.R. China)	22(\$
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Dynamic Topology Management in Optical Datacenter Networks

- Yangming Zhao (University of Electronic Science and Technology of China, P.R. China), Sheng Wang (University of Electronic Science and Technology of China, P.R. China), Shouxi Luo (University of Electronic Science and Technology of China, P.R. China), Hongfang Yu (University of Electronic Science and Technology of China, P.R. China), Shizhong Xu (University of Electronic Science and Technology, P.R. China), Xiaoning Zhang (University of Electronic Science and Technology of China, P.R. China) 22(*
- NovaCube: A Low Latency Torus-Based Network Architecture for Data Centers*
Ting Wang (Hong Kong University of Science and Technology, Hong Kong), Zhiyang Su (Hong Kong University of Science and Technology, Hong Kong), Yu Xia (Hong Kong University of Science and Technology, P.R. China), Bo Qin (The Hong Kong University of Science and Technology, Hong Kong), Mounir Hamdi (Hong Kong University of Science and Technology, P.R. China) 22) &
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(Cloud): Mobile Cloud Networking

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Xueli An (DOCOMO Euro-Labs, Germany), Wolfgang Kiess (DOCOMO Euro-Labs, Germany), David Perez-Caparrós (Huawei European Research Center, Germany) &&-)
- Minimum Latency Server Selection for Heterogeneous Cloud Services*
He Chang (Hong Kong Baptist University, Hong Kong), Hai Liu (Hong Kong Baptist University, Hong Kong), Yiu-Wing Leung (Hong Kong Baptist University, Hong Kong), Xiaowen Chu (Hong Kong Baptist University, Hong Kong) 2&+*
- On the Statistical Multiplexing Gain of Virtual Base Station Pools*
Jingchu Liu (Tsinghua University, P.R. China), Sheng Zhou (Tsinghua University, P.R. China), Jie Gong (Tsinghua University, P.R. China), Zhisheng Niu (Tsinghua University, P.R. China), Shugong Xu (Intel Labs, P.R. China) 2&, '
- Traffic-Aware Graph-Based Dynamic Frequency Reuse for Heterogeneous Cloud-RAN*
Kaiwei Wang (University of Science and Technology of China, P.R. China), Ming Zhao (University of Science and Technology of China, P.R. China), Wuyang Zhou (University of Science and Technology of China, P.R. China) &3\$,
- A Dynamic Execution Offloading Model For Efficient Mobile Cloud Computing*
Yong Jiang (Graduate School at Shenzhen, Tsinghua University, P.R. China), Juhua He (Graduate School at Shenzhen, Tsinghua University, P.R. China), Qing Li (Graduate School at Shenzhen, Tsinghua University, P.R. China), Xi Xiao (Graduate School at Shenzhen, Tsinghua University, P.R. China) 23\$&

(Cloud): Virtual Machine Migration and Allocation

To Migrate or to Wait: Delay-Cost Tradeoff for Cloud Data Centers

Xiumin Wang (Hefei University of Technology, P.R. China), Xiaoming Chen (Nanjing University of Aeronautics and Astronautics, P.R. China), Chau Yuen (Singapore University of Technology and Design, Singapore), Weiwei Wu (Southeast University of China, P.R. China), Wei Wang (Hefei University of Technology, P.R. China) 23%

Joint Virtual Machine Placement and Migration Scheme for Datacenters

Thuan Duong-Ba (Oregon State University, USA), Thanh Nguyen (Oregon State, USA), Bella Bose (Oregon State University, USA), Tuan Tran (University of Louisville, USA) 23&\$

XenFlow: Seamless Migration Primitive and Quality of Service for Virtual Networks

Diogo Mattos (Universidade Federal do Rio de Janeiro & GTA, Brazil), Otto Carlos M. B. Duarte (Universidade Federal do Rio de Janeiro, Brazil) 23&6

Optimal VM Migration Planning for Data Centers

Jiaqiang Liu (Tsinghua University, P.R. China), Li Su (Tsinghua University, P.R. China), Yuchen Jin (Tsinghua, P.R. China), Yong Li (Tsinghua University, P.R. China), Depeng Jin (Tsinghua University, P.R. China), Lieguang Zeng (Tsinghua University, P.R. China) 233&

Dynamic Resource Reservation via Broker Federation in Cloud Service: A Fine-grained Heuristic-Based Approach

Kaiyang Liu (School of Information Science & Engineering, Central South University, P.R. China), Jun Peng (School of Information Science & Engineering, Central South University, P.R. China), Weirong Liu (Central South University, P.R. China), Pingping Yao (School of Information Science & Engineering, Central South University, P.R. China), Zhiwu Huang (School of Information Science & Engineering, Central South University, P.R. China) 23' ,

Resource Management in Cloud Computing with Frictions and Congestion Weather

Martin Valdez-Vivas (Stanford University, USA), Nicholas Bambos (Stanford University, USA), John Apostolopoulos (Cisco Systems, USA) 23((

GC14 SAC Data Storage: Globecom 2014 - Symposium on Selected Areas in Communications: GC14 SAC Data Storage

Data Storage

Fundamental Limits on Communication for Oblivious Updates in Storage Networks

Preetum Nakkiran (University of California, Berkeley, USA), Nihar B Shah (University of California, Berkeley, USA), K. v. Rashmi (University of California at Berkeley, USA) &' *'

New MDS Array Code Correcting Multiple Disk Failures

Hanxu Hou (Peking University Shenzhen Graduate School, P.R. China), Kenneth W. Shum (Institute of Network Coding, Hong Kong), Minghua Chen (The Chinese University of Hong Kong, P.R. China), Hui Li (Peking University Shenzhen Graduate School, P.R. China) &' * -

Modelling of the Threshold Voltage Distributions of Sub-20nm NAND Flash Memory

Thomas Parnell (IBM Research - Zurich, Switzerland), Nikolaos Papandreou (IBM Research - Zurich, Switzerland), Thomas Mittelholzer (IBM Zurich Research Laboratory, Switzerland), Haralampos Pozidis (IBM Research - Zurich, Switzerland) 2') %

Polar Code Design for Intersymbol Interference Channels

Ubaid Ullah Fayyaz (Georgia Institute of Technology, USA), John Barry (Georgia Institute of Technology, USA) 2') +

On the Latency of Heterogeneous MDS Queue

Akshay Kumar (Virginia Polytechnic Institute and State University, USA), Ravi Tandon (Virginia Tech, USA), T. Charles Clancy (Virginia Tech, USA) 2' +)

Beyond Proofs of Data Possession: Finding Defective Blocks in Outsourced Storage

Juan Camilo Corena (Personal, Japan), Anirban Basu (KDDI R&D Laboratories Inc., Japan), Shinsaku Kiyomoto (KDDI R&D Laboratories Inc., Japan), Yutaka Miyake (KDDI R&D Laboratories Inc., Japan), Tomoaki Ohtsuki (Keio University, Japan) 2' , %

GC14 SAC e-Health: Globecom 2014 - Symposium on Selected Areas in Communications: GC14 SAC e-Health

(eHealth): Body Area Networks

<i>Cooperative Compressed Sensing schemes for Telemonitoring of Vital Signals in WBANs</i>	
Aris S. Lalos (Technical University of Catalonia (UPC), Spain), Elli Kartsakli (Universitat Politècnica de Catalunya (UPC), Spain), Angelos Antonopoulos (Telecommunications Technological Centre of Catalonia (CTTC), Spain), Stefano Tennina (University of L'Aquila, Italy), Marco Di Renzo (French National Center for Scientific Research (CNRS), France), Luis Alonso (Universidad Politécnica de Catalunya-BarcelonaTECH & Telecommunications and Aeronautical Engineering School of Castelldefels, Spain), Christos Verikoukis (Telecommunications Technological Centre of Catalonia, Spain)	2' 8+
<i>Prioritized Payload Tuning Mechanism for Wireless Body Area Network-Based Healthcare Systems</i>	
Soumen Moulik (Indian Institute of Technology, Kharagpur, India), Sudip Misra (Indian Institute of Technology-Kharagpur, India), Chandan Chakraborty (IIT Kharagpur, India), Mohammad S. Obaidat (Monmouth University, USA)	2' - 3
<i>Cost-Effective Reliability-and Energy-Based Intra-WBAN Interference Mitigation</i>	
Hassine Moun gla (University of Paris Descartes, France), Abdallah Jarray (University of Ottawa, Canada), Ahmed Karmouch (University of Ottawa, Canada), Ahmed Mehaoua (University of Paris Descartes, France)	2' - -
<i>Adaptive BCH Code for High Throughput of IEEE802.15.6 based WBAN</i>	
Pham Thanh Hiep (Yokohama National University, Japan), Ryuji Kohno (Yokohama National University, Japan)	2446

(eHealth): eHealth Communications

<i>AIM: Adaptive Internetwork Interference Mitigation Amongst Co-existing Wireless Body Area Networks</i>	
Samaneh Movassaghi (Australian National University & NICTA, Australia), Mehran Abolhasan (University of Technology Sydney, Australia), David B Smith (National ICT Australia, Australia), Abbas Jamalipour (University of Sydney, Australia)	&(* \$

(eHealth): Body Area Networks

<i>An Energy-Efficient Leader Election Mechanism for Wireless Body Area Networks</i>	
Rongrong Zhang (University of Paris Descartes, France), Hassine Moun gla (University of Paris Descartes, France), Ahmed Mehaoua (University of Paris Descartes, France)	&(%%

Selected Areas in Communications Interactive Presentations I: (eHealth) (Human Centric Computing)

<i>Energy Efficient in Medical Ad Hoc Sensors Network by Exploiting Routing Protocols</i>	
Pascal Lorenz (University of Haute Alsace, France), Sofiane Hamrioui (USTHB, Algeria), Jaime Lloret (Universidad Politécnica de Valencia, Spain), Lalam Mustapha (University of Tizi, Algeria)	24%+
<i>Context-Driven Online Learning for Activity Classification in Wireless Health</i>	
Jie Xu (University of California, Los Angeles, USA), James Xu (University of California, Los Angeles, USA), Linqi Song (University of California, Los Angeles, USA), Gregory Pottie (University of California at Los Angeles, USA), Mihaela van der Schaar (University of California, Los Angeles (UCLA), USA)	24&'

(eHealth): eHealth Communications

Analysis of Dependency Evaluation Models for eHealth Services

Haider Mshali (CampusFranc, University of Bordeaux and Rennes 1- LaBRI/IRISA Labs, France), Tayeb Lemlouma (IRISA Lab and Rennes 1 University, France), Damien Magoni (University of Bordeaux, France) 24&-

A Cloud-based Interference-aware Remote Health Monitoring System for Non-hospitalized Patients

Ghada Almashaqbeh (University of Notre Dame, USA), Thaier Al-Hayajneh (Hashemite University, Jordan), Athanasios V. Vasilakos (National Technical University of Athens & Kuwait University, Greece) 24' *

Energy-efficient In-network Encryption/Decryption for Wireless Body Area Sensor Networks

Ye Yan (Oakland University, USA), Tao Shu (Oakland University, USA) 24(&

eBPlatform: An IoT-based System for NCD Patients Homecare in China

Yu Liu (Beihang University, P.R. China), Jianwei Niu (Beihang University, P.R. China), Lianjun Yang (Institute of Microelectronics of CAS, P.R. China), Lei Shu (Guangdong University of Petrochemical Technology, P.R. China) 24(,

Comparison of Situation Awareness Algorithms for Remote Health Monitoring with Smartphones

Igor Bisio (University of Genoa, Italy), Fabio Lavagetto (University of Genoa, Italy), Mario Marchese (DIST- University of Genoa, Italy), Andrea Sciarrone (University of Genoa, Italy) 2(5(

(eHealth): Body Area Networks

Analysis of Reliability and Throughput under Saturation Condition of IEEE 802.15.6 CSMA/CA for Wireless Body Area Networks

Subhadeep Sarkar (Indian Institute of Technology, Kharagpur, India), Sudip Misra (Indian Institute of Technology-Kharagpur, India), Chandan Chakraborty (IIT Kharagpur, India), Mohammad S. Obaidat (Monmouth University, USA) 2(\$5

GC14 SAC Green Communication Systems and Networks: Globecom 2014 - Symposium on Selected Areas in Communications: GC14 SAC Green Communication Systems and Networks

Green Cellular Networks

Cost-Efficient Radio Resource Allocation in Hybrid Energy Cellular Networks

Hussein Al Haj Hassan (Telecom Bretagne, France), Alexander Pelov (Institut Mines-Telecom / Telecom Bretagne, France), Loutfi Nuaymi (Telecom Bretagne, France) 2(+&

Green Wireless Networks I

Traffic Management for Sustainable LTE Networks

Andres Kwasinski (Rochester Institute of Technology, USA), Alexis Kwasinski (University of Texas, USA) &* %

Green Cellular Networks

<i>Coalition-Assisted Energy Efficiency Optimization via Uplink Macro-Femto Cooperation</i> Xiao Tang (Xi'an Jiaotong University, P.R. China), Pinyi Ren (Xi'an Jiaotong University, P.R. China), Yichen Wang (Xi'an Jiaotong University, P.R. China), Qinghe Du (Xi'an Jiaotong University, P.R. China), Li Sun (Xi'an Jiaotong University, P.R. China)	8(+-)
<i>Reducing the Energy Consumption of Small Cell Networks subject to QoE constraints</i> Nikolaos Sapountzis (EURECOM, France), Stylianos Sarantidis (EURECOM, France), Thrasyvoulos Spyropoulos (EURECOM, France), Navid Nikaein (Eurecom, France), Umer Salim (Intel Mobile Communications, France)	2()
<i>Efficient Packet Detection for D2D Power-Saving Communications Over Mobile Wireless Cellular Networks</i> Fan Yang (University of Electronic Science and Technology of China, P.R. China), Xi Zhang (Texas A&M University, ECE Department, USA)	2(- &)
<i>Resource Provisioning and Dimensioning for Solar Powered Cellular Base Stations</i> Vinay Chamola (National University of Singapore, Singapore), Biplab Sikdar (Rensselaer Polytechnic Institute, USA)	24- ,

Green Clouds and Data Centers

<i>Scalable Workload Management for Water Efficiency in Data Centers</i> Lanchao Liu (University of Houston, USA), Shaolei Ren (Florida International University, USA), Zhu Han (University of Houston, USA)	25\$(
<i>A General Framework For Performance Guaranteed Green Data Center Networking</i> Ting Wang (Hong Kong University of Science and Technology, Hong Kong), Yu Xia (Hong Kong University of Science and Technology, P.R. China), Jogesh K. Muppala (Hong Kong University of Science and Technology, Hong Kong), Mounir Hamdi (Hong Kong University of Science and Technology, P.R. China)	25%\$
<i>Dynamic Power Capping for Multilayer Hybrid Power Networks</i> Jacek Rzasz (AGH University of Science and Technology, Poland), Piotr Boryło (AGH University of Science and Technology, Poland), Artur Lason (AGH University of Science and Technology, Poland), Andrzej Szymanski (AGH University of Science and Technology, Poland), Andrzej Jajszczyk (AGH University of Science and Technology, Poland)	25%6
<i>Optimizing Rule Placement in Software-Defined Networks for Energy-aware Routing</i> Frederic Giroire (CNRS, France), Joanna Moulrierac (MASCOTTE, I3S (CNRS UNS) INRIA, France), Truong Khoa Phan (MASCOTTE, CNRS-UNS, INRIA, France)	25&'
<i>A Green Network-Aware VMs Placement Mechanism</i> Albert P. M. De La Fuente Vigliotti (University of São Paulo, Brazil), Daniel M. Batista (University of São Paulo, Brazil)	25' \$
<i>Achieving Energy-Proportionality in Fat-tree DCNs</i> Qing Yi (Portland State University, USA), Suresh Singh (Portland State University, USA)	25' *

Selected Areas in Communications Interactive Presentations II: Green Communication Systems and Networks

<i>Experimental Study of Concurrent Data and Wireless Energy Transfer for Sensor Networks</i> M. Yousof Naderi (Northeastern University, USA), Kaushik Chowdhury (Northeastern University, USA), Stefano Basagni (Northeastern University, USA), Wendi Heinzelman (University of Rochester, USA), Swades De (Indian Institute of Technology Delhi, India), Soumya Jana (Indian Institute of Technology, Hyderabad, India)	25('
<i>Energy-Harvesting Powered Transmissions of Delay-limited Data Packets</i> Xiaoqing Chen (Fudan University, P.R. China), Xin Wang (Fudan University, P.R. China)	25) \$

<i>Wireless Information and Energy Transfer in Interference Aware Massive MIMO Systems</i>	
Hengzhi Wang (Zhejiang University, P.R. China), Wei Wang (Zhejiang University, P.R. China), Xiaoming Chen (Nanjing University of Aeronautics and Astronautics, P.R. China), Zhaoyang Zhang (Zhejiang University, P.R. China)	&)) *
<i>A Game Theoretical Approach for Energy Trading in Wireless Networks Powered by Green Energy</i>	
Zhongming Zheng (University of Waterloo, Canada), Lin X. Cai (Illinois Institute of Technology, USA), Ning Zhang (University of Waterloo, Canada), Ran Zhang (University of Waterloo, Canada), Sherman Shen (University of Waterloo, Canada)	&) * &
<i>Joint Link Selection and Relay Power Allocation for Energy Harvesting Relaying Systems</i>	
Yuyi Mao (Hong Kong University of Science and Technology, Hong Kong), Jun Zhang (The Hong Kong University of Science and Technology, Hong Kong), Shenghui Song (The Hong Kong University of Science and Technology, Hong Kong), Khaled B. Letaief (The Hong Kong University of Science and Technology, Hong Kong)	2) 6,
<i>Energy-Efficient Antenna Selection and Power Allocation for Large-Scale Multiple Antenna Systems with Hybrid Energy Supply</i>	
Zhenyu Zhou (North China Electric Power University & Waseda University, P.R. China), Sheng Zhou (Tsinghua University, P.R. China), Jie Gong (Tsinghua University, P.R. China), Zhisheng Niu (Tsinghua University, P.R. China)	2) + (

Green Optical Networking

<i>Energy-aware de-allocation of lightpaths in WDM networks</i>	
Juliana De Santi (State University of Campinas, Brazil), Nelson L. S. da Fonseca (State University of Campinas, Brazil)	&) , *
<i>Fitting Green Anycast Strategies to Cloud Services in WDM Hybrid Power Networks</i>	
Piotr Boryło (AGH University of Science and Technology, Poland), Artur Lason (AGH University of Science and Technology, Poland), Jacek Rzasa (AGH University of Science and Technology, Poland), Andrzej Szymanski (AGH University of Science and Technology, Poland), Andrzej Jajszczyk (AGH University of Science and Technology, Poland)	&) - &
<i>Fine-Grain Power Control for Combined Input-Crosspoint Queued Switches</i>	
Yu Xia (Hong Kong University of Science and Technology, P.R. China), Ting Wang (Hong Kong University of Science and Technology, Hong Kong), Zhiyang Su (Hong Kong University of Science and Technology, Hong Kong), Mounir Hamdi (Hong Kong University of Science and Technology, P.R. China)	&) - -
<i>Radio over Fiber Based Networks for the Smart Grid</i>	
Abolfazl Ghassemi (University of Tehran, Iran), T. Aaron Gulliver (University of Victoria, Canada), John Cioffi (Stanford University, USA), George K. Karagiannidis (Aristotle University of Thessaloniki, Greece)	&* \$)
<i>On Forecasting the ONU Sleep Period in XG-PON Systems Using Exponential Smoothing Techniques</i>	
Panagiotis Sarigiannidis (University of Western Macedonia, Greece), Athanasios Gkaliouris (University of Western Macedonia, Greece), Vasiliki Kakali (Aristotle University of Thessaloniki, Greece), Malamati Louta (University of Western Macedonia, Greece), Georgios Papadimitriou (Aristotle University, Greece), Petros Nicopolitidis (Aristotle University, Greece), Mohammad S. Obaidat (Monmouth University, USA)	2) , \$
<i>Energy consumption of Indoor Radio-over-Fiber Distribution Links: Experimental Findings</i>	
Apurva Gowda (Stanford University, USA), Hejie Yang (Corning Incorporated, USA), Solomon Abraha (Corning Incorporated, USA), Anthony Ng'oma (Corning Incorporated, USA), Ahmad R. Dhaini (American University of Beirut, Lebanon), Leonid Kazovsky (Stanford University, USA), Kadir Albeyoglu (Stanford University, USA)	26%&

Green Wireless Networks I

Joint Energy and Delay-aware Scheme for 5G Mobile Cognitive Radio Networks

Constandinos X. Mavromoustakis (University of Nicosia, Cyprus), George Mastorakis (Technological Educational Institute of Crete, Greece), Athina Bourdena (Technological Educational Institute of Crete, Greece), Evangelos Pallis (Technological Educational Institute of Crete, Greece), Georgios Kormentzas (University of the Aegean, Greece), Christos Dimitriou (Dept. of Computer Science, University of Nicosia, Cyprus) 26&(

Energy-Efficient Resource Allocation in Shared Full-Duplex Relaying Cellular Networks

Gang Liu (Beijing University of Posts and Telecommunications, P.R. China), F. Richard Yu (Carleton University, Canada), Hong Ji (Beijing University of Posts and Telecommunications, P.R. China), Victor CM Leung (The University of British Columbia, Canada) 26' %

A Stochastic Power Control Game for Two-Tier Cellular Networks with Energy Harvesting Small-Cells

Kien Tran (University of Manitoba, Canada), Hina Tabassum (University of Manitoba, Canada), Ekram Hossain (University of Manitoba, Canada) 26' +

Joint Uplink and Downlink Cell Selection in Cognitive Small Cell Heterogeneous Networks

Agapi Mesodiakaki (Universitat Politècnica de Catalunya, Spain), Ferran Adelantado (Universitat Oberta de Catalunya, Spain), Luis Alonso (Universidad Politécnica de Catalunya-BarcelonaTECH & Telecommunications and Aerospace Engineering School of Castelldefels, Spain), Christos Verikoukis (Telecommunications Technological Centre of Catalonia, Spain) 26('

Smart Grid Communications

Optimal Joint Transmission Scheduling for Green Energy Powered Coordinated Multi-Point Transmission System

Zejue Wang (Institute of Acoustics, Chinese Academy of Sciences, P.R. China), Hongjia Li (Institute of Acoustics, Chinese Academy of Sciences & Beijing University of Posts and Telecommunications, P.R. China), Xin Chen (Chinese Academy of Sciences, P.R. China), Song Ci (University of Nebraska-Lincoln, USA) &* - \$

Green Wireless Networks I

Sharing the Small Cells for Energy Efficient Networking: How much does it cost?

Alexandra Bousia (UPC, Spain), Elli Kartsakli (Universitat Politècnica de Catalunya (UPC), Spain), Angelos Antonopoulos (Telecommunications Technological Centre of Catalonia (CTTC), Spain), Luis Alonso (Universidad Politécnica de Catalunya-BarcelonaTECH & Telecommunications and Aerospace Engineering School of Castelldefels, Spain), Christos Verikoukis (Telecommunications Technological Centre of Catalonia, Spain) &* (-

Green Wireless Networks II

Resource Allocation in Self-Sustainable Green Wireless Networks with Combinatorial Auction

Wenbo Wang (Rochester Institute of Technology, USA), Andres Kwasinski (Rochester Institute of Technology, USA), Alexis Kwasinski (University of Texas, USA) 2*))

Offloading With IFOM: The Uplink Case

Vasileios Miliotis (Universitat Politècnica de Catalunya, Spain), Luis Alonso (Universidad Politécnica de Catalunya-BarcelonaTECH & Telecommunications and Aerospace Engineering School of Castelldefels, Spain), Christos Verikoukis (Telecommunications Technological Centre of Catalonia, Spain) 2* * %

<i>Antenna Selection and Power Splitting for Simultaneous Wireless Information and Power Transfer in Interference Alignment Networks</i>	
Xuanheng Li (Dalian University of Technology, P.R. China), Yi Sun (Dalian University of Technology, P.R. China), F. Richard Yu (Carleton University, Canada), Nan Zhao (Dalian University of Technology, P.R. China)	2* * 7
<i>Green communication via Type-I ARQ: Finite block-length analysis</i>	
Behrooz Makki (Chalmers University of Technology, Sweden), Tommy Svensson (Chalmers University of Technology, Sweden), Michele Zorzi (Università degli Studi di Padova, Italy)	2* 7'
<i>Low Complexity Energy-Efficient Design for OFDMA Systems with an Elaborate Power Model</i>	
Qingqing Wu (Shanghai Jiao Tong University, P.R. China), Wen Chen (Shanghai Jiao Tong University, P.R. China), Jun Li (University of Sydney, Australia), Jinsong Wu (Bell Laboratories, Alcatel-Lucent, P.R. China)	2* 7,
<i>HePNC: Design of Physical Layer Network Coding with Heterogeneous Modulations</i>	
Haoyuan Zhang (UVic, Canada), Lei Zheng (UVic, Canada), Lin Cai (University of Victoria, Canada)	2* , (

Smart Grid Communications

<i>Cooperative Energy Trading in CoMP Systems Powered by Smart Grids</i>	
Jie Xu (National University of Singapore, Singapore), Rui Zhang (National University of Singapore, Singapore)	2* - +
<i>Economic Coalition Strategies for Cost Reductions in Microgrids Distribution Networks</i>	
Yi Xu (New Jersey Institute of Technology, USA), Edwin Hou (New Jersey Institute of Technology, USA), Nirwan Ansari (NJIT, USA)	27\$'
<i>SmartCar: Smart Charging and Driving Control for Electric Vehicles in the Smart Grid</i>	
Lei Rao (General Motors Research Lab, USA), Jianguo Yao (Shanghai Jiao Tong University, P.R. China)	270-
<i>Self-Sustaining Wireless Neighborhood Area Network Design for Smart Grid</i>	
Feng Ye (University of Nebraska-Lincoln, USA), Yi Qian (University of Nebraska-Lincoln, USA), Rose Qingyang Hu (Utah State University, USA)	27%5
<i>Data Offloading with Renewable Energy Powered Base Station Connected to a Microgrid</i>	
Yeow-Khiang Chia (Institute for Infocomm Research & Agency for Science, Technology and Research, Singapore), Chin Keong Ho (Institute for Infocomm Research, A*STAR, Singapore), Sumei Sun (Institute for Infocomm Research, Singapore)	272%

Green Cellular Networks

<i>Energy Efficient Smart Metering for Green Smart Grid Communication</i>	
Samaresh Bera (Indian Institute of Technology Kharagpur, India), Sudip Misra (Indian Institute of Technology-Kharagpur, India), Mohammad S. Obaidat (Monmouth University, USA)	2(**

GC14 SAC Human Centric Computing: Globecom 2014 - Symposium on Selected Areas in Communications: GC14 SAC Human Centric Computing

Selected Areas in Communications Interactive Presentations I: (eHealth) (Human Centric Computing)

A novel location prediction based on activity patterns

Yang Liu (Huazhong University of Science and Technology, P.R. China), Chen Yu (Huazhong University of Science and Technology & School of Computer Science and Technology, P.R. China), Dezhong Yao (Huazhong University of Science and Technology, P.R. China), Hai Jin (Huazhong University of Science and Technology, P.R. China), Hanhua Chen (HUST, P.R. China), Qiang Ding (Huawei Technologies Co., P.R. China) B#5

Cloud Augmentative and Alternative Communication for People with Complex Communication Needs

Rosanna Yuen-Yan Chan (The Chinese University of Hong Kong, Hong Kong) 27&+

Answer Inference for Crowdsourcing based Scoring

Kaikai Sheng (Shanghai Jiao Tong University, P.R. China), Zhicheng Gu (Shanghai Jiao Tong University, P.R. China), Xueyu Mao (Shanghai Jiao Tong University, P.R. China), Xiaohua Tian (Shanghai Jiao Tong University, P.R. China), Xiaoying Gan (Shanghai Jiao Tong University, P.R. China), Xinbing Wang (Shanghai Jiaotong University, P.R. China) 27' '

State-machine driven Opportunistic Sensing by Mobile Devices

Radhika Loomba (TSSG, Waterford Institute of Technology, Ireland), Lei Shi (Waterford Institute of Technology, Ireland), Brendan Jennings (Waterford Institute of Technology, Ireland) 27' -

GC14 SAC Internet of Things: Globecom 2014 - Symposium on Selected Areas in Communications: GC14 SAC Internet of Things

(IoT) Extending the Internet of Things through Mobile Wireless Networks, RFID, and Cloud Computing

A Mechanism for Uplink Packet Scheduler in LTE Network in the Context of Machine-to-Machine Communication

Adyson Magalhães Maia (Federal University of Ceará, Brazil), Dario Vieira (EFREI, France), Miguel Franklin de Castro (Federal University of Ceará, Brazil), Yacine Ghamri-Doudane (University of la Rochelle, France) &+ + *

(IoT) Managing and Building New Internet of Things Applications

DeepSense: A Novel Learning Mechanism for Traffic Prediction with Taxi GPS Traces

Xiaoguang Niu (Wuhan University, P.R. China), Ying Zhu (Wuhan University, P.R. China), Xining Zhang (Wuhan University, P.R. China) 2+ (5

Service-Oriented Middleware for the Mobile Internet of Things: A Scalable Solution

Sara Hachem (University of California Berkeley, France), Animesh Pathak (Inria Paris-Rocquencourt, France), Valerie Issarny (INRIA, France) B#5

(IoT) Extending the Internet of Things through Mobile Wireless Networks, RFID, and Cloud Computing

DTNs BACK: DTNs Broadcasting ACK

Patrice Raveneau (Université de Toulouse - IRIT - ENSEEIHT, France), Riadh Dhaou (IRIT/ENSEEIHT, University of Toulouse, France), Emmanuel Chaput (Irit-Enseeiht, France), André-Luc Beylot (University of Toulouse, France) &+, -

(IoT) Managing and Building New Internet of Things Applications

Privacy-Preserving Aggregation for Participatory Sensing with Efficient Group Management

Jianwei Chen (Beijing University of Posts and Telecommunications, P.R. China), Huadong Ma (Beijing University of Posts and Telecommunications, P.R. China) &+) +

Distinguishing Uncertain Objects with Multiple features for Crowdsensing

Bin Liu (UESTC & HUAWEI, P.R. China), Chao Song (University of Electronic Science and Technology of China, P.R. China), Ming Liu (University of Electronic Science and Technology of China, P.R. China), Nianbo Liu (University of Electronic Science and Technology of China, P.R. China) 2+) %

(IoT) Extending the Internet of Things through Mobile Wireless Networks, RFID, and Cloud Computing

A CoAP-compliant solution for efficient inclusion of RFID in the Internet of Things

Ivan Farris (University Mediterranea of Reggio Calabria, Italy), Antonio Iera (University Mediterranea of Reggio Calabria, Italy), Antonella Molinaro (University Mediterranea of Reggio Calabria, Italy), Sara Pizzi (University "Mediterranea" of Reggio Calabria, Italy) &+-)

(IoT) Managing and Building New Internet of Things Applications

A case for ICN usage in IoT environments

José Quevedo (Instituto de Telecomunicações & Universidade de Aveiro, Portugal), Daniel Corujo (Instituto de Telecomunicações Aveiro & Universidade de Aveiro, Portugal), Rui L Aguiar (University of Aveiro & Instituto de Telecomunicações, Portugal) &+ + \$

(IoT) Extending the Internet of Things through Mobile Wireless Networks, RFID, and Cloud Computing

Google Cloud Messaging (GCM): An Evaluation

Yavuz Selim Yilmaz (University at Buffalo, SUNY, USA), Bahadır I Aydin (University at Buffalo, SUNY, USA), Murat Demirbas (University at Buffalo, SUNY, USA) &, \$ +

Transient Clouds: Assignment and Collaborative Execution of Tasks on Mobile Devices

Terry Penner (LeTourneau University, USA), Alison Johnson (Texas State University, USA), Brandon Van Slyke (Texas State University, USA), Mina Guirguis (Texas State University, USA), Qijun Gu (Texas State University, USA) &, \$ %

A User-Satisfaction Based Offloading Technique for Smart City Applications

Daniela Mazza (University of Bologna, Italy), Daniele Tarchi (University of Bologna, Italy), Giovanni Emanuele Corazza (University of Bologna, Italy) &+, '

(IoT) Managing and Building New Internet of Things Applications

ADHT: Agent-based DHT Architecture for Constrained Devices

Erkki Harjula (University of Oulu, Finland), Teemu Leppänen (University of Oulu & Intelligent Systems Group, Finland), Timo Ojala (University of Oulu, Finland), Mika Ylianttila (University of Oulu, Finland) &+ * '

GC14 SAC Nanotechnology: Globecom 2014 - Symposium on Selected Areas in Communications: GC14 SAC Nanotechnology

Selected Areas in Communications Interactive Presentations III: (Nanotechnology) (Power Line Communication)

Bounds on Distance Estimation via Diffusive Molecular Communication

Adam Noel (University of British Columbia, Canada), Karen C Cheung (University of British Columbia, Canada), Robert Schober (University of British Columbia, Canada) 28%

Analysis and Design of Two-Hop Diffusion-Based Molecular Communication Networks

Arman Ahmadzadeh (University of Erlangen-Nuremberg, Germany), Adam Noel (University of British Columbia, Canada), Robert Schober (University of British Columbia, Canada) 28&\$

Diffusion-Controlled Enzyme-Catalyzed Molecular Communication System for Targeted Drug Delivery

Uche Kennedy Okonkwo (University of Pretoria, South Africa) 28&*

GC14 SAC Satellite & Space Communication: Globecom 2014 - Symposium on Selected Areas in Communications: GC14 SAC Satellite & Space Communication

(Satellite and Space Communications): Satellite Communications

An Energy Detector based Radio Environment Mapping Technique for Cognitive Satellite Systems

Vincenzo Icolari (University of Bologna, Italy), Daniele Tarchi (University of Bologna, Italy), Alessandro Vanelli-Coralli (University of Bologna, Italy), Matteo Vincenzi (University of Bologna, Italy) &, - &

Modeling Air-to-Ground Path Loss for Low Altitude Platforms in Urban Environments

Akram Al-Hourani (RMIT University, Australia), Sithamparanathan Kandeepan (RMIT University, Australia), Abbas Jamalipour (University of Sydney, Australia) &, - ,

(Satellite and Space Communications) Satellite Networking

On Routing for Extending Satellite Service Life in LEO Satellite Networks

Mohammed Hussein (University of Toulouse, France), Gentian Jakllari (University of Toulouse, France), Beatrice Paillassa (ENSEEIH, France) &, ' &

On the delay distribution and maximum message length in DTNs with long propagation delays

Dmitri Moltchanov (Tampere University of Technology, Finland), Yevgeni Koucheryav (Tampere University of Technology, Finland) 2, ((

Reducing Latency in Satellite Emergency Networks through a Cooperative Transmission Control

Maurizio Casoni (University of Modena and Reggio Emilia, Italy), Carlo Augusto Grazia (University of Modena and Reggio Emilia, Italy), Martin Klapetz (University of Modena and Reggio Emilia, Italy), Natale Patriciello (University of Modena and Reggio Emilia, Italy) 2,) \$

Optimized GSE Packet Scheduling over DVB-S2

Jean-Baptiste Dupé (Université de Toulouse & TESA, France), Emmanuel Chaput (Irit-Enseeiht, France), Cédric Baudoin (Thales Alenia Space, France), Caroline Bes (CNES, France), Arnaud Deramecourt (Centre National d'Etudes Spatial, France), André-Luc Beylot (University of Toulouse, France) 2,) *

(Satellite and Space Communications): Satellite Communications

Performance Evaluation of Transmission System for 8K Super Hi-Vision Satellite Broadcasting

Yoichi Suzuki (NHK Science & Technology Research Laboratories, Japan), Kenichi Tsuchida (NHK Science & Technology Research Laboratories, Japan), Yoshifumi Matsusaki (NHK Science & Technology Research Laboratories, Japan), Akinori Hashimoto (NHK Science and Technical Research Laboratories, Japan), Shoji Tanaka (NHK Science and Technical Research Laboratories, Japan), Tetsuomi Ikeda (Japan Broadcasting Corporation, Japan), Naoji Okumura (Association of Radio Industries and Businesses, Japan) &, *

(Satellite and Space Communications) Satellite Networking

Performance Analysis of Routing Algorithms in Satellite Network Under Node Failure Scenarios

Ziluan Liu (Beijing University of Posts and Telecommunications, P.R. China), Jiangxue Han (Beijing University of Posts and Telecommunications, P.R. China), Ying Wang (Beijing University of Posts and Telecommunications & Beijing University of Posts and Telecommunications, P.R. China), Xin Li (Beijing University of Posts and Telecommunications, P.R. China), Shanzhi Chen (Beijing University of Posts and Telecommunications, P.R. China) 2, 3,

(Satellite and Space Communications): Satellite Communications

Enabling CP Terminals for Accessing LP Satellite Transponders via Wavefront Multiplexing Techniques

Donald Chang (Spatial Digital Systems, USA), Joe Lee (SDS, Inc., USA), Tzer-Hso Lin (SDS, USA) 2, *,

Distortion Modeling and Analysis for Multilevel Coded APSK with Memoryless Nonlinearity

Daiki Yoda (Yokohama National University, Japan), Hideki Ochiai (Yokohama National University, Japan) 2, +(

(Satellite and Space Communications) Satellite Networking

An Efficient Utilization of Intermittent Satellite-to-Ground Links by Using Mass Storage Device Embedded in Satellites

Kazuma Kaneko (Tohoku University, Japan), Yuichi Kawamoto (Tohoku University, Japan), Hiroki Nishiyama (Tohoku University, Japan), Nei Kato (Tohoku University, Japan), Morio Toyoshima (National Institute of Information and Communications Technology, Japan) 2, * &

(Satellite and Space Communications): Satellite Communications

Cooperative Transmission for Geostationary Orbiting Satellite Collocation System

Shengyue Dou (Beihang University, P.R. China), Lin Bai (Beihang University, P.R. China), Jindong Xie (Beihang University, P.R. China), Zhenyu Xiao (Beihang University, P.R. China) 2, , \$

GC14 SAC Social Networks: Globecom 2014 - Symposium on Selected Areas in Communications: GC14 SAC Social Networks

(Social Networks): Community Enabled Networking

Evolutionary Social Information Diffusion Analysis

Chunxiao Jiang (Tsinghua University, Beijing, P.R. China), Yan Chen (University of Maryland, College Park, USA), K. J. Ray Liu (University of Maryland, USA) 29%%

Community Classification in Decentralized Social Networks Using Local Topological Information

Pili Hu (The Chinese University of Hong Kong, Hong Kong), Wing Cheong Lau (The Chinese University of Hong Kong, Hong Kong) 29&-

A Neighborhood Vector Propagation Algorithm for Community Detection

Xiao Liang (Shanghai Jiao Tong University, P.R. China), Junhua Tang (Shanghai Jiao Tong University, P.R. China), Li Pan (Shanghai Jiao Tong University, P.R. China) 29&'

(Social Networks): Privacy, Security and Networking

EMVideo: User Collaboration Framework for Generating Multimedia Contents in Social Networks

Suk Kyu Lee (Korea University, Korea), Seungho Yoo (Korea University, Korea), Eugene Kim (Korea University, Korea), Hyunsoon Kim (Korea University, Korea), Kangho Kim (Korea University, Korea), Hwangnam Kim (Korea University, Korea) 29(%

(Social Networks): Community Enabled Networking

Community evolutions in social interactions

Zhenyu Wu (Beihang University, P.R. China), Yu Liu (Beihang University, P.R. China), Jianwei Niu (Beihang University, P.R. China), Joel J. P. C. Rodrigues (Instituto de Telecomunicações, University of Beira Interior, Portugal) 2988

(Social Networks): Privacy, Security and Networking

An Evaluation of User Importance When Integrating Social Networks and Mobile Cloud Computing

Chunsheng Zhu (The University of British Columbia, Canada), Hai Wang (Pohang University of Science and Technology, Korea), Victor CM Leung (The University of British Columbia, Canada), Lei Shu (Guangdong University of Petrochemical Technology, P.R. China), Laurence T. Yang (St. Francis Xavier University, Canada) 29')

Twitter Structure as a Composition of Two Distinct Networks

Meng Tong (University at Buffalo, USA), Ameya M Sanzgiri (University at Buffalo, USA), Dimitrios Koutsonikolas (University at Buffalo, SUNY, USA), Shambhu Upadhyaya (University at Buffalo, USA) B#5

k-hop Centrality Metric for Identifying Influential Spreaders in Dynamic Large-scale Social Networks

Jianwei Niu (Beihang University, P.R. China), Jinyang Fan (Beihang University, P.R. China), Lei Wang (Beihang University, P.R. China), Milica Stojmenovic (Swinburne University of Technology, Australia) &-) (

Distributed Discovery of User Handles with Privacy

Thomas Paul (TU Darmstadt, Germany), Marius Hornung (TU Darmstadt, Germany), Thorsten Strufe (TU Dresden, Germany) &- (+

(Social Networks): Community Enabled Networking

Trustworthy Crowdsourcing via Mobile Social Networks

Burak Kantarci (Clarkson University, USA), Hussein T Mouftah (University of Ottawa, Canada) &- \$)

A Mutual-Community-Aware Routing Protocol for Mobile Social Networks

Pitiphol Pholpabu (University of Southampton, United Kingdom), Lie-Liang Yang (University of Southampton, United Kingdom) &- %+

(Social Networks): Privacy, Security and Networking

Privacy-Preserving Attribute-Based Ring Signcryption for Health Social Network

Xiaoyan Zhu (Xidian University, P.R. China), Shuang Shuang Shi (Xidian University, P.R. China), Jian Sun (Xi'an Communications Institute, P.R. China), Shunrong Jiang (Xidian University, P.R. China) B #5

GC14 SAC/PLC: Globecom 2014 - Symposium on Selected Areas in Communications: Power Line Communications

Selected Areas in Communications Interactive Presentations III: (Nanotechnology) (Power Line Communication)

Throughput Optimization Based on Access Impedance of PLC Modems with Limited Power Consumption

George Hallak (University of Applied Sciences Ruhrwest, Germany), Gerd Bumiller (Hochschule Ruhr West & University of Applied Sciences, Germany) &- * \$

Power Line Communications

Narrowband-PLC/Wireless Diversity for Smart Grid Communications

Mostafa Sayed (University of Texas at Dallas, USA), Naofal Al-Dhahir (University of Texas at Dallas, USA) &- **

Performance of Wireless/Power Line Media Diversity in the Office Environment

Stephen W. Lai (University of Calgary, Canada), Nazafarin Shabehpour (University of British Columbia, Canada), Geoffrey G. Messier (University of Calgary, Canada), Lutz Lampe (University of British Columbia, Canada) &- +&

Threshold and Scaling Factor Optimization for Enhancing Impulsive Noise Cancellation in PLC Systems

Khaled M. Rabie (University of Manchester, United Kingdom), Emad Alsusa (Manchester University, United Kingdom) &- ++

Joint Robust Decoding and Parameter Estimation for Convolutionally Coded Systems Impaired by Unknown Impulse Noise

Der-Feng Tseng (National Taiwan University of Science and Technology, Taiwan) &- , '

Compressive Sensing Based Narrowband Interference Cancellation for Power Line Communication Systems

Sicong Liu (Tsinghua University & Research Institute of Information Technology, Tsinghua National Laboratory of Information Science and Technology, P.R. China), Fang Yang (Tsinghua University, P.R. China), Chao Zhang (Tsinghua University, P.R. China), Jian Song (Tsinghua University, P.R. China) &- , -

<i>Improved Spectrum Agility in Narrow-Band PLC with Cyclic Block FMT Modulation</i> Mauro Girotto (University of Udine, Italy), Andrea M Tonello (University of Udine & WiTiKee srl, Italy)	&- -)
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GC14 SPC: Globecom 2014 - Signal Processing for Communications Symposium

Signal Processing for Channel Estimation

<i>Robust Channel Estimation Strategy for Two-Way Multi-Antenna Relay Networks with Asynchronous Transmission</i> Xinqian Xie (Beijing University of Posts and Telecommunications, P.R. China), Mugen Peng (Beijing University of posts & Telecommunications, P.R. China), Zhongyuan Zhao (Beijing University of Posts and Telecommunications, P.R. China)	30\$%
<i>Two Channel Estimators for CP-OQAM-OFDM Systems</i> DeJin Kong (Huazhong University of Science and Technology, P.R. China), Xiang-Gen Xia (University of Delaware, USA), Tao Jiang (Huazhong University of Science and Technology, P.R. China), Xiqi Gao (Southeast University, P.R. China)	30\$+
<i>Structured Sparse Approximation Via Generalized Regularizers: with application to V2V Channel Estimation</i> Sajjad Beygi (University of Southern California, USA), Erik G Ström (Chalmers University of Technology, Sweden), Urbashi Mitra (University of Southern California, USA)	30%
<i>Blind Channel Estimation Assisted Coherent Demodulation of DPSK Modulated OFDM Systems</i> Semih Serbetli (NXP Semiconductors, The Netherlands)	30%9
<i>Robust Pilot Detection Techniques for Channel Estimation and Symbol Detection in OFDM Systems</i> Hongting Zhang (Louisiana State University, USA), Hsiao-Chun Wu (Louisiana State University, USA), Hong Jiang (Bell Labs & Alcatel-Lucent, USA), Scott CH Huang (National Tsing Hua University, Taiwan)	302)
<i>Artificial Noise Design for Discriminatory Channel Estimation in Wireless MIMO Systems</i> Ta-Yuan Liu (National Tsing Hua University, Taiwan), Yu-Ching Chen (National Tsing Hua University, Taiwan), Yao-Win Peter Hong (National Tsing Hua University, Taiwan)	30' &

Signal Processing for Cognitive Radio I

<i>Second-Order Statistic-Based Detection of Alamouti-Coded OFDM Signals for Cognitive Radio</i> Yahia Eldemerdash (Memorial University of Newfoundland, Canada), Octavia A. Dobre (Memorial University of Newfoundland, Canada)	3\$' ,
<i>Circular sparse rulers based on co-prime sampling for compressive power spectrum estimation</i> Nuria González-Prelcic (Universidad de Vigo, Spain), Elena Domínguez-Jiménez (Universidad Politecnica de Madrid, Spain)	3\$((
<i>Energy Detection based Spectrum Sensing In The Presence of Time-Frequency Double Selective Fading Propagations</i> Bin Li (Beijing University of Posts and Telecommunications & Key Lab of Universal Wireless Communications, MOE, P.R. China), Chenglin Zhao (Beijing University of Posts and Telecommunications, P.R. China), Mengwei Sun (BUPT, P.R. China), Arumugam Nallanathan (King's College London, United Kingdom)	B#5
<i>Sum-Rate Maximization for Spectrum-Sharing Cognitive Multiple Access Channels without Successive Interference Cancellation</i> Xin Kang (Institute for Infocomm Research, Singapore), Chong Hon Fah (I2R, Singapore), Yeow-Khiang Chia (Institute for Infocomm Research & Agency for Science, Technology and Research, Singapore), Sumei Sun (Institute for Infocomm Research, Singapore)	3\$) +

Detection of Primary User's Signal in Cognitive Radio Networks: Angle of Arrival Based Approach

- Yanxiao Zhao (South Dakota School of Mines and Technology, USA), Jun Huang (Chongqing University of Posts and Telecomm, P.R. China), Wei Wang (San Diego State University, USA), Rafida Zaman (South Dakota School of Mines and Technology, USA) 3\$* &
- Listen-and-Talk: Full-duplex Cognitive Radio Networks*
- Yun Liao (Peking University, P.R. China), Tianyu Wang (Peking University, P.R. China), Lingyang Song (Peking University, P.R. China), Zhu Han (University of Houston, USA) 3\$*,

Signal Processing for Cognitive Radio II

Secured Cooperative Cognitive Radio Networks with Relay Selection

- Trung Q. Duong (Queen's University Belfast, United Kingdom), Tran Trung Duy (Posts and Telecommunications Institute of Technology, Vietnam), Maged Elkaslan (Queen Mary, University of London, United Kingdom), Nghi H Tran (University of Akron, USA), Octavia A. Dobre (Memorial University of Newfoundland, Canada) 3\$+(

Cooperative Bargaining Resource Allocation for Cognitive Small Cell Networks

- Haijun Zhang (The University of British Columbia, Canada), Chunxiao Jiang (Tsinghua University, Beijing, P.R. China), Norman Beaulieu (Beijing University of Posts and Telecommunication, Canada), Suqin He (Beijing University of Chemical Technology, P.R. China), Xiaoli Chu (University of Sheffield, United Kingdom) 3\$, \$

Rate-Interference Tradeoff in OFDM-based Cognitive Radio Networks

- Ebrahim Bedeer (University of British Columbia, Canada), Octavia A. Dobre (Memorial University of Newfoundland, Canada), Mohamed Hossam Ahmed (Memorial University, Canada), Kareem E. Baddour (Communications Research Centre, Canada) 3\$, 6

Energy-Efficiency and Spectrum-Efficiency trade off in OFDM-based cognitive radio systems

- Weijia Shi (Nanjing University, P.R. China), Shaowei Wang (Nanjing University, P.R. China), Dageng Chen (Huawei Technologies Co., Ltd., P.R. China) 3\$9&

Novel Hilbert Spectrum-based Specific Emitter Identification for Single-hop and Relaying Scenarios

- Jingwen Zhang (Beijing Jiaotong University, P.R. China), Fanggang Wang (Beijing Jiaotong University, P.R. China), Zhangdui Zhong (Beijing Jiaotong University, P.R. China), Octavia A. Dobre (Memorial University of Newfoundland, Canada) B#5

Resource Management in Cognitive Opportunistic Access Femtocells with Imperfect Spectrum Sensing

- Haijun Zhang (The University of British Columbia, Canada), Chunxiao Jiang (Tsinghua University, Beijing, P.R. China), Xiaotao Mao (Beijing University of Chemical Technology, P.R. China), Arumugam Nallanathan (King's College London, United Kingdom) ' \$-,

Signal Processing for Compressive Sensing & Sparse Signals

Decentralized Bayesian Learning of Jointly Sparse Signals

- Saurabh Khanna (Indian Institute of Science, India), Chandra R Murthy (Indian Institute of Science, India) 31\$'

Turbo Analog Error Correcting Codes Based on Analog CRC

- Avi Zanko (Bar-Ilan University, Israel), Amir Leshem (Bar-Ilan University, Israel), Ephraim Zehavi (Bar-Ilan University, Israel) 31\$9

A Low-Complexity Bayesian Approach to Large-Scale Sparse Image Reconstruction with Structured Constraints

- Shaoyang Li (Tsinghua University, P.R. China), Xiaoming Tao (Tsinghua University, P.R. China), Jianhua Lu (Tsinghua University, P.R. China) 31%)

Robust 1-bit Compressive Sensing Against Sign Flips

- Xi Fu (Tsinghua University, P.R. China), Fang-Ming Han (Tsinghua University, P.R. China), Hongxing Zou (Tsinghua University, P.R. China) 3%2%

<i>Opportunistic Relay Selection in Multicast Relay Networks using Compressive Sensing</i> Khalil Elkhail (King Abdullah University of Science and Technology, Tunisia), Mohammed Eltayeb (The University of Akron & King Fahd University of Petroleum & Minerals, USA), Hussain J. Shibli (King Abdullah University of Science and Technology, Saudi Arabia), Hamid Reza Bahrami (The University of Akron, USA), Tareq Y. Al-Naffouri (King Abdullah University of Science and Technology, USA)	3%2*
<i>Cyclic Spectrum Reconstruction from Sub-Nyquist Samples</i> Deborah Cohen (Technion - Israel Institute of Technology, Israel), Yonina C. Eldar (Technion-Israel Institute of Technology, Israel)	31' &

Signal Processing for Designs Under Power & Cost Constraints

<i>Feasibility of Using Discriminate Pricing Schemes for Energy Trading in Smart Grid</i> Wayes Tushar (Singapore University of Technology and Design, Singapore), Chau Yuen (Singapore University of Technology and Design, Singapore), Bo Chai (Zhejiang University, P.R. China), David B Smith (National ICT Australia, Australia), H. Vincent Poor (Princeton University, USA)	3% ,
<i>Harvest-and-Jam: Improving Security for Wireless Energy Harvesting Cooperative Networks</i> Hong Xing (King's College London, United Kingdom), Zheng Chu (Newcastle University, United Kingdom), Zhiguo Ding (Lancaster University, United Kingdom), Arumugam Nallanathan (King's College London, United Kingdom)	3%()
<i>Low-Power Dual Quantization-Domain Decoding for LDPC Codes</i> Shadi Abu-Surra (Samsung Research America - Dallas, USA), Eran Pisek (Samsung Research America - Dallas, USA), Thomas Henige (Samsung Telecommunications America, USA), Sridhar Rajagopal (Samsung Electronics & Samsung Research America - Dallas, USA)	3% %
<i>Optimal Time Allocation for Dynamic-TDMA-based Wireless Powered Communication Networks</i> Xin Kang (Institute for Infocomm Research, Singapore), Chin Keong Ho (Institute for Infocomm Research, A*STAR, Singapore), Sumei Sun (Institute for Infocomm Research, Singapore)	3% +
<i>Logarithmic Quantization Scheme for Reduced Hardware Cost and Improved Error Floor in Non-Binary LDPC Decoders</i> Yuta Toriyama (University of California, Los Angeles, USA), Behzad Amiri (UCLA, USA), Lara Dolecek (UCLA, USA), Dejan Markovic (University of California, Los Angeles, USA)	3%* &
<i>Energy Harvesting for Self-sustainable OFDMA Communications</i> Marco Maso (Mathematical and Algorithmic Sciences Lab, Huawei France Research Center & Singapore University of Technology and Design, France), Subhash Lakshminarayana (Singapore University of Technology and Design (SUTD), Singapore), Tony Q. S. Quek (Singapore University of Technology and Design, Singapore), H. Vincent Poor (Princeton University, USA)	3%* ,

Signal Processing for Distributed, Cooperative & Relayed Communications

<i>Distributed Bayesian Hybrid Power State Estimation with PMU Synchronization Errors</i> Jian Du (University of Macau, Hong Kong), Shaodan Ma (University of Macau, P.R. China), Yik-Chung Wu (The University of Hong Kong, Hong Kong), H. Vincent Poor (Princeton University, USA)	3%+ (
<i>Secure Multiuser Communications in Multiple Decode-and-Forward Relay Networks with Direct Links</i> Xianfu Lei (Utah State University, USA), Lisheng Fan (Shantou University, P.R. China), Rose Qingyang Hu (Utah State University, USA), Diomidis S. Michalopoulos (University of Erlangen-Nuremberg & Institute for Digital Communications, Germany), Pingzhi Fan (Southwest Jiaotong University, P.R. China)	3% \$
<i>Differential Distributed Space-Time Coding with Imperfect Synchronization</i> M R. Avendi (University of California, Irvine, USA), Sina Poorkasmaei (University of California, Irvine, USA), Hamid Jafarkhani (University of California, Irvine, USA)	3% *

<i>Compress-and-Forward Receiver Cooperation for Virtual MIMO with Finite-Alphabet Modulation</i> Hongliang Mao (Tsinghua University, P.R. China), Wei Feng (Tsinghua University, P.R. China), Ning Ge (Tsinghua University, P.R. China)	3% &
<i>Individual Channel Tracking for One-Way Relay Networks with Particle Filtering</i> Hong Hu (Tsinghua University, P.R. China), Shun Zhang (Xidian University, P.R. China), Hongyan Li (Xidian University, P.R. China)	3% ,
<i>Decentralized Nonlinear Precoding Algorithm for Multi-cell Coordinated Systems</i> Zhirui Hu (Beijing University of Post and Telecommunication, P.R. China), Chunyan Feng (Beijing University of Posts and Telecommunications, P.R. China), Tiankui Zhang (Beijing University of Posts and Telecommunications, P.R. China), Qiubin Gao (China Academy of Telecommunications Technology (CATT), P.R. China), Shaohui Sun (China Academy of Telecommunications Technology (CATT), P.R. China)	3&\$'

Signal Processing for Estimation & Detection

<i>Widely linear sphere decoding by exploiting the hidden properties of PSK signals</i> Yuehua Ding (South China University of Technology, P.R. China), Nanxi LI (South China Normal University, P.R. China), Yide Wang (IREENA, Polytech'Nantes, university of Nantes, France), Suili Feng (South China University of Technology, P.R. China)	32\$9
<i>Interacting Multiple Model Particle Filtering Using New Particle Resampling Algorithm</i> Dah-Chung Chang (National Central University, Taiwan), Meng-Wei Fang (NCU, Taiwan)	32%)
<i>Adaptive Cancellation of Self-Interference in Full-Duplex Wireless with Transmitter IQ Imbalance</i> Manabu Sakai (Osaka Prefecture University, Japan), Hai Lin (Osaka Prefecture University, Japan), Katsumi Yamashita (Osaka Prefecture University, Japan)	3&&\$
<i>Soft-iterative Magnitude Demodulation</i> Marco A. C. Gomes (University of Coimbra, Portugal), Vitor Silva (Institute of Telecommunications, Portugal), Francisco Cercas (ISCTE-IUL & Instituto de Telecomunicações, Portugal), Martin Tomlinson (University of Plymouth, United Kingdom)	3&&)
<i>An Enhanced Fixed-Complexity LLL Algorithm for MIMO Detection</i> Qingsong Wen (Georgia Institute of Technology, USA), Qi Zhou (Georgia Institute of Technology, USA), Xiaoli Ma (Georgia Institute of Technology, USA)	3&' %
<i>Maximum asymptotic efficiency equalizer with decision feedback</i> Weiwei Zhou (George Mason University, USA), Jill Nelson (George Mason University, USA)	3&' +

Signal Processing for OFDM, OFDMA & Multi-Carrier Communications

<i>Low Complexity Precoder and Equalizer for DMT Systems with Insufficient Cyclic Prefix</i> Igor Freire (Federal University of Pará, Brazil), Chenguang Lu (Ericsson Research, Sweden), Per-Erik Eriksson (Ericsson Research, Sweden), Aldebaro Klautau (Universidade Federal do Para, Brazil)	3&('
<i>Interference Suppression Using EM Algorithm in OFDM Transmissions</i> Naotoshi Yoda (Keio University, Japan), Tomoaki Ohtsuki (Keio University, Japan), Jun Mashino (NTT, Japan), Takatoshi Sugiyama (NTT, Japan)	3&(-
<i>Maximum A-Posteriori Based Modulation Detection in Adaptive OFDM Systems</i> Yun Chen (Fraunhofer Institute for Embedded Systems and Communication Technologies ESK, Germany), Barbara Staehle (Fraunhofer ESK, Germany), Ahmad Saad (Fraunhofer Institute for Embedded Systems and Communication Technologies ESK, Germany), Mike Heidrich (Fraunhofer Institute for Communication Systems (ESK), Germany)	B#5
<i>Boosting Factor Estimation for LTE Control Channel</i> Dongwoon Bai (Samsung US R&D Center, USA), Jungwon Lee (Samsung US R&D Center, USA), Inyup Kang (Samsung Electronics, USA)	3&))

Iterative Detection for Unique Word OFDM

Werner Haselmayr (Johannes Kepler University Linz, Austria), Christian Hofbauer (Johannes Kepler University Linz, Austria), Bernhard Etzlinger (Johannes Kepler University Linz, Austria), Andreas Springer (Johannes Kepler University Linz, Austria), Mario Huemer (Johannes Kepler University Linz, Austria) 3&* %

OFDM-based analog multiband: a scalable design for indoor mm-wave wireless communication

Hossein Roufarshbaf (University of California, Santa Barbara, USA), Upamanyu Madhow (University of California, Santa Barbara, USA), Sridhar Rajagopal (Samsung Electronics & Samsung Research America - Dallas, USA) ' &* +

Signal Processing for Massive MIMO

Multiuser Detection in Massive Spatial Modulation (SM-) MIMO with Low-Resolution ADCs

Wang Shengchu (Tsinghua University, P.R. China), Yunzhou Li (Tsinghua University, P.R. China), Jing Wang (Tsinghua University, P.R. China), Xibin Xu (Tsinghua University, P.R. China) ' &+'

Uplink Rate Analysis of Multicell Massive MIMO Systems in Ricean Fading

Qi Zhang (Nanjing University of Posts and Telecommunications, P.R. China), Shi Jin (Southeast University, P.R. China), Yongming Huang (Southeast University, P.R. China), Hongbo Zhu (Nanjing University of Posts and Telecommunications, P.R. China) 3&+ -

Pilot Decontamination Through Pilot Sequence Hopping in Massive MIMO Systems

Jesper H Sørensen (Aalborg University, Denmark), Elisabeth de Carvalho (Aalborg University, Denmark) 3&,)

Matrix Inversion-Less Signal Detection Using SOR Method for Uplink Large-Scale MIMO Systems

Xinyu Gao (Tsinghua University, P.R. China), Linglong Dai (Tsinghua University, P.R. China), Yuting Hu (Tsinghua University, P.R. China), Zhongxu Wang (Tsinghua University, P.R. China), Zhaocheng Wang (Tsinghua University, P.R. China) 3&- %

Multiuser Massive MIMO Uplink Performance with Mutual Coupling Effects

Ran Zi (Huazhong University of Science and Technology, P.R. China), Ge Xiaohu (Huazhong University of Science & Technology, P.R. China), Haichao Wang (Huazhong University of Science and Technology, P.R. China), Jing Zhang (HUST, P.R. China), Chengxiang Wang (Heriot-Watt University, United Kingdom) 3&- *

Antenna Group Selection based User Scheduling for Massive MIMO Systems

Byungju Lee (Seoul National University, Korea), Byonghyo Shim (Seoul National University, Korea), Lua Ngo (Korea University, Korea) 33\$&

Signal Processing for Multi-Antenna Systems 2

AMMSE Optimization for Multiuser MISO Systems with Imperfect CSIT and Perfect CSIR

Hamdi Joudeh (Imperial College London, United Kingdom), Bruno Clerckx (Imperial College London & Korea University, United Kingdom) 33\$,

Low-Complexity Transceiver Design and Antenna Subset Selection for Cooperative Half- and Full-Duplex Relaying Systems

Xiaochen Xia (College of Communication Engineering, PLA University of Science and Technology, P.R. China), Kui Xu (College of Communications Engineering, PLAUST, P.R. China), Dongmei Zhang (PLA University of Science and Technology, P.R. China), Youyun Xu (PLA University of Science & Technology & Shanghai Jiaotong University, P.R. China) 3' %

Enhanced MIMOME Wiretap Channel via Adopting Full-Duplex MIMO Radios

Yongkai Zhou (Shanghai Jiaotong University, P.R. China), Yan Zhu (University of Shanghai Jiaotong, P.R. China), Zhi Xue (Shanghai Jiao Tong University, P.R. China) 3' &\$

Exploiting Spatial Sparsity for Estimating Channels of Hybrid MIMO Systems in Millimeter Wave Communications

Junho Lee (KAIST, Korea), Gye-Tae Gil (KAIST, Korea), Yong H. Lee (KAIST, Korea) 3' &*

Joint Power Allocation and Mapping Strategy Design for MIMO Two-Way Relay Channels with Finite-Alphabet Inputs

Hao Feng (Shanghai Jiao Tong University, P.R. China), Zhiyong Chen (Shanghai Jiao Tong University, P.R. China), Hui Liu (Shanghai JiaoTong University, P.R. China) 3' ' &

Downlink Blind Interference Alignment for Cellular Networks

Yi Lu (The University of New South Wales, USA), Wei Zhang (The University of New South Wales, Australia) 3' ' +

Signal Processing for Multi-Antenna Systems I

Selective Vector Perturbation for Low-Power Small Cell MISO Downlinks

Christos Masouros (University College London, United Kingdom), Mathini Sellathurai (Heriot-Watt University, United Kingdom), Tharmalingam Ratnarajah (The University of Edinburgh, United Kingdom) 3' ('

Limited Feedback Vector Perturbation Precoding By MinMax Optimization

Christos Masouros (University College London, United Kingdom), Mathini Sellathurai (Heriot-Watt University, United Kingdom), Tharmalingam Ratnarajah (The University of Edinburgh, United Kingdom) 3' (-

Sum Rate Maximizing Multigroup Multicast Beamforming under Per-antenna Power Constraints

Dimitrios Christopoulos (University of Luxembourg & SnT, Luxembourg), Symeon Chatzinotas (University of Luxembourg, Luxembourg), Björn Ottersten (University of Luxembourg, Luxembourg) 3') (

Min-Max Robust Transmit Beamforming for Power Efficient Quality of Service Guarantee

Saba Nasser (King's COLLEGE LONDON, United Kingdom), Mohammad Reza Nakhai (King's College London, United Kingdom) 3' * \$

Sum-Rate Improved Interference Alignment in Wireless MIMO Interference Networks

Hongchao Chen (Institute of Computing Technology, P.R. China), Yiqing Zhou (Chinese Academy of Science, P.R. China), Lin Tian (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China), Zhiguo Liu (ICT/CAS, P.R. China), Yanan Ma (ICT/CAS, P.R. China) 3' **

Signal Processing for Sensor Networks

Distributed Multiuser MMSE Relaying Strategies for AF Wireless Relay Networks

Kanghee Lee (Wichita State University, USA), Hyuck Kwon (Wichita State University, USA), Jie Yang (Wichita State University, USA), Edwin Sawan (Wichita State University, USA), Hyuncheol Park (KAIST, Korea) 3' +&

Optimal Sampling of Random Processes under Stochastic Energy Constraints

Jing Yang (University of Arkansas, USA), Jingxian Wu (University of Arkansas, USA) 3' ++

Physical Layer Binary Consensus Over Fading Wireless Channels and With Imperfect CSI

Venugopalakrishna Y R (Indian Institute of Science, India), Chandra R Murthy (Indian Institute of Science, India) 3' , '

Narrowband Cooperative Network Localization

Nikos Fasarakis-Hilliard (University of Alberta, Canada), Panos N. Alevizos (Technical University of Crete, Greece), Aggelos Bletsas (Technical University of Crete, Greece) 3' , -

Factor Graph-Based Distributed Frequency Allocation in Wireless Sensor Networks

Panos N. Alevizos (Technical University of Crete, Greece), Efthymios Vlachos (Technical University of Crete, Greece), Aggelos Bletsas (Technical University of Crete, Greece) 3' -)

Controlled Sensing: A Myopic Fisher Information Sensor Selection Algorithm

Daphney-Stavroula Zois (University of Southern California, USA), Urbashi Mitra (University of Southern California, USA) 34\$%

Signal Processing for Synchronization

<i>Joint Synchronization and Equalization in the Uplink of Multi-user OPRFB Transceivers</i>	
Siavash Rahimi (McGill University, Canada), Benoit Champagne (McGill University, Canada)	34\$+
<i>Employing ICA for Inter-Carrier Interference Cancellation and Symbol Recovery in OFDM Systems</i>	
Zhongqiang Luo (University of Electronic Science and Technology of China, P.R. China), Lidong Zhu (University of Electronic Science and Technology of China, P.R. China), Li Chengjie (University of Electronic Science and Technology of China, P.R. China)	3(%
<i>Low power synchronization design for large bandwidth wireless LAN systems</i>	
Sridhar Rajagopal (Samsung Electronics & Samsung Research America - Dallas, USA), Shadi Abu-Surra (Samsung Research America - Dallas, USA), Eran Pisek (Samsung Research America - Dallas, USA)	3(%
<i>Channel Estimation and Carrier Recovery in the Presence of Phase Noise in OFDM Relay Systems</i>	
Rui Wang (Tongji University, P.R. China), Hani Mehrpouyan (California State University, USA), Meixia Tao (Shanghai Jiao Tong University, P.R. China), Yingbo Hua (University of California, Riverside, USA)	3(&(
<i>ICA Based Joint Semi-Blind Equalization and CFO Estimation for OFDMA Systems</i>	
Yufei Jiang (University of Liverpool, United Kingdom), Xu Zhu (University of Liverpool, United Kingdom), Eng Gee Lim (Xi'an Jiaotong-Liverpool University, P.R. China), Yi Huang (University of Liverpool, United Kingdom), Hai Lin (Osaka Prefecture University, Japan)	3(' \$
<i>Carrier Frequency Recovery in Wireless Transceivers with Transient Impairments</i>	
Jin Yuan (University of Texas at Dallas, USA), Murat Torlak (The University of Texas at Dallas, USA)	3(')

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MIMO I

<i>Linear Precoder for Codeword Error Minimization in MIMO Systems with Channel Estimation Errors</i>	
Boon Sim Thian (Institute for Infocomm Research, Singapore), Hieu Duy Nguyen (Institute for Infocomm Research (I2R), The Agency for Science, Technology and Research (ASTAR), Singapore), Sumei Sun (Institute for Infocomm Research, Singapore)	3, 2+
<i>Degrees of Freedom of Relay-Assisted MIMO Interfering Broadcast Channels</i>	
Lu Yang (University of New South Wales, Australia), Wei Zhang (The University of New South Wales, Australia)	3, 3'
<i>Joint Transmit and Receive Antennas Selection for Full Duplex MIMO Systems</i>	
Mingxin Zhou (Peking University, P.R. China), Lingyang Song (Peking University, P.R. China), Yonghui Li (University of Sydney, Australia)	3, ' ,
<i>Asynchronous Orthogonal Differential Modulation for MAC Systems</i>	
Sina Poorkasmaei (University of California, Irvine, USA), Hamid Jafarkhani (University of California, Irvine, USA)	3, ((
<i>A POMDP Solution to Antenna Selection for PER Minimization</i>	
Sinchu P (NPOL, India), Reuben G. Stephen (National University of Singapore, Singapore), Chandra R Murthy (Indian Institute of Science, India), Marceau Coupechoux (Telecom ParisTech, France)	3,) \$
<i>Globally Optimal Antenna Selection and Power Allocation for Energy Efficiency Maximization in Downlink Distributed Antenna Systems</i>	
Yuzhou Li (Xidian University, P.R. China), Min Sheng (Xidian University, P.R. China), Xijun Wang (Xidian University, P.R. China), Yan Shi (Xidian University, P.R. China), Yan Zhang (Xidian University, P.R. China)	3,) *

Modulation and Transmission Processing

Performance and Spectral Analysis of Q2PSK and CEQ2PSK Systems in Ideal Bandlimited Channels

Milton Quinteros (University of New Orleans, USA), Edit J. Kaminsky (University of New Orleans, USA), Kenneth V. Cartwright (College of The Bahamas, Bahamas) 3, * &

Pseudo-random Phase Precoded Spatial Modulation and Precoder Index Modulation

T. Lakshmi Narasimhan (Indian Institute of Science, Bangalore, India), Yalagala Naresh (Indian Institute of Science, India), Tanumay Datta (Indian Institute of Science, India), A. Chockalingam (Indian Institute of Science, India) 3, *,

A Low-Complexity Rate Compatible Modulation via Variable Weight Sets

Wengui Rao (Huazhong University of Science and Technology & South-Central University for Nationalities, P.R. China), Fang Lu (Huazhong University of Science and Technology, P.R. China), Shaoping Chen (South-Central University for Nationalities, P.R. China), Yan Dong (Huazhong University of Science and Technology, P.R. China), Shu Wang (Huazhong University of Science and Technology, P.R. China) 3, +(

Orthogonal Frequency Division Multiplexing with Generalized Index Modulation

Rui Fan (Nanyang Technological University, Singapore), Ya Jun Yu (Nanyang Technological University, Singapore), Yong Liang Guan (Nanyang Technological University, Singapore) 38, \$

Continuous Phase Modulated Orthogonal Multiple Access Scheme

Li Bing (Xidian University, P.R. China), Tor M. Aulin (Chalmers University of Technology & AUCOM International Consulting Telecomm, Sweden), Baoming Bai (Xidian University, P.R. China) 3, , *

Method of Simultaneous Transmission to Coherent and Non-coherent Receivers Using Ternary Sequences

Sujit Jos (Samsung Advanced Institute of Technology India Labs & Samsung R&D Institute Bangalore, India), Chandrashekhara Thejaswi (Indian Institute of Science, India), Kiran Bynam (Samsung India, India), Young-Jun Hong (Samsung Electronics & Samsung Advanced Institute of Technology, Korea), Chang Soon Park (SAIT, Korea), Manoj Choudhary (Samsung India Software Operations, India) 3, - &

Multiuser MIMO

Precoding for Multiuser MIMO Systems with Single-Fed Parasitic Antenna Arrays

George C. Alexandropoulos (Huawei Technologies Co. Ltd., Greece), Vlas Barousis (Athens Information Technology, Greece), Constantinos B. Papadias (Athens Information Technology, Greece) 3, 9+

Continuous and Discrete Sum-Rate Maximization for Multiuser MIMO-OFDM Systems with CoMP

Chih-yu Hsu (University of Melbourne, Australia), Meng Wang (University of Melbourne, Australia), Phee Lep Yeoh (University of Melbourne, Australia), Brian Krongold (University of Melbourne, Australia) 3- \$'

Fairness Based Resource Allocation for Multiuser MIMO Communication Networks

Hsin-Jui Chou (National Tsing Hua University, Taiwan), Che-Jui Tsao (National Tsing Hua University, Taiwan), Jen-Ming Wu (National Tsing Hua University, Taiwan), Jen-Yuan Hsu (Industrial Technology Research Institute, Taiwan), Pangan Ting (Tsing Hua University, Taiwan) 3- %\$

Energy Efficiency Maximization in Downlink Multiuser MIMO Systems: An Asymptotic Analysis Approach

Liwei Yan (Tsinghua University, P.R. China), Bo Bai (Tsinghua University, P.R. China), Wei Chen (Tsinghua University, P.R. China) 3- %*

Optimal Linear Precoding in Multi-User MIMO Systems: A Large System Analysis

Luca Sanguinetti (University of Pisa & SUPELEC, Italy), Emil Björnson (Linköping University, Sweden), Mérouane Debbah (Supelec, France), Aris Moustakas (University of Athens, Greece) 3- &&

Complex Gaussian Belief Propagation Algorithms for Distributed Multicell Multiuser MIMO Detection

Ziqi Yue (Harbin Institute of Technology, P.R. China), Qing Guo (Harbin Institute of Technology, P.R. China), Wei Xiang (University of Southern Queensland, Australia) 3- &

OFDM/Multi-Carrier/Multiple Access

Least-Squares Iterative Peak-to-Average Ratio Reduction for MIMO-OFDM Systems

Abdul Wakeel (Jacobs University Bremen, Germany), Werner Henkel (Jacobs University Bremen, Germany) 3- ' (

On CP Based OQAM-OFDM Systems and Their Power Spectral Densities

Da Chen (Huazhong University of Science and Technology, P.R. China), Xiang-Gen Xia (University of Delaware, USA), Tao Jiang (Huazhong University of Science and Technology, P.R. China), Xiqi Gao (Southeast University, P.R. China) B #5

SCMA for Downlink Multiple Access of 5G Wireless Networks

Hosein Nikopour (Huawei Technologies Canada, Canada), Eric Yi (Huawei Technologies Canada Co., LTD, Canada), Alireza Bayesteh (Huawei Technologies Co., Ltd., Canada), Kelvin Au (Huawei Technologies, Canada), Mark Hawryluck (Huawei, Canada), Hadi Baligh (Huawei Canada, Canada), Jianglei Ma (Huawei, Canada) ' - (\$

Multi-Carrier Circular-Shift Division Multiple Access for Multi-user Wireless Systems

Jingxian Wu (University of Arkansas, USA), Ali Alqatawneh (University of Arkansas, USA), Hai Lin (Osaka Prefecture University, Japan) ' - (*

Impact of Feedback Delays on EESM-based Wideband Link Adaptation: Modeling and Analysis

Jobin Francis (Indian Institute of Science, India), Neelesh B. Mehta (Indian Institute of Science, India) ' -) &

Precoding for OFDM under Disguised Jamming

Tianlong Song (Michigan State University, USA), Zhaoxi Fang (Zhejiang Wanli University, P.R. China), Jian Ren (Michigan State University, USA), Tongtong Li (Michigan State University, USA) ' -) ,

Performance Analysis and Design Tradeoffs I

Totally Distributed Energy-Efficient Transmission Design in MIMO Interference Channels

Cunhua Pan (Southeast University, P.R. China), Wence Zhang (Southeast University, P.R. China), Bo Du (Southeast University, P.R. China), Hong Ren (Southeast University, P.R. China), Ming Chen (Southeast University, P.R. China) 3- * (

Performance of Hierarchical Diversity Over Correlated Rician Channels

Bingcheng Zhu (Southeast University, Canada), Julian Cheng (University of British Columbia, Canada), Ho Ting Cheng (BLiNQ Networks Inc., Canada), Radu Selea (BLiNQ Networks Inc., Canada), Lenan Wu (Southeast University, P.R. China) 3- + \$

Novel Unified Expressions for Error Rates and Ergodic Channel Capacity Analysis over Generalized Fading Subject to AWGGN

Ehab Salahat (Khalifa University, UAE), Ali Hakam (UAE University, UAE) 3- + *

BER and SER Analyses for M-ary Modulation Schemes Under Symmetric Alpha-Stable Noise

Fan Yang (University of Electronic Science and Technology of China, P.R. China), Xi Zhang (Texas A&M University, ECE Department, USA) 3- , '

Multi-User Coverage Probability of Uplink Cellular Systems: a Stochastic Geometry Approach

Francisco Javier Martin-Vega (University of Málaga & IEEE Student Member, Spain), Francisco Javier Lopez-Martinez (Universidad de Malaga & Stanford University, Spain), Gerardo Gomez (University of Málaga, Spain), Mari Carmen Aguayo-Torres (University of Malaga, Spain) 39, -

Pairwise Error Probability of Turbo Codes over Joint Fading and Two-Path Shadowing Channels

Indrakshi Dey (University of Calgary, Canada), Geoffrey G. Messier (University of Calgary, Canada), Sebastian Magierowski (York University, Canada) 3- -)

Performance Analysis and Design Tradeoff II

- I/Q Imbalance in Two-Way AF Relaying: Performance Analysis and Detection Mode Switch*
 Jingya Li (Chalmers University of Technology, Sweden), Michail Matthaiou (Queen's University Belfast, United Kingdom), Tommy Svensson (Chalmers University of Technology, Sweden) (\$\$%
- Single User Detection of Continuous Phase Modulated Multiuser Systems*
 Li Bing (Xidian University, P.R. China), Tor M. Aulin (Chalmers University of Technology & AUCOM International Consulting Telecomm, Sweden), Baoming Bai (Xidian University, P.R. China) (\$\$,
- Energy-Delay Tradeoffs in Impulse-based Ultra-Wideband Body Area Networks with Noncoherent Receivers*
 Mohammad Sadegh Mohammadi (Aarhus University & Macquary University, Denmark), Qi Zhang (Aarhus University, Denmark), Eryk Dutkiewicz (Macquarie University, Australia), Xiaojing Huang (University of Technology, Sydney, Australia), Rein Vesilo (Macquarie University, Australia) (%&
- New Asymptotics for Performance of Energy Detector*
 Vesh Raj Sharma Banjade (University of Alberta, Canada), Chintha Tellambura (University of Alberta, Canada), Hai Jiang (University of Alberta, Canada) (\$\$&
- Sum Rate Analysis of Coordinated Beamforming in Multi-Cell Downlink with Imperfect CSI*
 Xiaoming Chen (Nanjing University of Aeronautics and Astronautics, P.R. China), Huazi Zhang (Zhejiang University, P.R. China), Xiumin Wang (Hefei University of Technology, P.R. China), Chau Yuen (Singapore University of Technology and Design, Singapore) (\$&)
- Two-Way Relaying Networks with Wireless Power Transfer: Policies Design and Throughput Analysis*
 Yuanwei Liu (Queen Mary, University of London, United Kingdom), Lifeng Wang (Queen Mary, University of London, United Kingdom), Maged Elkaslan (Queen Mary, University of London, United Kingdom), Trung Q. Duong (Queen's University Belfast, United Kingdom), Arumugam Nallanathan (King's College London, United Kingdom) (\$' \$

Detection and Estimation

- OMP-Based Detector Design for Space Shift Keying in Large MIMO Systems*
 Chien-Hsien Wu (Academia Sinica & Research Center for Information Technology Innovation, Taiwan), Wei-Ho Chung (Academia Sinica, Taiwan), Han-Wen Liang (Academia Sinica, Taiwan) (\$+&
- Time Reversal for Ant Trails in wireless networks*
 Dinh-Thuy Phan-Huy (Orange-France Telecom, France), Nadine Malhouroux (France Telecom Research & Development, France), Maryline H  lard (INSA Rennes & IETR Institute of Electronics and Telecommunications of Rennes, France) (\$++
- Closed-Form Cram  r-Rao Lower Bounds for CFO and Phase Estimation from Turbo-Coded Square-QAM-Modulated signals*
 Faouzi Bellili (INRS, Canada), Achref Methenni (Institut National de la Recherche Scientifique, INRS-EMT, Montreal, Canada), Sofiene Affes (INRS-EMT, Canada) (\$, '
- Investigation of Short-range High Precision 3D Localization via UWB Radio*
 Hailiang Xiong (The School of Information Science and Engineering, Shandong University, P.R. China), Julian Cheng (University of British Columbia, Canada) (\$- \$
- Joint Equalization and Phase Drift Estimation for Underwater Acoustic Communications*
 Pedro Pedrosa (Instituto de Telecomunica  es - Lisboa & Instituto Superior Tecnico, Portugal), Rui Dinis (Instituto de Telecomunicacoes & FCT-UNL, Portugal), Fernando Nunes (Instituto Superior T  cnico & Instituto de Telecomunica  es, Portugal) (\$- *
- Channel Training Procedures for MIMO Interfering Point-to-Multipoint Channel*
 Adrian Agustin (Universitat Polit  cnica de Catalunya (UPC), Spain), Sandra Lagen (Universitat Polit  cnica de Catalunya, Spain), Josep Vidal (Universitat Polit  cnica de Catalunya, Spain) (%&&

Physical Layer Security

- Secrecy Outage of a Two-User Slow Fading Broadcast Channel*
Bo Wang (Xi'an Jiaotong University, P.R. China), Pengcheng Mu (Xi'an Jiaotong University, P.R. China), Hui-Ming Wang (Xi'an Jiaotong University, P.R. China), Qinye Yin (Xi'an Jiaotong University, P.R. China) (%\$,
- Channel-based Physical Layer Authentication*
Chengcheng Pei (University of Waterloo, Canada), Ning Zhang (University of Waterloo, Canada), Sherman Shen (University of Waterloo, Canada), Jon Mark (University of Waterloo, Canada) (%%,
- Secure Multiuser Multiple Amplify-and-Forward Relay Networks in Presence of Multiple Eavesdroppers*
Lisheng Fan (Shantou University, P.R. China), Xianfu Lei (Utah State University, USA), Trung Q. Duong (Queen's University Belfast, United Kingdom), Maged ElKashlan (Queen Mary, University of London, United Kingdom), George K. Karagiannidis (Aristotle University of Thessaloniki, Greece) (%&\$
- Analyzing Mobile Phone Vulnerabilities Caused by Camera*
Longfei Wu (Temple University, USA), Xiaojiao Du (Temple University, USA), Li Wang (Beijing University of Posts and Telecommunications, P.R. China), Xinwen Fu (University of Massachusetts Lowell, USA), Ralph Mbouna (Temple University, USA), Seong Kong (Temple University, USA) (%&*
- Secure Wireless Information and Power Transfer in Large-Scale MIMO Relaying Systems with Imperfect CSI*
Xiaoming Chen (Nanjing University of Aeronautics and Astronautics, P.R. China), Jian Chen (Nanjing University of Aeronautics and Astronautics, P.R. China), Tao Liu (Nanjing University of Aeronautics and Astronautics, P.R. China) (% %

Relaying I

- Cognitive DF Generalized Order Relay Selection Networks with Imperfect Channel Estimation and Interference from Primary User*
Anas M. Salhab (King Fahd University of Petroleum & Minerals, Saudi Arabia), Salam A. Zummo (KFUPM, Saudi Arabia) (% +
- Interference-Aware Dual-Hop Cooperative Relaying in a Poisson Field of Interferers*
Wei Lu (L2S, CNRS, Université Paris-Sud, France), Marco Di Renzo (French National Center for Scientific Research (CNRS), France) (%,'
- Relay-Assisted Downlink Transmissions to Support Increased Data Rates for Single Antenna Users*
Fadhel Alhumaidi (Dalhousie University, Canada), Jacek Ilow (Dalhousie University, Canada) (%) \$
- Achievable Rates for the Fading Half-Duplex Single Relay Selection Network Using Buffer-Aided Relaying*
Nikola Zlatanov (University of British Columbia, Canada), Vahid Jamali (Friedrich-Alexander-University Erlangen-Nürnberg, Germany), Robert Schober (University of British Columbia, Canada) (%) *
- A Delay-Constrained Protocol with Adaptive Mode Selection for Bidirectional Relay Networks*
Vahid Jamali (Friedrich-Alexander-University Erlangen-Nürnberg, Germany), Nikola Zlatanov (University of British Columbia, Canada), Robert Schober (University of British Columbia, Canada) (%* &
- Achievable Rates for Uplink Communications in LTE-Advanced Networks with Decode-and-Forward Relays*
Xiaoxia Zhang (University of Waterloo, Canada), Sherman Shen (University of Waterloo, Canada), Liang-Liang Xie (University of Waterloo, Canada) (%*,

Relaying III

- Performance Analysis of Multiuser 2-hop Systems with Random Placement of Relay Nodes*
Alberto Zanella (Istituto di Elettronica e di Ingegneria dell'Inform. e delle Telecomunicazioni, Italy), Alessandro Bazzi (WiLab, IEIIT-BO/CNR, University of Bologna, Italy), Barbara M Masini (CNR - IEIIT & University of Bologna, Italy), Gianni Pasolini (University of Bologna, Italy) (% + (
- Non-Linear Lattice Precoding for Multiuser Cellular Two-Way Relay Channels*
Zhaoxi Fang (Zhejiang Wanli University, P.R. China), Xiaojun Yuan (ShanghaiTech University, P.R. China), Xin Wang (Fudan University, P.R. China) (% \$
- Distributed power control over interference channels using ACK/NACK feedback*
Riccardo Andreotti (University of Pisa, Italy), Leonardo Marchetti (Università di Pisa, Italy), Luca Sanguinetti (University of Pisa & SUPELEC, Italy), Mérouane Debbah (Supelec, France) (% *
- The Impact of Relay Selection on the Tradeoff Between Information Transmission and Wireless Energy Transfer*
Diomidis S. Michalopoulos (University of Erlangen-Nuremberg & Institute for Digital Communications, Germany), Himal A Suraweera (University of Peradeniya, Sri Lanka), Robert Schober (Universität Erlangen-Nürnberg, Germany) (% - %
- A Coalition Formation Game for Transmitter Cooperation in OFDMA Uplink Communications*
Ali Chelli (King Abdullah University of Science and Technology (KAUST), Saudi Arabia), Hamidou Tembine (Supelec, France), Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi Arabia) (% +
- Spectral Efficiency of Cooperative Full-Duplex Relaying with Imperfect Channel Estimation*
Li Li (University of Delaware, USA), Leonard Cimini (University of Delaware, USA), Yao Xiao (University of Delaware, USA) (& \$'

Resource Allocation

- Joint Downlink and Uplink Resource Allocation for Energy-efficient Carrier Aggregation*
Guanding Yu (Zhejiang University, P.R. China), Qimei Chen (Zhejiang University, P.R. China), Rui Yin (Zhe Jiang Gongshang University & Zhejiang University, P.R. China), Huazi Zhang (Zhejiang University, P.R. China), Geoffrey Li (Georgia Tech, USA) (& \$-
- Random Access with Multipacket Reception and Adaptive Filtering*
Majid Ghanbarinejad (University of Alberta, Canada), Christian Schlegel (Dalhousie University, Canada), Majid Khabbazi (University of Alberta, Canada) (& %)
- Optimal Power and Polarization for the Capacity of Polarization Division Multiple Access Channels*
Seok-Chul Kwon (Georgia Institute of Technology, USA) (& & %
- Resource Allocation for HARQ-IR Systems with QoS Constraints and Limited Feedback*
Duc To (Aeroflex Limited, United Kingdom), Huan X Nguyen (Middlesex University, United Kingdom), Quoc-Tuan Vien (Middlesex University, United Kingdom), Li-Ke Huang (Aeroflex, United Kingdom) (& & *
- Joint Resource Allocation and User Association in Downlink Three-tier Heterogeneous Networks*
Chunshan Liu (Macquarie University, Australia), Philip Whiting (Macquarie University, Australia), Stephen Hanly (Macquarie University, Australia) (& ' &
- Energy-Optimal Probabilistic Base Station Sleeping under a Separation Network Architecture*
Shan Zhang (Tsinghua University, P.R. China), Jian Wu (Tsinghua University, P.R. China), Jie Gong (Tsinghua University, P.R. China), Sheng Zhou (Tsinghua University, P.R. China), Zhisheng Niu (Tsinghua University, P.R. China) (& ' -

Small Cells

Enhancing Cell Edge Users Performance in Open Access Small Cells Networks: A Cross Layer Approach

Ali Y. Al-Zahrani (Carleton University, Canada), F. Richard Yu (Carleton University, Canada) (& ()

Designing Femtocell Exclusion Zones to Minimize Power in a Heterogeneous Network

Chenlong Jia (National University of Singapore, Singapore), Teng Joon Lim (National University of Singapore, Singapore) (&) %

Power Control and Rate Allocation for Outage Balancing in Femtocell Networks

Haining Wang (University of California, Davis, USA), Zhi Ding (University of California at Davis, USA) (&) +

Areal Capacity Limit on the Growth of Small Cell Density in Heterogeneous Networks

Jaewon Kim (Samsung Electronics, Korea), Cheol Jeong (Samsung Electronics, Korea), Hyunkyu Yu (Samsung Electronics, Korea), Jeongho Park (Samsung Electronics, Korea) (& * ')

Cognitive Spectrum Access in Macro-Femto Heterogeneous Networks

Lu Yang (The Hong Kong University of Science and Technology, Hong Kong), Shenghui Song (The Hong Kong University of Science and Technology, Hong Kong), Khaled B. Letaief (The Hong Kong University of Science and Technology, Hong Kong) (& * -)

Analytical Evaluation of Fractional Frequency Reuse for MIMO Heterogeneous Cellular Networks

Zhuang He (Keio University, Japan), Tomoaki Ohtsuki (Keio University, Japan) (& +)

Wireless Energy Transfer/ Energy Harvesting

Resource Allocation for Coordinated Multipoint Networks with Wireless Information and Power Transfer

Derrick Wing Kwan Ng (Friedrich-Alexander-University Erlangen-Nürnberg, Germany), Robert Schober (University of British Columbia, Canada) (& , %)

Effect of Opportunistic Scheduling on the Efficiency of Wireless Power Transfer

Minghua Xia (Institut National de la Recherche Scientifique (INRS), Canada), Sonia Aïssa (INRS, University of Quebec, Canada) (& , ,)

Optimal Energy-Efficient Transmission for Fading Channels with an Energy Harvesting Transmitter

Qingqing Wu (Shanghai Jiao Tong University, P.R. China), Meixia Tao (Shanghai Jiao Tong University, P.R. China), Wen Chen (Shanghai Jiao Tong University, P.R. China), Jinsong Wu (Bell Laboratories, Alcatel-Lucent, P.R. China) (& - ()

Data Acquisition with RF-based Energy Harvesting Sensor: From Information Theory to Green System

Tao Li (Tsinghua University, P.R. China), Pingyi Fan (Tsinghua University, P.R. China), Khaled B. Letaief (The Hong Kong University of Science and Technology, Hong Kong) (' \$ \$)

Energy Harvesting Transmitter with Finite-Alphabet Inputs and Statistical CSI: Online Precoding by Dynamic Programming

Weiliang Zeng (Missouri University of Science and Technology, USA), Yahong Rosa Zheng (Missouri University of Science and Technology, USA), Chengshan Xiao (Missouri University of Science and Technology, USA) (' \$ *)

Optimal Training for Wireless Energy Transfer

Yong Zeng (National University of Singapore, Singapore), Rui Zhang (National University of Singapore, Singapore) (' % &)

Cognitive Networks

Multi-Objective Clustering Optimization for Multi-Channel Cooperative Sensing in CRNs

Abdulkadir Celik (Iowa State University, USA), Ahmed E. Kamal (Iowa State University, USA) 3 ((%)

<i>Kalman Filter Based Incumbent User Active Area Detection for Licensed Shared Access</i> Beeshanga Abewardana Jayawickrama (Macquarie University, Australia), Eryk Dutkiewicz (Macquarie University, Australia), Markus Dominik Mueck (Intel Mobile Communications, Germany)	B #5
<i>Resource Allocation schemes for Cognitive LTE-A Femto-cells using Zero Forcing Beamforming and Users Selection</i> Giulio Bartoli (University of Florence, Italy), Romano Fantacci (University of Florence, Italy), Dania Marabissi (University of Florence, Italy), Marco Pucci (University of Florence, Italy)	' ((+
<i>Optimal Power Control for Underlay Cognitive Radio Systems with Arbitrary Input Distributions</i> Gozde Ozcan (Syracuse University, USA), M. Cenk Gursoy (Syracuse University, USA)	' () '
<i>LTE in the Unlicensed Spectrum: A Novel Coexistence Analysis with WLAN Systems</i> Jeongho Jeon (Intel Corporation, USA), Qian (Clara) Li (Intel Corporation, USA), Huaning Niu (Intel, USA), Apostolos Papathanassiou (Intel Corporation & Intel Architecture Group, USA), Geng Wu (Intel Corporation, USA)	' () -
<i>Wireless Energy Harvesting and Information Transfer in Cognitive Two-Way Relay Networks</i> Zihao Wang (Shanghai Jiao Tong University, P.R. China), Zhiyong Chen (Shanghai Jiao Tong University, P.R. China), Yao Yao (Huawei Technologies Co., Ltd., P.R. China), Bin Xia (Shanghai Jiao Tong University, P.R. China), Hui Liu (Shanghai JiaoTong University, P.R. China)	' (*)

Cooperative Communications

<i>Pricing-based Distributed Power Control for Weighted Sum Energy-Efficiency Maximization in Ad Hoc Networks</i> Cunhua Pan (Southeast University, P.R. China), Bingyang Wu (Southeast University, P.R. China), Nuo Huang (Southeast University, P.R. China), Hong Ren (Southeast University, P.R. China), Ming Chen (Southeast University, P.R. China)	') + -
<i>Selection Decode-and-Forward Cooperative FSO Systems with Adaptive Rate Strategy over Gamma-Gamma Fading Channels</i> Bach Vu (The University of Aizu, Japan), Truong Cong Thang (The University of Aizu, Japan), Anh T. Pham (The University of Aizu, Japan)	') ,)
<i>Scalable Coordinated Uplink Processing in Cloud Radio Access Networks</i> Congmin Fan (The Chinese University of Hong Kong, Hong Kong), Ying Jun (Angela) Zhang (The Chinese University of Hong Kong, Hong Kong), Xiaojun Yuan (ShanghaiTech University, P.R. China)	') - %
<i>Outage Probability of Underlay Cognitive Relay Networks with Spatially Random Nodes</i> Yamuna Dhungana (University of Alberta, Canada), Chintla Tellambura (University of Alberta, Canada)	') - +
<i>Scalable Coordinated Beamforming for Dense Wireless Cooperative Networks</i> Yuanming Shi (The Hong Kong University of Science and Technology, Hong Kong), Jun Zhang (The Hong Kong University of Science and Technology, Hong Kong), Khaled B. Letaief (The Hong Kong University of Science and Technology, Hong Kong)	' * \$'
<i>The Exact Outage Probability of Multiuser Linear Network Coded Cooperation System</i> Zhenzhou Tang (Wenzhou University, P.R. China), Hongyu Wang (Dalian University of Technology, P.R. China), Qian Hu (Wenzhou University, P.R. China), Xiaoqi Shi (Wenzhou University, P.R. China)	' * \$-

Heterogeneous networks

<i>Load Balancing with Almost Blank Subframe Control in Heterogeneous Cellular Networks</i> Doo-hyun Sung (University of Maryland, College Park, USA), John S. Baras (University of Maryland College Park, USA)	' * %)
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<i>Utility-based Almost Blank Subframe Optimization in Heterogeneous Cellular Networks</i>	
Doo-hyun Sung (University of Maryland, College Park, USA), John S. Baras (University of Maryland College Park, USA)	' * &
<i>Analytical Modeling of Cognitive Heterogeneous Cellular Networks over Nakagami-m Fading</i>	
Fereidoun H. Panahi (Keio University, Japan), Tomoaki Ohtsuki (Keio University, Japan)	' * &
<i>Heterogeneous Network Throughput with Hybrid-Duplex Systems</i>	
Jemin Lee (Singapore University of Technology and Design (SUTD), Singapore), Tony Q. S. Quek (Singapore University of Technology and Design, Singapore)	' * ')
<i>Fitting Determinantal Point Processes to Macro Base Station Deployments</i>	
Yingzhe Li (The University of Texas at Austin, USA), Francois Baccelli (UT Austin & The University of Texas at Austin, USA), Harpreet S Dhillon (Virginia Tech, USA), Jeffrey Andrews (The University of Texas at Austin, USA)	' * (%
<i>Statistical Modeling of Spatial Traffic Distribution with Adjustable Heterogeneity and BS-Correlation in Wireless Cellular Networks</i>	
Meisam Mirahsan (Carleton University, Canada), Rainer Schoenen (RWTH Aachen University, Faculty 6, Germany), Halim Yanikomeroglu (Carleton University, Canada)	' * (+

Heterogeneous networks -2

<i>Joint Multiuser Downlink Beamforming and Admission Control in Heterogeneous Networks</i>	
Duy H. N. Nguyen (McGill University, Canada), Long Bao Le (INRS, University of Quebec, Canada), Tho Le-Ngoc (McGill University, Canada)	' *) '
<i>Overlaid Device-to-Device Communication in Cellular Networks</i>	
Geordie George (Universitat Pompeu Fabra, Spain), Ratheesh K. Mungara (Universitat Pompeu Fabra (UPF), Spain), Angel Lozano (Universitat Pompeu Fabra (UPF), Spain)	' *) -
<i>Distributed and QoS-Driven Cell Association in HetNets to Minimize Global Outage Probability</i>	
Hamidreza Boostanimehr (University of British Columbia, Canada), Vijay Bhargava (University of British Columbia, Canada)	' * *)
<i>Coverage Analysis for Two-tier Dynamic TDD Heterogeneous Networks</i>	
Hongguang Sun (Xidian University, P.R. China), Min Sheng (Xidian University, P.R. China), Matthias Wildemeersch (Singapore University of Technology and Design (SUTD), Singapore), Tony Q. S. Quek (Singapore University of Technology and Design, Singapore)	' * + &
<i>Improved MPSO Based eICIC Algorithm for LTE-A Ultra Dense HetNets</i>	
Huilin Jiang (Southeast University, P.R. China), Pei Li (Southeast University, P.R. China), Zhihang Li (Southeast University, P.R. China), En Tong (Southeast University, P.R. China), Zhiwen Pan (Southeast University, P.R. China), Nan Liu (Southeast University, P.R. China), Xiaohu You (National Mobile communication Research Lab., Southeast University, P.R. China)	' * + ,
<i>Spatial Multiplexing in Heterogeneous Networks with MMSE Receiver</i>	
Sreejith Thazhathe Veetil (Indian Institute of Technology Hyderabad, India), Kiran Kuchi (IIT Hyderabad, India), Radha Krishna Ganti (Indian Institute of Technology Madras, India)	' * , (

Interference coordination

<i>Cognitive Blind Interference Alignment for Macro-Femto Cellular Networks</i>	
Maximo Morales (Universidad Carlos III de Madrid, Spain), Jorge Plata-Chaves (Katholieke Universiteit Leuven (KU Leuven), Belgium), Dimitris Toumpakaris (University of Patras, Greece), Ana Garcia Armada (Universidad Carlos III de Madrid, Spain)	' + &
<i>On Interference Alignment over Frequency Selective Channel</i>	
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<i>Self-Mixed Self-Interference Analog Cancellation in Full-Duplex Communications</i>	
Hongtao Lu (University of Electronic Science and Technology of China, P.R. China), Shihai Shao (University of Electronic Science and Technology of China, P.R. China), Youxi Tang (University of Electronic Science and Technology of China, P.R. China)	' + ' +

<i>Interference coordination and resource allocation in dense small cell networks</i>	
Pablo Soldati (Huawei Technologies Sweden AB, Sweden)	' + (&
<i>Adaptive MMSE-based Beamformer Design for Multiuser MIMO Interference Channels</i>	
S. Morteza Razavi (The University of Edinburgh, United Kingdom), Tharmalingam Ratnarajah (The University of Edinburgh, United Kingdom)	' + (,
<i>Beamforming Design with Proactive Interference Cancellation in MISO Interference Channels</i>	
Yang Li (Beihang University, P.R. China), Yafei Tian (Beihang University, P.R. China), Chenyang Yang (Beihang University, P.R. China)	B #5

Massive MIMO I

<i>New Approach for Massive MIMO Detection Using Sparse Error Recovery</i>	
Jun Won Choi (Hanyang University, Korea), Byonghyo Shim (Seoul National University, Korea)	' +) (
<i>Analysis of Rate Optimized Throughput for Large-Scale MIMO-(H)ARQ Schemes</i>	
Peter Larsson (KTH Royal Institute of Technology, Sweden), Lars K. Rasmussen (KTH Royal Institute of Technology, Sweden), Mikael Skoglund (KTH Royal Institute of Technology, Sweden)	' + * \$
<i>Data-Assisted Channel Estimation for Uplink Massive MIMO Systems</i>	
Rui Wang (The South University of Science and Technology of China, P.R. China), Yifan Chen (South University of Science and Technology of China, P.R. China), Haisheng Tan (Jinan University, P.R. China)	' + * *
<i>Achievable Rates of Uplink Multiuser Massive MIMO Systems with Estimated Channels</i>	
Songtao Lu (Iowa State University, USA), Zhengdao Wang (Iowa State University, USA)	' ++ &
<i>Achievable Rate Analysis of Large Scale Antenna Systems with Hardware Mismatch in UL/DL</i>	
Wence Zhang (Southeast University, P.R. China), Cunhua Pan (Southeast University, P.R. China), Bo Du (Southeast University, P.R. China), Ming Chen (Southeast University, P.R. China), Rodrigo C. de Lamare (University of York, United Kingdom)	' ++ ,
<i>Constant-Envelope Omni-Directional Transmission with Diversity in Massive MIMO Systems</i>	
Xin Meng (Southeast University, P.R. China), Xiang-Gen Xia (University of Delaware, USA), Xiqi Gao (Southeast University, P.R. China)	' + , (

Millimeter Wave and Tera Hz Communications

<i>Indoor Terahertz Communications with Antenna Subarrays</i>	
Cen Lin (Georgia Institute of Technology, USA), Geoffrey Li (Georgia Tech, USA)	' + - \$
<i>Pulsed Terahertz Time-Domain Communication</i>	
Farnoosh Moshir (Portland State University, USA), Suresh Singh (Portland State University, USA)	' + - *
<i>On the feasibility of beamforming in millimeter wave communication systems with multiple antenna arrays</i>	
Jaspreet Singh (Samsung Telecommunications America, USA), Sudhir Ramakrishna (Samsung, USA)	' , \$ &
<i>Coverage and Rate Trends in Dense Urban mmWave Cellular Networks</i>	
Mandar N. Kulkarni (The University of Texas at Austin, USA), Sarabjot Singh (The University of Texas at Austin, USA), Jeffrey Andrews (The University of Texas at Austin, USA)	' , \$ -
<i>Low Complexity RF Beam Search Algorithms for Millimeter-Wave Systems</i>	
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Channel Measurement and Modeling (Interactive)

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Ultra-Wideband Statistical Channel Model for Non Line of Sight Millimeter-Wave Urban Channels

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A Variable-Length Channel Quantizer for Multicast Networks with Two Users

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Massive MIMO II (Interactive)

Constellation Design in Noncoherent Massive SIMO Systems

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Conjugate Gradient-based Soft-Output Detection and Precoding in Massive MIMO Systems

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Sub-Sector-Based Codebook Feedback for Massive MIMO with 2D Antenna Arrays

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Reciprocity calibration methods for Massive MIMO based on antenna coupling

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User Capacity of Pilot-Contaminated TDD Massive MIMO Systems

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Semi-orthogonal Pilot Design for Massive MIMO Systems Using Successive Interference Cancellation

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MIMO II (Interactive)

Energy Efficiency in Multi-Cell MIMO Broadcast Channels with Interference Alignment

Jie Tang (University of Manchester, United Kingdom), Daniel K. C. So (University of Manchester, United Kingdom), Emad Alsusa (Manchester University, United Kingdom), Khairi A. Hamdi (University of Manchester, United Kingdom), Arman Shojaeifard (University of Manchester, United Kingdom) 4\$36

Scalable algorithms for joint beam and null-forming using distributed antenna arrays

Amy Kumar (University of Iowa, USA), Raghuraman Mudumbai (University of Iowa, USA), Soura Dasgupta (The University of Iowa, USA) 4\$(&

Degrees of Freedom of Cellular Networks: Gain from Full-duplex Operation at a Base Station

Sung Ho Chae (Samsung Electronics, Korea), Sung Hoon Lim (EPFL, Switzerland) 4\$(,

Joint Coordinated Beamforming and Admission Control for Fronthaul Constrained Cloud-RANs

Vu Nguyen Ha (INRS, University of Quebec, Canada), Long Bao Le (INRS, University of Quebec, Canada) 4\$()

Convex-Concave Procedure for Weighted Sum-Rate Maximization in a MIMO Interference Network

Seungil You (California Institute of Technology, USA), Lijun Chen (University of Colorado at Boulder, USA), Youjian (Eugene) Eugene Liu (University of Colorado at Boulder, USA) (\$ * \$

Beamforming for Multiuser Massive MIMO Systems: Digital versus Hybrid Analog-Digital

Tadilo Endeshaw Bogale (University du Quebec, Institute National de la Recherche Scientifique (INRS), Canada), Long Bao Le (INRS, University of Quebec, Canada) (\$ * *

Relaying II (Interactive)

Peak Power Constrained Closed-Form Transceiver Designs for MIMO AF Relaying Systems with Direct Link

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Layered Compress-and-Forward Cooperation in Wireless Multicast with M-ary PAM transmissions

Isfar Tariq (Lahore University of Management Sciences, Pakistan), Mirza Uzair Baig (University of Hawaii, USA), Momin Uppal (Lahore University of Management Sciences, Pakistan) 43&(

Doubly Hermitian Precoding for Parallel MIMO Relay Networks

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Degrees of Freedom of Half-duplex MIMO Multi-way Relay Channel with Full Data Exchange

Tao Huang (University of New South Wales, Australia), Xiaojun Yuan (ShanghaiTech University, P.R. China), Jinhong Yuan (University of New South Wales, Australia) 43' *

<i>On the Achievable Rates of Full-duplex Gaussian Relay Channel</i>	
Zhengchuan Chen (Tsinghua University, P.R. China), Pingyi Fan (Tsinghua University, P.R. China), Dapeng Oliver Wu (University of Florida, USA), Ke Xiong (Beijing Jiaotong University, P.R. China), Khaled B. Letaief (The Hong Kong University of Science and Technology, Hong Kong)	43(&
<i>Energy Efficient Bit and Power Loading for OFDM-based Two-Way Relay Systems</i>	
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Channel Coding and ARQ

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Corina Ioana Ionita (Rice University, USA), Mohamed Mansour (TI, USA), June Chul Roh (Texas Instruments, Inc., USA), Srinath Hosur (Texas Instruments, USA)	') \$+
<i>On the Finite Blocklength Performance of HARQ in Modern Wireless Systems</i>	
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<i>Sparse Event Detection in Wireless Sensor Networks using Analog Fountain Codes</i>	
Mahyar Shirvanimoghaddam (University of Sydney, Australia), Yonghui Li (University of Sydney, Australia), Branka Vucetic (The University of Sydney, Australia)	') &\$
<i>Energy-Efficient Delay-Tolerant Communication: Revisiting Optimality of Superposition Coding in Broadcast Channels</i>	
Muryong Kim (The University of Texas at Austin, USA), Harish Viswanathan (Bell Labs, Alcatel-Lucent, USA)	') &*
<i>Blind Identification of Binary LDPC Codes for M-QAM Signals</i>	
Tian Xia (Louisiana State University, USA), Hsiao-Chun Wu (Louisiana State University, USA), Shih Yu Chang (National Tsing Hua University of Taiwan, Taiwan), Xian Liu (University of Arkansas at Little Rock, USA), Scott CH Huang (National Tsing Hua University, Taiwan)	') ' &
<i>LDPC Encoder Identification in Time-Varying Flat-Fading Channels</i>	
Tian Xia (Louisiana State University, USA), Hsiao-Chun Wu (Louisiana State University, USA), Supratik Mukhopadhyay (Louisiana State University, USA)	') ' +

Channel Estimation/Prediction

<i>Joint Time Synchronization and Channel Estimation for Two-Way Amplify-and-Forward Relay Systems</i>	
Chin-Liang Wang (National Tsing Hua University, Taiwan), Po-Chun Chiu (National Tsing Hua University, Taiwan), Hung-Chin Wang (National Tsing Hua University, Taiwan)	') (')
<i>Channel Prediction and Network Coding for Smart Gateway Diversity in Terabit Satellite Networks</i>	
Muhammad Muhammad (German Aerospace Center (DLR), Germany), Giovanni Giambene (University of Siena, Italy), Tomaso De Cola (German Aerospace Center (DLR), Germany)	') (-
<i>Nested Sampling for Higher-Order Statistics with Application to LTE Channel Estimation</i>	
Qiong Wu (University of Texas at Arlington, USA), Qilian Liang (University of Texas at Arlington, USA)	')))
<i>Optimal Training Design and Individual Channel Estimation for MIMO Two-Way Relay Systems in Colored Environment</i>	
Rui Wang (Tongji University, P.R. China), Hani Mehrpouyan (California State University, USA), Meixia Tao (Shanghai Jiao Tong University, P.R. China), Yingbo Hua (University of California, Riverside, USA)	') * %

<i>Time Varying Individual Channel Estimation for One-Way Relay Networks with UKF and URTSS</i>	
Shun Zhang (Xidian University, P.R. China), Feifei Gao (Tsinghua University, P.R. China), Hongyan Li (Xidian University, P.R. China)	') * +
<i>Simultaneous Time-Frequency Channel Estimation Based on Compressive Sensing for OFDM System</i>	
Wenbo Ding (Tsinghua University, P.R. China), Fang Yang (Tsinghua University, P.R. China), Chao Zhang (Tsinghua University, P.R. China), Linglong Dai (Tsinghua University, P.R. China), Jian Song (Tsinghua University, P.R. China)	') +'

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<i>Relieving Hotspots in Data Center Networks with Wireless Neighborways</i>	
Liqin Shan (Shanghai Jiaotong University, P.R. China), Chang Zhao (Shanghai Jiao Tong University, P.R. China), Xiaohua Tian (Shanghai Jiao Tong University, P.R. China), Yu Cheng (Illinois Institute of Technology, USA), Feng Yang (Shanghai Jiaotong University, P.R. China), Xiaoying Gan (Shanghai Jiao Tong University, P.R. China)	4' (+
<i>Coverage Study of Dense Device-to-Device Communications Underlying Cellular Networks</i>	
Xue Chen (Utah State University, USA), Zekun Zhang (Utah State University, USA), Rose Qingyang Hu (Utah State University, USA), Yi Qian (University of Nebraska-Lincoln, USA)	4') '
<i>Silence is Gold: Strategic Small Cell Interference Management Using Tokens</i>	
Cong Shen (Qualcomm, USA), Jie Xu (University of California, Los Angeles, USA), Mihaela van der Schaar (University of California, Los Angeles (UCLA), USA)	4') -
<i>Pre-coding for Multi-User Physical Network Coding over a Flat Fading Channel</i>	
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<i>Opportunistic Relay Selection for Cooperative Energy Harvesting Communication Networks</i>	
Yong Xiao (Singapore University of Technology and Design, Singapore), Zhu Han (University of Houston, USA), Luiz A. DaSilva (Virginia Polytechnic Institute and State University & Trinity College Dublin, Ireland)	4' +%
<i>A Novel Communication-Based Train Control (CBTC) System with Coordinated Multi-Point Transmission and Reception</i>	
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Self-Organizing Networks

<i>Zero-Determinant Strategy in Cheating Management of Wireless Cooperation</i>	
Huaqing Zhang (University of Houston, USA), Dusit Niyato (Nanyang Technological University, Singapore), Lingyang Song (Peking University, P.R. China), Tao Jiang (Huazhong University of Science and Technology, P.R. China), Zhu Han (University of Houston, USA)	4' , &
<i>Adaptive Proportional Fair Parameterization Based LTE Scheduling Using Continuous Actor-Critic Reinforcement Learning</i>	
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<i>On Placement and Dynamic Power Control of Femtocells in LTE HetNets</i>	
Vanlin Sathya (Indian Institute of Technology Hyderabad, India), Arun Ramamurthy (IIT Hyderabad, India), Bheemarjuna Reddy Tamma (IIT Hyderabad, India)	4' - (
<i>Connectivity in Mobile Tactical Networks</i>	
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<i>Low Complexity SON Coordination using Reinforcement Learning</i>	
Ovidiu Iacobaia (OrangeLabs and Telecom ParisTech, France), Berna Sayrac (Orange Labs, France), Sana Ben Jemaa (Orange Labs, France), Pascal Bianchi (Telecom Paristech - LTCI, France)	4(\$*
<i>Cognitive Radio Based Adaptive SON for LTE-A Heterogeneous Networks</i>	
Fei Qi (Beijing University of Posts and Telecommunication, P.R. China), Sun Songlin (Beijing University of Posts and Telecommunications, P.R. China), Bo Rong (Communications Research Center Canada, Canada), Rose Qingyang Hu (Utah State University, USA), Yi Qian (University of Nebraska-Lincoln, USA)	4(%&

Power Management and Energy Conservation Techniques

<i>Optimal Reader Location for Collision-Free Communication in WRSN</i>	
Yuelong Tian (Zhejiang University, P.R. China), Peng Cheng (Zhejiang University & Singapore University of Technology and Design, P.R. China), Liang He (Singapore University of Technology and Design, Singapore), Yu Gu (IBM Research-Austin, USA), Jiming Chen (Zhejiang University, P.R. China)	4(%
<i>Implementation of Energy Efficient Transmission Scheduling Policies on Software Defined Radio</i>	
Goksel Uctu (Middle East Technical University, Turkey), Omer M Gul (Middle East Technical University, Turkey), Baran Tan Bacinoglu (Middle East Technical University, Turkey), Elif Uysal-Biyikoglu (METU, Turkey)	B #5
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<i>Renewable Energy Aware Cluster Formation for CoMP Transmission in Green Cellular Networks</i>	
Yi-Han Chiang (National Taiwan University, Taiwan), Wanjiun Liao (National Taiwan University, Taiwan)	4(' \$
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Lu Liu (Illinois Institute of Technology, USA), Xianghui Cao (Illinois Institute of Technology, USA), Yu Cheng (Illinois Institute of Technology, USA), Li Wang (Beijing University of Posts and Telecommunications, P.R. China)	4(' *
<i>An Energy-Efficient Scheduling Algorithm for Real-Time Machine-to-Machine (M2M) Data Reporting</i>	
Yi-Bei Chen (NTHU, Taiwan), Shun-Ren Yang (NTHU, Taiwan), Jenq-Neng Hwang (University of Washington, USA), Ming-Zoo Wu (Institute for Information Industry, Taiwan)	4((&

Cross-Layer Design and Optimization

<i>Resource Sharing for Software Defined D2D Communications in Virtual Wireless Networks with Imperfect NSI</i>	
Yegui Cai (Carleton University, Canada), F. Richard Yu (Carleton University, Canada), Chengchao Liang (Carleton University, Canada)	4((,

<i>Distributed Interference-Aware Energy-Efficient Resource Allocation for Device-to-Device Communications Underlying Cellular Networks</i>	
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<i>Pulse-level Beam-switching MAC with Energy Control in Picocell Terahertz Networks</i>	
Jian Lin (Georgia Institute of Technology, USA), Mary Ann Weitnauer (Georgia Institute of Technology, USA)	4(* \$
<i>Activation of Nomadic Relay Nodes in Dynamic Interference Environment for Energy Saving</i>	
Zhe Ren (BMW Group Research and Technology, Germany), Slawomir Stanczak (Fraunhofer Heinrich Hertz Institute & Technische Universität Berlin, Germany), Peter Fertl (BMW Group Research and Technology, Germany)	4(**
<i>Disjoint Path Protection in Multi-Hop Wireless Networks with Interference Constraints</i>	
Gregory Kuperman (MIT, USA), Eytan Modiano (MIT, USA)	4(+&
<i>QoS-Aware Energy-Efficient Multicast for Multi-view Video in Indoor Small Cell Networks</i>	
Quanxin Zhao (University of Electronic Science and Technology of China, P.R. China), Yuming Mao (SCIE, P.R. China), Supeng Leng (University of Electronic Science and Technology of China, P.R. China), Yuming Jiang (Norwegian University of Science and Technology (NTNU), Norway)	4(+,

WiMAX, LTE, WMAN, and Other Emerging Broadband Wireless Networks

<i>Cooperative-MIMO for Vehicular Relaying</i>	
Mohamed F. Feteiha (Queens University, Canada), Hossam S. Hassanein (Queen's University, Canada)	B #5
<i>Buffering-Aided Resource Allocation for Type I Relay in LTE-Advanced Cellular Networks</i>	
Long Wang (Xi'an Jiaotong University, P.R. China), Qinghe Du (Xi'an Jiaotong University, P.R. China), Pinyi Ren (Xi'an Jiaotong University, P.R. China), Li Sun (Xi'an Jiaotong University, P.R. China), Yichen Wang (Xi'an Jiaotong University, P.R. China)	4(, (
<i>IISRA: Inter-cell Interference Separation-based Resource Allocation for VoLTE</i>	
Byungkab Jo (Seoul National University & Korea Electronic Power Corporation, Korea), Taejun Park (Seoul National University, Korea), Wonbo Lee (Seoul National University, Korea), Bo Ryu (EpiSys Science, USA), Sunghyun Choi (Seoul National University, Korea)	4(- \$
<i>Auction-Based Relay Assignment in Cooperative Communications</i>	
Bin Cao (University of Electronic Science and Technology of China, P.R. China), Gang Feng (University of Electronic Science and Technology of China, P.R. China), Yun Li (ChongQing University of Posts and Telecommunications of China, P.R. China), Mahmoud Daneshmand (Howe School of Technology Management Stevens Institute of Technology, USA)	4(- *
<i>Retransmission Mechanism with Probabilistic Network Coding in Wireless Networks</i>	
Yun Li (ChongQing University of Posts and Telecommunications of China, P.R. China), Yangyang Wu (Chongqing University of Posts and Telecommunications, P.R. China), Bin Cao (University of Electronic Science and Technology of China, P.R. China), Li Qiao (Chongqing University of Posts and Telecommunications, P.R. China), Weiyi Zhang (AT&T Labs Research, USA), Weiwen Tang (Sichuan Communication Research Planning & Designing Co., Ltd., P.R. China)	4) \$&
<i>Mobile Relay Deployment Based on Markov chains in WiMAX Networks</i>	
Zhuofan Liao (Changsha University of Science & Technology, P.R. China), Xi Zhang (Texas A&M University, ECE Department, USA), Chaochao Feng (School of Computer, National University of Defense Technology, P.R. China)	4) \$,

Femtocell Networks

Cognitive Femtocell Market: How to Price?

Chunxiao Jiang (Tsinghua University, Beijing, P.R. China), Yan Chen (University of Maryland, College Park, USA), K. J. Ray Liu (University of Maryland, USA), Yong Ren (Tsinghua University, Beijing, P.R. China) 4) %

Multi-leader Multi-follower Stackelberg Game among Wi-Fi, Small Cell and Macrocell Networks

Huaqing Zhang (University of Houston, USA), Mehdi Bennis (Centre of Wireless Communications, University of Oulu, Finland), Luiz A. DaSilva (Virginia Polytechnic Institute and State University & Trinity College Dublin, Ireland), Zhu Han (University of Houston, USA) 4) &\$

Analysis of Multi-tier Uplink Cellular Networks with Energy Harvesting and Flexible Cell Association

Ahmed Hamdi Sakr (University of Manitoba, Canada), Ekram Hossain (University of Manitoba, Canada) 4) &

Data Offloading in Two-tier Networks: A Contract Design Approach

Zilong Zhou (Shanghai Jiao Tong University, P.R. China), Xinxin Feng (Shanghai Jiao Tong University, P.R. China), Xiaoying Gan (Shanghai Jiao Tong University, P.R. China), Feng Yang (Shanghai Jiaotong University, P.R. China), Xiaohua Tian (Shanghai Jiao Tong University, P.R. China), Xinbing Wang (Shanghai Jiaotong University, P.R. China) 4) ' %

MobiCacher: Mobility-Aware Content Caching in Small-Cell Networks

Yang Guan (University of Delaware, USA), Yao Xiao (University of Delaware, USA), Hao Feng (University of Delaware, USA), Chien-Chung Shen (University of Delaware & Department of Computer and Information Sciences, USA), Len Cimini (University of Delaware, USA) 4) ' +

Adaptive Modulation and Coding for QoS-based Femtocell Resource Allocation with Power Control

Rima Hatoum (Laboratoire Informatique de Paris6-LIP6/Université de Pierre et Marie Curie UPMC, France), Abbas Hatoum (LIP6/Université de Pierre et Marie Curie UPMC, France), Alaa Ghaith (Faculty of Sciences I, Lebanese University, Lebanon), Guy Pujolle (University Pierre et Marie Curie - Paris 6, France) 4) ('

Vehicular Networks

Capacity Analysis for Urban Vehicular Ad Hoc Networks with Graph-Theory Based Construction

Yan Huang (Heilongjiang University, P.R. China), Min Chen (Huazhong University of Science and Technology, P.R. China), Zhipeng Cai (Georgia State University, USA), Xin Guan (Heilongjiang University, P.R. China), Cong Liu (Sun Yat-sen University, P.R. China), Tomoaki Ohtsuki (Keio University, Japan) B#5

User Cooperation and Incentive Schemes

Detecting Greedy Behavior By Linear Regression And Watchdog In Vehicular Ad Hoc Networks

Mohamed Nidhal Mejri (University of Paris 13 & Paris, France), Jalel Ben-Othman (University of Paris 13, France)) \$' &

Vehicular Networks

A Semi-distributed V2V Fast Charging Strategy Based on Price Control

Miao Wang (University of Waterloo, Canada), Muhammad Ismail (Texas A&M University at Qatar, Qatar), Ran Zhang (University of Waterloo, Canada), Sherman Shen (University of Waterloo, Canada), Erchin Serpedin (Texas A&M University, USA), Khalid A. Qaraqe (Texas A&M University at Qatar, USA) 4)) \$

<i>V2V Data Dissemination with Network Coding in Two-Way Road Networks</i>	
Fang Liu (Shanghai Jiao Tong University, P.R. China), Zhiyong Chen (Shanghai Jiao Tong University, P.R. China), Fei Ye (University Washington, USA), Bin Xia (Shanghai Jiao Tong University, P.R. China), Hui Liu (Shanghai JiaoTong University, P.R. China)	4691
<i>Sensing Phone Use of Motorcycle Drivers</i>	
Jyh-Cheng Chen (National Chiao Tung University, Taiwan), Chun-Feng Wu (Academia Sinica, Taiwan), Wei-Ho Chung (Academia Sinica, Taiwan), Ping-Fan Ho (National Chiao Tung University, Taiwan)	4)) *
<i>Modeling and Verification Tools for jamming attacks in VANETS</i>	
Jalel Ben-Othman (University of Paris 13, France), Lynda Mokdad (Université de Paris 12 & Laboratoire LACL, France)	4) * &

Routing

<i>A Cooperative Routing Protocol Based on Geographic Information for Two-Way Amplify-and-Forward Relay Networks</i>	
Chin-Liang Wang (National Tsing Hua University, Taiwan), Ting-Nan Cho (National Tsing Hua University, Taiwan), Po-Hsiang Yu (National Tsing Hua University, Taiwan)	4) +(
<i>A Lightweight Ring-based Routing Protocol for Wireless Sensor Networks with Mobile Sinks</i>	
Sheng Yu (Graduate University of China Academy of Science, P.R. China), Dezhong Shang (University of the Chinese Academy of Sciences, P.R. China), Zheng Yao (Graduate University of the Chinese Academy of Sciences, P.R. China), Baoxian Zhang (University of the Chinese Academy of Sciences, P.R. China), Cheng Li (Memorial University of Newfoundland, Canada)	4) , \$
<i>Evolving to 5G: A Fast and Near-optimal Request Routing Protocol for Mobile Core Networks</i>	
Jun He (University of New Brunswick, Canada), Wei Song (University of New Brunswick, Canada)	4) , *
<i>Joint Channel Assignment and Opportunistic Routing for Maximizing Throughput in Cognitive Radio Networks</i>	
Yang Qin (Harbin Institute of Technology, Shenzhen Graduate School, P.R. China), Xiaoxiong Zhong (Harbin Institute of Technology, P.R. China), Yuanyuan Yang (Stony Brook University, USA), Yanlin Li (Harbin Institute of Technology, P.R. China), Li Li (HIT Shenzhen Graduate School, P.R. China)	4) - &
<i>Quadtree-based Optimal Path Routing with the Smallest Routing Table Size</i>	
Tingting Wu (University of Science and Technology of China, P.R. China), Chi Zhang (University of Science and Technology of China, P.R. China), Nenghai Yu (University of Science and Technology of China, P.R. China), Miao Pan (Texas Southern University, USA)	4) - ,
<i>Deactivation-Controlled Epidemic Routing in Disruption Tolerant Networks with Multiple Sinks</i>	
Huawei Huang (The University of Aizu, Japan), Song Guo (The University of Aizu, Japan), Peng Li (The University of Aizu, Japan), Toshiaki Miyazaki (The University of Aizu, Japan)	4* \$(

Performance Analysis and Optimization

<i>Performance Analysis of the 802.11aa Intra-Access Category Prioritization under Saturated Condition</i>	
Yijing Zeng (University of California, Santa Barbara, USA)	4* %\$
<i>Throughput Analysis and Routing Security Discussions of Mobile Access Coordinated Wireless Sensor Networks</i>	
Mai Abdelhakim (Michigan State University, USA), Jian Ren (Michigan State University, USA), Tongtong Li (Michigan State University, USA)	4* %*
<i>Heterogeneous Statistical QoS Provisioning for Downlink Transmissions Over Mobile Wireless Cellular Networks</i>	
Wenchi Cheng (Xidian University, P.R. China), Xi Zhang (Texas A&M University, ECE Department, USA), Hailin Zhang (Xidian University, P.R. China)	4* &&

<i>MPCS: A Mobility/Popularity-Based Caching Strategy for Information-Centric Networks</i>	
Tianming Wei (University of Victoria, Canada), Le Chang (University of Victoria, Canada), Boyang Yu (University of Victoria, Canada), Jianping Pan (University of Victoria, Canada)	46&-
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Ge Xiaohu (Huazhong University of Science & Technology, P.R. China), Bin Yang (Huazhong University of Science & Technology, P.R. China), Junliang Ye (Huazhong University of Science & Technology, P.R. China), Guoqiang Mao (The University of Technology, Sydney, Australia), Qiang Li (Huazhong University of Science and Technology, P.R. China)	4* ')
<i>A Slot-Asynchronous MAC Protocol Design for Blind Rendezvous in Cognitive Radio Networks</i>	
Xingya Liu (University of North Carolina at Charlotte, USA), Linda Jiang Xie (University of North Carolina at Charlotte, USA)	4* (%

Heterogeneous Networks

<i>An Application-Level Approach for Seamless Mobility Support across Heterogeneous Networks</i>	
Yifan Yu (Intel Labs China, P.R. China)	4* (+
<i>Dynamic Network Selection in HetNets: A Social-Behavioral (SoBe) Approach</i>	
Yang Cao (Huazhong University of Science and Technology, P.R. China), Dongliang Duan (University of Wyoming, USA), Xiang Cheng (Peking University, P.R. China), Liuqing Yang (Colorado State University, USA), Jiaolong Wei (Huazhong University of Science and Technology, P.R. China)	4*) '
<i>Downlink and Uplink Splitting User Association in Two-tier Heterogeneous Cellular Networks</i>	
Zebing Feng (Beijing University of Posts and Telecommunications & Wireless Technology Innovation Lab, P.R. China), Zhiyong Feng (Beijing University of Posts and Telecommunications, P.R. China), Wei Li (University of Victoria, Canada), Wenping Chen (Beijing University of Posts and Telecommunications, P.R. China)	4*) -
<i>On Minimum-Collisions Assignment in Heterogeneous Self-Organizing Networks</i>	
Mathew Pradeep Goonewardena (University of Quebec & École de Technologie Supérieure, Canada), Hoda Akbari (Simon Fraser University (SFU), Canada), Wessam Ajib (Université du Québec à Montréal, Canada), Halima Elbiaze (University of Quebec at Montreal, Canada)	4* **)
<i>A Software-Defined Network based Vertical Handoff Scheme for Heterogeneous Wireless Networks</i>	
Li Qiang (University of Tsukuba, Japan), Jie Li (University of Tsukuba, Japan), Changcheng Huang (Carleton University, Canada)	4* + %
<i>Downlink Capacity Optimization in a Heterogeneous Home Area Network with Application to Smart Grid</i>	
Zhuo Li (The University of Texas at Arlington, USA), Qilian Liang (University of Texas at Arlington, USA)	4* + +

Resource Allocation

<i>Robust Resource Allocation for Predictive Video Streaming Under Channel Uncertainty</i>	
Ramy Atawia (Queen's University, Canada), Hatem Abou-zeid (Queen's University, Canada), Hossam S. Hassanein (Queen's University, Canada), Aboelmagd Noureldin (RMC Canada, Canada)	4* , ')
<i>Joint Resource Allocation and Admission Control in OFDMA-Based Multi-tier Cellular Networks</i>	
Amr Abdelnasser (University of Manitoba, Canada), Ekram Hossain (University of Manitoba, Canada)	4* , -
<i>QoE-aware Mobile Association and Resource Allocation Over Wireless Heterogeneous Networks</i>	
Yiran Xu (Utah State University, USA), Rose Qingyang Hu (Utah State University, USA), Lili Wei (Intel Corporation, USA), Geng Wu (Intel Corporation, USA)	4* -)

Delay Minimization by Optimizing Antenna Allocation in SIMO System

Tao Huang (Nanjing University, P.R. China), Baoliu Ye (Nanjing University, P.R. China), Song Guo (The University of Aizu, Japan), Sanglu Lu (Nanjing University, P.R. China), Toshiaki Miyazaki (The University of Aizu, Japan) 4+&\$

Distributed Energy-Efficient Resource Allocation with Fairness in Wireless Multicell OFDMA Networks

Shengrong Bu (University of Glasgow, United Kingdom), F. Richard Yu (Carleton University, Canada) 4+,\$

Channel-Hopping on Multiple Channels for Full Rendezvous Diversity in Cognitive Radio Networks

Utku Tefek (National University of Singapore, Singapore), Teng Joon Lim (National University of Singapore, Singapore) 4+%(

WLAN, WPAN, and Other Home/Personal Networking Technologies I

An ElGamal-Based Efficient and Privacy-Preserving Data Aggregation Scheme for Smart Grid

Xiaolei Dong (Shanghai Jiao Tong University, P.R. China), Jun Zhou (Shanghai Jiao Tong University, P.R. China), Khalid Alharbi (Northern Borders University, Saudi Arabia), Xiaodong Lin (University of Ontario Institute of Technology, Canada), Zhenfu Cao (Shanghai Jiao Tong University, P.R. China) 4+&\$

Dynamic Bandwidth Control MAC Protocol for CWPAN/IEEE 802.11aj Networks

Qian Chen (Institute for Infocomm Research, Singapore), Xiaoming Peng (Institute for InfoComm Research, Singapore), Khiam Boon Png (Institute for InfoComm Research, Singapore), David Tung Chong Wong (Institute for Infocomm Research, Singapore), Francois Chin (Institute for InfoComm Research, Singapore) 4+&*

Medium Access Control for a Wireless LAN with a Full Duplex AP and Half Duplex Stations

Aimin Tang (Shanghai Jiao Tong University, P.R. China), Xudong Wang (Shanghai Jiao Tong University, P.R. China) 4+' &

Power-Controlled Multiple Access with a Queue-Dependent Backoff Threshold

Jeffrey Mounzer (Stanford University, USA), Kevin Schubert (Stanford University, USA), Nicholas Bambos (Stanford University, USA), Andrea Goldsmith (Stanford University, USA) 473,

Joint Power and Channel Allocation for Multimedia Content Delivery using Millimeter Wave in Smart Home Networks

Bojiang Ma (University of British Columbia, Canada), Binglai Niu (University of British Columbia, Canada), Zehua Wang (University of British Columbia, Canada), Vincent W.S. Wong (University of British Columbia, Canada) 4+()

Vertex Multi-coloring Scheduling Algorithm for Concurrent Transmission in 60 GHz Networks

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Cellular Networks I

Stochastic analysis of a cellular network with mobile relays

Yangyang Chen (Telecom Bretagne, France), Philippe Martins (Telecom Paristech, France), Laurent Decreusefond (Telecom ParisTech & CNRS LTCI, France), Feng Yan (Telecom Bretagne, France), Xavier Lagrange (Institut Mines Telecom / Telecom Bretagne & IRISA, France) 4+) ,

Optimal Power Allocation for Full-Duplex D2D Communications Over Wireless Cellular Networks

Wenchi Cheng (Xidian University, P.R. China), Xi Zhang (Texas A&M University, ECE Department, USA), Hailin Zhang (Xidian University, P.R. China) 4+* (

Trade-offs in Sum-Rate Maximization and Fairness in Relay-Enhanced OFDMA-based Cellular Networks

- Davut Incebacak (Middle East Technical University, Turkey), Halim Yanikomeroglu (Carleton University, Canada), Bulent Tavli (TOBB University of Economics and Technology, Turkey) 4++\$
- Full Duplex: Coming Into Reality in 2020?*
- Shuangfeng Han (China Mobile, Hong Kong), Chih-Lin I (China Mobile Research Institute, P.R. China), Zhikun Xu (China Mobile Research Institute, P.R. China), Chengkang Pan (China Mobile Research Institute, P.R. China), Zhengang Pan (University of Hong Kong, Hong Kong) 4++*
- Sparse Code Multiple Access: An Energy Efficient Uplink Approach for 5G Wireless Systems*
- Shunqing Zhang (Huawei Technologies, Co. Ltd., P.R. China), Xiuqiang Xu (Huawei Technologies Co., Ltd., P.R. China), Lei Lu (Huawei Technologies Co., Ltd., P.R. China), Yiqun Wu (Huawei, P.R. China), Gaoning He (Huawei Technologies, P.R. China), Yan Chen (Huawei, P.R. China) 47, &
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- Wolfgang Kiess (DOCOMO Euro-Labs, Germany), Ashiq Khan (NTT DOCOMO, Inc. & DOCOMO R&D Center, Japan) 4+, ,

WLAN, WPAN, and Other Home/Personal Networking Technologies II

Contention Window Adaptation using the Busy-Idle Signal in 802.11 WLANs

- Michael Krishnan (University of California, Berkeley, USA), Shicong Yang (University of California, Berkeley, USA), Avidesh Zakhori (University of California at Berkeley, USA) 4+- (
- Privacy-Preserving Location Authentication in WiFi with Fine-Grained Physical Layer Information*
- Yingjie Chen (Hong Kong University of Science and Technology, Hong Kong), Wei Wang (Hong Kong University of Science and Technology, Hong Kong), Qian Zhang (Hong Kong University of Science and Technology, Hong Kong) (, &+
- Multi-Path Transport over Heterogeneous Wireless Networks: Does it really pay off?*
- Simone Ferlin (University of Oslo & Simula Research Laboratory, Norway), Thomas Dreibholz (Simula Research Laboratory, Norway), Ozgu Alay (Simula Research Laboratory, Norway) (, \$+
- Concurrent Transmission Scheduling for WPANs with Adaptive Data Rate*
- Maggie Cheng (Missouri University of Science and Technology, USA), Quanmin Ye (Missouri University of Science and Technology, USA), Lin Cai (University of Victoria, Canada) (, %
- Distributed Timely-Throughput Optimal Scheduling for Wireless Networks*
- Shuang Xia (Wichita State University, USA), Pu Wang (Wichita State University, USA), Zhi Sun (State University of New York at Buffalo, USA) (, &\$
- On Optimum Time Division Multiple Access for Energy Harvesting Channels*
- Juan Liu (NCSU, USA), Huaiyu Dai (NC State University, USA), Wei Chen (Tsinghua University, P.R. China) (, \$%

Cellular Networks II

Joint Transmission Scheduling and Power Allocation in CoMP via Geometric Programming

- Shu Fu (UESTC as well as TJU, P.R. China), Bin Wu (Tianjin University, P.R. China), Hong Wen (UESTC, P.R. China), Pin-Han Ho (University of Waterloo, Canada) B#5
- 3D Beamforming for Capacity Improvement in Macrocell-Assisted Small Cell Architecture*
- Bo Yu (Colorado State University, USA), Liuqing Yang (Colorado State University, USA), Hiroyuki Ishii (DOCOMO Innovations, Inc, Japan) 4, ' '
- Expediting D2D Discovery by Using Temporary Discovery Resource*
- Seungil Park (Seoul National University, Korea), Sunghyun Choi (Seoul National University, Korea) 4, ' -
- On the Selection of Best Devices for Cooperative Wireless Content Delivery*
- Bidushi Barua (University of Oulu, Finland), Zaheer Khan (University of Oulu, Finland), Zhu Han (University of Houston, USA), Matti Latva-aho (UoOulu, Finland), Marcos Katz (University of Oulu, Finland) 4, ()

Mobile Small Cell Deployment for Next Generation Cellular Networks

Shih-Fan Chou (National Taiwan University, Taiwan), Te-Chuan Chiu (National Taiwan University, Taiwan), Ya-Ju Yu (Institute for Information Industry, Taiwan), Ai-Chun Pang (National Taiwan University, Taiwan) 4,) &

Reduced Complexity Precoding and Scheduling Algorithms for Full-Dimension MIMO Systems

Yan Xin (Samsung Research America- Dallas, USA), Young-Han Nam (Samsung Research America, USA), Yang Li (University of Texas at Dallas, USA), Jianzhong Zhang (Samsung Telecommunications America, USA) 4,),

Emerging Wireless Technologies

On Large Throughputs in High Density Enterprise Wireless LAN(s)

Mridula Singh (Xerox Research Centre India & IIIT DELHI, India), Sanjit Kaul (IIIT Delhi, India), Pravesh Biyani (IIIT Delhi, India) (, * (

Power Synergy to Enhance DCI Reliability for OFDM-based Mobile System Optimization

Min Chen (Peking University, P.R. China), Anpeng Huang (Peking University, P.R. China), LinZhen Xie (Peking University, P.R. China) (, +\$

C2M: Mobile Data Offloading to Mesh Networks

Apostolos Apostolaras (University of Thessaly & The Centre for Research & Technology Hellas, CERTH, Greece), George Iosifidis (CERTH & University of Thessaly, Greece), Kostas Chounos (University of Thessaly, Greece), Thanasis Korakis (Polytechnic Institute of New York University, USA), Leandros Tassioulas (Yale University, USA) (, ++

Rise of Mini-Drones: Applications and Issues

Zhongli Liu (University of Massachusetts Lowell, USA), Zupei Li (University of Massachusetts Lowell, USA), Xinwen Fu (University of Massachusetts Lowell, USA), Raptis Ioannis (University of Massachusetts Lowell, USA), Benyuan Liu (University of Massachusetts Lowell, USA), Kui Ren (State University of New York at Buffalo, USA) B#5

Distributed On-demand MAC Scheduling for Underwater Acoustic Networks

Yibo Zhu (Google, USA), Son N Le (University of Connecticut, USA), Zheng Peng (University of Connecticut, USA), Jun-Hong Cui (University of Connecticut, USA) (, , (

Mobile Trace Inference Based on Tensor Voting

Erte Pan (University of Houston, USA), Miao Pan (Texas Southern University, USA), Zhu Han (University of Houston, USA), Vernaldo Wright (Texas Southern University, USA) (, - %

Resource Management and Admission Control I

HOL Delay Based Scheduling in Wireless Networks with Flow-Level Dynamics

Yi Chen (University of Victoria, Canada), Xuan Wang (University of Victoria, Canada), Lin Cai (University of Victoria, Canada) (, -,

Incentive Mechanism Design for Crowdsourcing-Based Cooperative Transmission

Qinglei Kong (Harbin Institute of Technology Shenzhen Graduate School, P.R. China), Jia Yu (Harbin Institute of Technology Shenzhen Graduate School, P.R. China), Rongxing Lu (Nanyang Technological University, Singapore), Qinyu Zhang (Shenzhen Graduate School, Harbin Institute of Technology, P.R. China) (- -\$ (

Cheating in Matching of Device to Device Pairs in Cellular Networks

Yunan Gu (University of Houston, USA), Yanru Zhang (University of Houston, USA), Miao Pan (Texas Southern University, USA), Zhu Han (University of Houston, USA) (- -%\$

SARA: A Service-Aware Resource Allocation Scheme for Device-to-Device Communication Underlaying Cellular Networks

Biwei Chen (Southeast University, P.R. China), Jun Zheng (Southeast University, P.R. China), Yuan Zhang (Southeast University, P.R. China), Hidekazu Murata (Kyoto University, Japan) (- -%*

On Joint Optimal Placement of Access Points and Partially Overlapping Channel Assignment for Wireless Networks

Wei Zhao (Tohoku University, Japan), Zubair Fadlullah (Tohoku University, Japan), Hiroki Nishiyama (Tohoku University, Japan), Nei Kato (Tohoku University, Japan), Kiyoshi Hamaguchi (NICT, Japan) (- &&

Service Time Prediction Based Dynamic Resource Allocation for Device-to-Device Communication Underlying Cellular Networks

Jun Zheng (Southeast University, P.R. China), Renpeng Chen (Southeast University, P.R. China), Yuan Zhang (Southeast University, P.R. China) (- &

Resource Management and Admission Control II

Provisioning Green Energy for Small Cell BSs

Tao Han (New Jersey Institute of Tech, USA), Nirwan Ansari (NJIT, USA) (- ')

Asymptotic Behavior of Ultra-Dense Cellular Networks and Its Economic Impact

Ji Hong Park (Yonsei University, Korea), Seong-Lyun Kim (Yonsei University, Korea), Jens Zander (KTH Royal Institute of Technology, Sweden) (- (%

Distributed Resource and Power Allocation for Device-to-Device Communications Underlying Cellular Network

Xue Chen (Utah State University, USA), Rose Qingyang Hu (Utah State University, USA), Yi Qian (University of Nebraska–Lincoln, USA) (- (+

MoRule: Optimized Rule Placement for Mobile Users in SDN-enabled Access Networks

He Li (University of Aizu, Japan), Peng Li (The University of Aizu, Japan), Song Guo (The University of Aizu, Japan) (-) '

Distributed Resource Allocation in Full-duplex Relaying Networks with Wireless Virtualization

Gang Liu (Beijing University of Posts and Telecommunications, P.R. China), F. Richard Yu (Carleton University, Canada), Hong Ji (Beijing University of Posts and Telecommunications, P.R. China), Victor CM Leung (The University of British Columbia, Canada) (-) -

Predictive Allocation of Resources in the LTE Uplink Based on Maximum Likelihood Estimation of Event Propagation Characteristics for M2M Applications

Jason Brown (University of Newcastle, Australia), Jamil Y Khan (The University of Newcastle, Australia) (- *)

Wireless Computing and Scheduling

You Better Be Honest: Discouraging Free-Riding and False-Reporting in Mobile Crowdsourcing

Xiang Zhang (Arizona State University, USA), Guoliang Xue (Arizona State University, USA), Ruozhou Yu (Arizona State University, USA), Dejun Yang (Colorado School of Mines, USA), Jian Tang (Syracuse University, USA) (- + %

Joint Cloud Computing and Wireless Networks Operations: A Game Theoretic Approach

Zhiyuan Yin (Carleton University, Canada), F. Richard Yu (Carleton University, Canada), Shengrong Bu (University of Glasgow, United Kingdom) (- + +

BIRD-VNE: Backtrack-Avoidance Virtual Network Embedding in Polynomial Time

Sherif Abdelwahab (Oregon State University, USA), Bechir Hamdaoui (Oregon State University, USA), Mohsen Guizani (QU, USA) (- , '

Cloud Server Job Selection and Scheduling in Mobile Computation Offloading

Jianting Yue (McMaster University, Canada), Dongmei Zhao (McMaster University, Canada), Terence D. Todd (McMaster University, Canada) (- - \$

iCoMe: A Novel Incentivized Cooperative Mobile Resource Management Mechanism

Hamed Shah-Mansouri (University of British Columbia, Canada), Vincent W.S. Wong (University of British Columbia, Canada) (- - *

Sheng Yu (Graduate University of China Academy of Science, P.R. China), Jie Hao (University of the Chinese Academy of Sciences, P.R. China), Baoxian Zhang (University of the Chinese Academy of Sciences, P.R. China), Cheng Li (Memorial University of Newfoundland, Canada)) \$\$&

Completion Time Reduction in Instantly Decodable Network Coding Through Decoding Delay Control

Ahmed Douik (King Abdullah University of Science and Technology (KAUST), Saudi Arabia),
Sameh Sorour (King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia),
Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi
Arabia), Tareq Y. Al-Naffouri (King Abdullah University of Science and Technology, USA)) \$\$.

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Game-Theoretic Source Selection and Power Control for Quality-Optimized Wireless Multimedia Device-to-Device Communications

Qin Wang (Nanjing University of Posts and Telecommunications, P.R. China), Wei Wang (San Diego State University, USA), Shi Jin (Southeast University, P.R. China), Hongbo Zhu (Nanjing University of Posts and Telecommunications, P.R. China), Naitong Zhang (Communication Research Center, Harbin Institute of Technology, P.R. China) (*)

A Novel Double-threshold User Division Method Based on Channel Isolation and Scheduling for Downlink CoMP

Jian Liu (University of Electronic Science and Technology of China, P.R. China), Xuchao Feng (University of Science and Technology Beijing, P.R. China), Chonggang Wang (InterDigital Communications, USA), Xiumei Yang (Shanghai Research Center for Wireless Communications, P.R. China)) \$&*

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