Table of Contents

2016 IEEE International Conference on Communications (ICC)

ICC'16 AHSN: IEEE ICC 2016 Ad-hoc and Sensor Networking Symposium

Energy-Efficient Networks I

	CoSense: Interference Resilient ZigBee Detection in Heterogeneous Wireless Network	
	Sangsoon Lim (Software R&D Center & Samsung Electronics, Korea), Daehyun Ban (Stanford University, USA), Woojin Park (Software R&D Center & Samsung Electronics, Korea), Chong-kwon Kim (Seoul National University, Korea)	1
	EAFD, a Failure Detector for clustered WSN	
	Haroun Benkaouha (LSI Laboratory & USTHB University, Algeria), Abdelkrim Abdelli (USTHB University- Algiers, Algeria), Guerroumi Mohamed (University of USTHB, Algeria), Jalel Ben-Othman (University of Paris 13, France), Lynda Mokdad (Université de Paris 12 & Laboratoire LACL, France)	7
	Optimal Beacon Scheduling for Low-duty-cycle Sensor Networks	
	Yongrui Chen (University of Chinese Academy of Sciences, P.R. China), Yulong Xing (University of Chinese Academy of Sciences, P.R. China), Weidong Yi (University of Chinese Achedemy Sciences, P.R. China)	13
	Lifetime Maximization for Sensor Networks with Wireless Energy Transfer	
	Rong Du (KTH Royal Institute of Technology, Sweden), Carlo Fischione (KTH, Sweden), Ming Xiao (Royal Institute of Technology, Sweden)	20
	Packet Size Optimization for Wireless Nanosensor Networks in the Terahertz Band	
	Pedram Johari (University at Buffalo (SUNY), USA), Josep M Jornet (University at Buffalo, USA)	26
Distribute	d Algorithms	
	CARRE: Cellular Automaton based Redundant Readers Elimination in RFID Networks Nafiul Rashid (Islamic University of Technology, Bangladesh), Salimur Choudhury (Algoma University, Canada), Kai Salomaa (School of Computing Queen's University Canada, Canada)	32
	An Iterative Method for Strong Barrier Coverage under Practical Constraints	
	Xiaoyun Zhang (Iowa State University, USA), Mathew L. Wymore (Iowa State University, USA), Daji Qiao (Iowa State University, USA)	38
	Hypergraph Based Resource Allocation for Cross-cell Device-to-Device Communications	
	Hongliang Zhang (Peking University, P.R. China), Yusheng Ji (National Institute of Informatics, Japan), Lingyang Song (Peking University, P.R. China), Zhu Han (University of Houston, USA)	45
	Graph Colouring Technique for Efficient Channel Allocation in Cognitive Radio Networks	
	Bhagyashri Tushir (NSIT, University of Delhi, India), Sanjay Dhurandher (NSIT, University of Delhi, India), Isaac Woungang (Ryerson University, Canada), Mohammad S. Obaidat (Fordham University, USA), Vinesh Teotia (Jawahar Lal Nehru University, New Delhi, India)	51
	Channel Device-to-Device Communication Hideki Kuribayashi (Tohoku University, Japan), Katsuya Suto (University of Waterloo, Canada), Hiroki Nishiyama (Tohoku University, Japan), Nei Kato (Tohoku University, Japan), Kimihiro Mizutani (NTT Network Innovation Labs., Japan), Takeru Inoue (NTT Network	
	Innovation Labs., Japan), Osamu Akashi (NTT Network Innovation Labs., Japan)	56

ICC'16 CISS: IEEE ICC 2016 Communication and Information Systems Security **Symposium**

Security of Cyber-physical Systems

Atlantic University, USA) Efficient Prevention Technique for False Data Injection Attack in Smart Grid Asmaa R Abdallah (University of Waterloo, Canada), Sherman Shen (University of Waterloo, Canada)	
EDAT: Efficient Data Aggregation without TTP for Privacy-Assured Smart Metering Jianbing Ni (University of Waterloo, Canada), Kuan Zhang (University of Waterloo, Canada), Xiaodong Lin (University of Ontario Institute of Technology, Canada), Sherman Shen (University of Waterloo, Canada)	
Smart Meter Data Aggregation Against Wireless Attacks: A Game-Theoretic Approach Yang Cao (Beijing University of Posts & Telecommunications & Guangdong Electric Power Design Institute (GEDI), P.R. China), Dongliang Duan (University of Wyoming, USA), Liuqing Yang (Colorado State University, USA), Zhi Sun (State University of New York at Buffalo, USA), Haochuan Zhang (Guangdong University of Technology, P.R. China), Rong Yu (Guangdong University of Technology, P.R. China)	
Efficient and Secure Message Authentication in Cooperative Driving: A Game-Theoretic Approach Lei Gao (Shanghai Jiaotong University, P.R. China), Na Ruan (Shanghai Jiao Tong University,	
P.R. China), Haojin Zhu (Shanghai Jiao Tong University, P.R. China) QRM: IEEE ICC 2016 - Communication QoS, Reliability and Modeling um	

ICC'16 C Symposiu

Networking & Transporting Techniques

Routing, Core and Spectrum Assignment based on Connected Component Labelling for SDM Optical Networks	
Pedro Moura (State University of Campinas, Brazil), Nelson L. S. da Fonseca (State University of Campinas, Brazil)	92
A Transport Layer Approach to Improve Energy Efficiency	
Muhammad Usman (University of Trento, Italy), Dzmitry Kliazovich (University of Luxembourg, Luxembourg), Fabrizio Granelli (University of Trento, Italy), Pascal Bouvry (University of Luxembourg, Luxembourg), Piero Castoldi (Scuola Superiore Sant'Anna, Italy)	98
10 Gbps Optical Burst Mode Receiver with Fast Response and High Stability	
Adibah Binti Mazwar (Tokyo University of Technology, Japan), Takashi Kuriyama (Tokyo University of Technology, Japan), Hiromi Ueda (Tokyo University of Technology, Japan)	104
Impact of Positioning Error on Achievable Spectral Efficiency in Database-aided Networks	
Oluwakayode Onireti (University of Surrey, United Kingdom), Ali Imran (University of Oklahoma, USA), Muhammad Ali Imran (University of Surrey, United Kingdom), Rahim Tafazolli (University of Surrey, United Kingdom)	110
Outage Probability Analysis for Device-to-Device System	
Kazi Mohammed Saidul Huq (Instituto de Telecomunicações, Portugal), Shahid Mumtaz (Instituto de Telecomunicações, Portugal), Jonathan Rodriguez (Instituto de Telecomunicações, Portugal)	116

Communication QoS, Reliability and Modeling (Interactive)

Network Function Consolidation in Service Function Chaining Orchestration	
Tao Wen (University of Electronic Science and Technology of China, P.R. China), Hongfang Yu (University of Electronic Science and Technology of China, P.R. China), Gang Sun (University of Electronic Science and Technology of China, P.R. China), Liu Liu (University of Electronic Science and Technology of China, P.R. China)	121
Handoff Performance Improvements in a Network Virtualization based Integrated Train-Ground	121
Communication System	
Li Zhu (Carleton University, Canada), F. Richard Yu (Carleton University, Canada), Hongwei Wang (Beijing Jiaotong University, P.R. China), Tao Tang (Beijing Jiaotong University, P.R. China), Bin Ning (State Key Laboratory of Rail Traffic Control and Safety, P.R. China)	127
Multi-stage Network Recovery considering Traffic Demand After a Large-scale Failure	
Kouichi Genda (Nihon University, Japan), Shohei Kamamura (NTT, Japan)	132
A Prediction Approach for Correlated Failures in Distributed Computing Systems	
Weiwei Zheng (Beijing University of Posts and Telecommunications, P.R. China), Wang Zhili (Beijing University of Posts and Telecommunications, P.R. China), Haoqiu Huang (Beijing University of Posts and Telecommunications, P.R. China), Luoming Meng (Beijing University of Posts and Telecommunications, P.R. China), Qiu Xue-song (Beijing University of Posts and	
Telecommunications, P.R. China)	138
Spectrum Sensing A Comprehensive Sensor Selection Method based on Energy Constraints for Cooperative	
Spectrum Sensing	
Maryam Monemian (Isfahan University of Technology, Iran), Mehdi Mahdavi (Isfahan University of Technology, Iran), Mohammad Javad Omidi (Isfahan University of Technology, Iran)	144
Multi-centers Cooperative Estimation based Fast Spectrum Sensing	
Sai Huang (Beijing University of Posts and Telecommunications, P.R. China), Zhiyong Feng (Beijing University of Posts and Telecommunications, P.R. China), Yuanyuan Yao (Beijing University of Posts and Telecommunications, P.R. China), Yifan Zhang (Beijing University of Posts and Telecommunications, P.R. China), Ping Zhang (WTI-BUPT, P.R. China)	150
Full-duplex Spectrum Sensing and Access in Cognitive Radio Networks with Unknown Primary User Activities	
Mohamed M Hammouda (McMaster University, Canada), Rong Zheng (McMaster University, Canada), Timothy N. Davidson (McMaster University, Canada)	156
Energy-efficient Transmission with Imperfect Spectrum Sensing in Cognitive Radio	
Lin Zhang (University of Electronic Science and Technology of China, P.R. China), Ming Xiao (Royal Institute of Technology, Sweden), Gang Wu (University of Electronic Science and Technology of China, P.R. China), Shaoqian Li (University of Electronic Science and Technology of China, P.R. China), Ying-Chang Liang (Institute for Infocomm Research,	
Singapore)	162

ICC'16 CSSMA: IEEE ICC 2016 - Communications Software, Services and Multimedia Applications Symposium

Communications Software, Services and Multimedia Applications (Interactive)

k-DLCA: An Efficient Approach for Location Privacy Preservation in Location-Based Services	
Dan Liao (University of Electronic Science and Technology of China, P.R. China), Xunhui Huang (University of Electronic Science and Technology of China, P.R. China), Vishal Anand (The College at Brockport, State University of New York, USA), Gang Sun (University of Electronic Science and Technology of China, P.R. China), Hongfang Yu (University of Electronic Science and Technology of China, P.R. China)	168
Adaptive Packet Scheduling for Scalable Video Streaming with Network Coding	
Shenglan Huang (Queen Mary University of London, United Kingdom), Ebroul Izquierdo (Queen Mary, University of London, United Kingdom), Pengwei Hao (Queen Mary, University of London, United Kingdom)	174
Loss Resilient Multi-view Video Streaming over Multiple Transmission Paths	
Iori Otomo (Osaka University, Japan), Takuya Fujihashi (Osaka University, Japan), Yusuke Hirota (Osaka University, Japan), Takashi Watanabe (Osaka University, Japan)	180
Impact of Tone-mapping Operators and Viewing Devices on Visual Quality of Experience	
Shaymaa Al-Juboori (Plymouth University, United Kingdom), Is-Haka Mkwawa (University of Plymouth, United Kingdom), Lingfen Sun (University of Plymouth, United Kingdom), Emmanuel Ifeachor (University of Plymouth, United Kingdom)	187
MPC-based Delay-Aware Fountain Codes for Live Video Streaming	
Kairan Sun (University of Florida, USA), Dapeng Oliver Wu (University of Florida, USA)	193
Interference Based Virtual Network Embedding	
Lei Yin (University of Science and Technology of China, P.R. China), Zheng Chen (University of Science and Technology of China, P.R. China), Ling Qiu (University of Science and Technology of China, P.R. China), Yonggang Wen (Nanyang Technological University,	
Singapore)	199

ICC'16 CT: IEEE ICC 2016 - Communications Theory

Cellular 5G

Multivariate Fronthaul Quantization for C-RAN Downlink: Channel-Adaptive Joint Quantization in the Cloud	
Wonju Lee (Korea Advanced Institute of Science and Technology, Korea), Osvaldo Simeone (New Jersey Institute of Technology, USA), Joonhyuk Kang (KAIST, Korea), Shlomo (Shitz) Shamai (The Technion, Israel)	205
Alternating Information Bottleneck Optimization for the Compression in the Uplink of C-RAN	
Di Chen (University of Rostock, Germany), Volker Kuehn (University of Rostock, Germany)	210
Compute-Remap-Compress-and-Forward for Limited Backhaul Uplink Multicell Processing	
Inaki Estella (Huawei Technologies Co., Ltd., France), Abdellatif Zaidi (Université Paris-Est Marne La Vallée, France)	217
On the Analysis of Cellular Networks with Caching and Coordinated Device-to-Device Communication	
Asma Afzal (University of Leeds, United Kingdom), Syed Ali Raza Zaidi (University of Leeds, United Kingdom), Desmond McLernon (The University of Leeds, United Kingdom), Mounir Ghogho (University of Leeds & International University of Rabat, United Kingdom)	223
Joint Pushing and Caching with a Finite Receiver Buffer: Optimal Policies and Throughput Analysis	
Wei Chen (Tsinghua University, P.R. China), H. Vincent Poor (Princeton University, USA)	230

ICC'16 GCSN: IEEE ICC 2016 - Green Communications Systems and Networks

Green Powered Network (Interactive)

Markovian Models of Solar Power Supply for a LTE Macro BS Giuseppe Leonardi (Politecnico di Torino, Italy), Michela Meo (Politecnico di Torino, Italy), Marco G Ajmone Marsan (Politecnico di Torino & IMDEA Networks, Italy)	236
Distributed Wireless Energy Scheduling for Wireless Powered Sensor Networks Dusit Niyato (Nanyang Technological University, Singapore), Lu Xiao (University of Alberta, Canada), Ping Wang (Nanyang Technological University, Singapore), Dong In Kim	
(Sungkyunkwan University (SKKU), Korea), Zhu Han (University of Houston, USA)	243
Energy Harvesting Small Cell Networks with Full-duplex Self-backhaul and Massive MIMO Lei Chen (The University of British Columbia, Canada), F. Richard Yu (Carleton University, Canada), Hong Ji (Beijing University of Posts and Telecommunications, P.R. China), Bo Rong (Communications Research Centre, Canada), Xi Li (Beijing University of Posts and	
Telecommunications, P.R. China), Victor C.M. Leung (University of British Columbia, Canada)	249
ICC'16 MWN: IEEE ICC 2016 - Mobile and Wireless Networking Symposium	
Resource Allocation	
Optimized Uplink-Downlink Decoupling in LTE-U Networks: An Echo State Approach	
Mingzhe Chen (Beijing University of Posts and Telecommunications, P.R. China), Walid Saad (Virginia Tech, USA), Changchuan Yin (Beijing University of Posts and Telecommunications, P.R. China)	255
Heuristics for Frequency Assignment Problem with Realistic Interference Constraints	
Bonhong Koo (Yonsei University, Korea), Huseyin Birkan Yilmaz (Yonsei University, Yonsei Institute of Convergence Technology, Korea), Chan-Byoung Chae (Yonsei University, Korea), Hwi-Sung Park (ADD, Korea), Jae-Hyun Ham (ADD, Korea), Sung-Ho Park (OpenSNS, Korea)	261
Joint Network Optimization in Cooperative Transmission Networks with Imperfect CSI Yong Wang (Harbin Institute of Technology, P.R. China), Lin Ma (Harbin Institute of	
Technology, P.R. China), Yubin Xu (Harbin Institute of Technology, P.R. China)	267
Interference Management with Partial Uplink/Downlink Spectrum Overlap	
Itsikiantsoa Randrianantenaina (King Abdullah University of Science and Technology, Saudi Arabia), Hesham ElSawy (King Abdullah University of Science and Technology (KAUST), Saudi Arabia), Hayssam Dahrouj (Effat University, Canada), Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi Arabia)	273
An Analysis on Relay Assisted Millimeter Wave Networks	
Sudip Biswas (University of Edinburgh, United Kingdom), Satyanarayana Vuppala (University of Edinburgh, United Kingdom), Jiang Xue (The University of Edinburgh & IDCOM, United Kingdom), Tharmalingam Ratnarajah (The University of Edinburgh, United Kingdom)	280
Mobile Networks	
Information Diffusion Prediction in Mobile Social Networks with Hydrodynamic Model	
Ying Hu (Huazhong University of Science and Technology, P.R. China), Min Chen (Huazhong University of Science and Technology, P.R. China)	286
Crowdsourced Mobility Prediction Based on Spatio-Temporal Contexts	- -
Haitian Pang (Tsinghua University, P.R. China), Peng Wang (Tsinghua University, P.R. China), Lin Gao (The Chinese University of Hong Kong, Hong Kong), Ming Tang (The Chinese University of Hong Kong, Hong Kong), Jianwei Huang (The Chinese University of Hong Kong,	
Hong Kong), Lifeng Sun (Tsinghua University, P.R. China)	291

Supporting Mobility in 5G: A comparison between Massive MIMO and Continuous Ultra Dense Networks	
Petteri Kela (Huawei Technologies Oy (Finland) Co., Ltd., Finland), Xavier Gelabert (Huawei Technologies Sweden AB, Sweden), Jussi Turkka (Magister Solutions Ltd., Finland), Mario Costa (Huawei Technologies Oy (Finland) Co., Ltd., Finland), Kari Heiska (Huawei, Finland), Kari Leppanen (Huawei Technologies, Finland), Christer Qvarfordt (Huawei Technologies Sweden AB, Sweden)	297
Handover Management in Dense Cellular Networks: A Stochastic Geometry Approach	
Rabe Arshad (King Fahd University of Petroleum and Minerals, Saudi Arabia), Hesham ElSawy (King Abdullah University of Science and Technology (KAUST), Saudi Arabia), Sameh Sorour (King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia), 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)	303
Exploring Seasonal Human Behavior in Opportunistic Mobile Networks	
Kassio Machado (Federal University of Minas Gerais & University of Ottawa, Brazil), Azzedine Boukerche (University of Ottawa, Canada), Pedro O. S. Vaz de Melo (Federal University of Minas Gerais, Brazil), Eduardo Cerqueira (Federal University of Para & UCLA & UFPA & UCLA,	
Brazil), Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil)	310
ICC'16 NGN: IEEE ICC 2016 - Next-Generation Networking and Internet Sympo	sium
A Software Development Kit to exploit RINA programmability	
Vincenzo Maffione (Nextworks, Italy), Francesco Salvestrini (Nextworks s. r. l., Italy), Eduard Grasa (Fundació i2CAT, Internet i Innovació Digital a Catalunya, Spain), Miquel Tarzan-Lorente (i2Cat Foundation, Spain), Leonardo Bergesio (i2CAT, Spain)	316
A Joint Network and Server Load Balancing Algorithm for Chaining Virtualized Network	

Tuan Thai (National Chiao Tung University, Taiwan), Ying-Dar Lin (National Chiao Tung

Fadoua Hassen (Leeds University, United Kingdom), Lotfi Mhamdi (University of Leeds, United

Jacek Kibiłda (Trinity College Dublin, Ireland), Francesco Malandrino (Politecnico di Torino,

Adrian Lara (University of Costa Rica, Costa Rica), Shreyasee Mukherjee (WINLAB, Rutgers University, USA), Byrav Ramamurthy (University of Nebraska-Lincoln, USA), Dipankar Raychaudhuri (Rutgers University, USA), K. K. Ramakrishnan (University of California,

A Scalable Packet-Switch Based on Output-Queued NoCs for Data Centre Networks

Incentives for Infrastructure Deployment by Over-the-Top Service Providers in a Mobile

Inter-Domain Routing with Cut-Through Switching for the MobilityFirst Future Internet

University, Taiwan), Yuan-Cheng Lai (Information Management, NTUST, Taiwan) ______ 323

..... 335

..... 341

Functions

Kingdom)

Architecture

Network: A Cooperative Game Theory Model

Italy), Luiz DaSilva (Trinity College Dublin, Ireland)

Riverside, USA)

ICC'16 ONS: IEEE ICC 2016 - Optical Networks and Systems

Access Networks

Efficient Accommodation of Mobile Fronthaul and Secondary Services in a TDM-PON System with Wireless TDD Frame Monitor	
Daisuke Hisano (NTT, Japan), Tatsuya Shimada (NTT, Japan), Hiroshi Ou (NTT Corporation, Japan), Takayuki Kobayashi (NTT, Japan), Shigeru Kuwano (NTT Corporation, Japan), Jun Terada (NTT Corporation, Japan), Akihiro Otaka (NTT Corporation, Japan)	. 347
Energy Performance of C-RAN with 5G-NX Radio Networks and Optical Transport	
Matteo Fiorani (KTH Royal Institute of Technology, Sweden), Sibel Tombaz (Ericsson Research, Sweden), Jonas Mårtensson (Acreo AB, Sweden), Björn Skubic (Ericsson AB, Sweden), Lena Wosinska (KTH Royal Institute of Technology, Sweden), Paolo Monti (KTH Royal Institute of Technology, Sweden)	. 353
Analytical and Experimental Evaluation of CPRI over Ethernet Dynamic Rate Reconfiguration	
Luca Valcarenghi (Scuola Superiore Sant'Anna, Italy), Koteswararao Kondepu (Sculoa Superiore Sant'Anna, Italy), Piero Castoldi (Scuola Superiore Sant'Anna, Italy)	359
Survivable Architectures for Power-Savings Capable Converged Access Networks	
Elaine Wong (The University of Melbourne, Australia), Carmen Mas Machuca (Technical University of Munich, Germany), Lena Wosinska (KTH Royal Institute of Technology,	
Sweden)	. 365
Multirate IP Traffic Transmission in Flexible Access Networks based on Optical FFH-CDMA	
Thiago R Raddo (Technical University of Denmark & University of Sao Paulo, Denmark), Anderson Sanches (University of the Reconcavo of the Bahia - UFRB, Brazil), Idelfonso Tafur Monroy (Technical University of Denmark & ITMO University, Denmark), Ben-Hur V Borges (Universidade de São Paulo & Escola de Engenharia de São Carlos, Brazil)	. 372

ICC'16 SAC-2 CCN: IEEE ICC 2016 SAC Cloud Communications and Networking

Cloud Communications and Networking (Interactive)

Adaptive Application Offloading Decision and Transmission Scheduling for Mobile Cloud Computing	
Junyi Wang (Guilin University of Electronic Technology, P.R. China), Jie Peng (Guilin University of Electronic Technology, P.R. China), Yanheng Wei (Guilin University of Electromic Technology, P.R. China), Didi Liu (School of Telecommunication Engineering Xidian University, P.R. China), Jielin Fu (Guilin University of Electronic Technology, P.R. China)	378
Supply Chain Efficient Inventory Management as a Service Offered by a Cloud-based Platform	
Abdelmounaim Dahbi (University of Ottawa, Canada), Hussein T. Mouftah (University of Ottawa, Canada)	385
Distributed Private Online Learning for Social Big Data Computing over Data Center Networks	
Chencheng Li (Huazhong University of Science and Technology, P.R. China), Pan Zhou (Huazhong University of Science and Technology, P.R. China), Yingxue Zhou (HuaZhong University of Science and Technology, P.R. China), Kaigui Bian (Peking University, P.R. China), Tao Jiang (Huazhong University of Science and Technology, P.R. China), Susanto Rahardja (Northwestern Polytechnical University, P.R. China)	392
A Combinatorial Double Auction Based Resource Allocation Mechanism with Multiple Rounds for Geo-distributed Data Centers	
Yeru Zhao (School of Information Science & Engineering, Central South University, P.R. China), Zhiwu Huang (School of Information Science & Engineering, Central South University, P.R. China), Weirong 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), Qianqian Zhang (School of Information Science & Engineering, Central South University, P.R. China)	398
-///	

ICC'16 SAC-3 DS: IEEE ICC 2016 SAC Data Storage

Data Storage

Serial Quasi-Primitive BC-BCH Codes for NAND Flash Memories	
Daesung Kim (KAIST, Korea), Jeongseok Ha (KAIST, Korea)	404
Towards an Analytical Model of NAND Flash Memory and the Impact on Channel Decoding	
Hachem Yassine (University of Oxford, United Kingdom), Justin P Coon (University of Oxford, United Kingdom), Mohamed Ismail (Toshiba Research Europe Ltd., United Kingdom), Henry Fletcher (University of Oxford, United Kingdom)	410
Locally Rewritable Codes for Resistive Memories	
Yongjune Kim (Carnegie Mellon University, USA), Abhishek Sharma (Carnegie Mellon University, USA), Robert Mateescu (WD Research, USA), Seung-Hwan Song (HGST Research, USA), Zvonimir Z Bandic (SJRC Research & HGST, USA), James Bain (Carnegie Mellon University, USA), B. V. K. Vijaya Kumar (Carnegie Mellon University, USA)	416
Reducing Repair-Bandwidth Using Codes Based on Factor Graphs	410
Dongwon Lee (Korea Advanced Institute of Science and Technology, Korea), Hyegyeong Park	
(KAIST, Korea), Jaekyun Moon (KAIST, Korea)	423
The Rotating-Target Algorithm for Jointly Detecting Asynchronous Tracks	
Elnaz Banan Sadeghian (Georgia Institute of Technology, USA), John Barry (Georgia Institute of Technology, USA)	429
ICC'16 SAC-4 E-HLT: IEEE ICC 2016 SAC E-Health E-Health (Interactive)	
EQ-AODV: Energy and QoS supported AODV for better performance in WMSNs	
Sofiane Hamrioui (University of Haute Alsace (UHA), France), Pascal Lorenz (University of Haute Alsace, France)	435
Contact-less Indoor Activity Analysis using First-reflection Echolocation	
Subir Biswas (Michigan State University, USA), Brandon Harrington (Virginia State University, USA), Faezeh Hajiaghajani (Michigan State University, USA), Rui Wang (Michigan State University, USA)	441
Identifying activity boundaries for activity recognition in smart environments	
Yi Wang (Toshiba, United Kingdom), Zhong Fan (Toshiba Research Europe, United Kingdom),	
Ayomi Bandara (Toshiba Research Europe Ltd., United Kingdom)	447
ICC'16 SAC-7 SSC: IEEE ICC 2016 SAC Satellite and Space Communications Networking	
Routing Optimization for DTN-Based Space Networks Using a Temporal Graph Model	
Sara El Alaoui (University of Nebraska-Lincoln, USA), Byrav Ramamurthy (University of Nebraska-Lincoln, USA)	453
Delay-Bounded and Minimal Transmission Broadcast in LEO Satellite Networks	433
Feng He (Harbin Institute of Technology Shenzhen Graduate School, P.R. China), Qin Liu	
(School of Computer, Wuhan University, P.R. China), Tao Lv (Harbin Institute of Technology	
Shenzhen Graduate School, P.R. China), ChunYan Liu (Harbin Institute of Technology	
ShenZhen Graduate School, P.R. China), Hejiao Huang (Harbin Institute of Technology, P.R.	450
China), Xiaohua Jia (City University of Hong Kong, Hong Kong)	459

Masanori Horiuchi (Tohoku University, Japan), Hiroki Nishiyama (Tohoku University, Japan), Nei Kato (Tohoku University, Japan), Fumie Ono (National Institute of Information and Communications Technology, Japan), Ryu Miura (NICT, Japan)	466
Feeder-Link Outage Prediction Algorithms for SDN-based High-Throughput Satellite Systems	
Maurizio Mongelli (National Research Council of Italy, Italy), Tomaso De Cola (German Aerospace Center (DLR), Germany), Marco Cello (Nokia Bell Labs, Ireland), Mario Marchese (DIST- University of Genoa, Italy), Franco R. Davoli (University of Genoa & National Inter-University Consortium for Telecommunications (CNIT), Italy)	472
SAT-GRD: An ID/Loc Split Network Architecture Interconnecting Satellite and Ground Networks	
Bohao Feng (Beijing Jiaotong University, P.R. China), Huachun Zhou (Beijing Jiaotong University, P.R. China), Guanwen Li (Beijing Jiaotong University, P.R. China), Haifeng Li (University of BeiJingJiaoTong, BeiJing, P.R. China), Shui Yu (Deakin University, Australia)	478
ICC'16 SPC: IEEE ICC 2016 - Signal Processing for Communications Symposiu	m
Full Duplex	
Optimal Low-Complexity Self-Interference Cancellation for Full-Duplex MIMO Small Cells Italo Atzeni (Mathematical and Algorithmic Sciences Lab, France Research Center, Huawei Technologies Co. Ltd., France), Marco Maso (Mathematical and Algorithmic Sciences Lab, Huawei France Research Center, France), Marios Kountouris (Huawei Technologies, France) Exploiting Polarization to Resist Phase Noise for Digital Self-Interference Cancellation in Full-Duplex	484
Fangfang Liu (Beijing University of Posts and Telecommunications, P.R. China), Songlin Jia (Beijing University of Posts and Telecommunications, P.R. China), Caili Guo (Beijing University of Posts and Telecommunications, P.R. China), Chunyan Feng (Beijing University of Posts and Telecommunications, P.R. China)	490
Pricing Based Interference Control in Reversed Time Division Duplex Heterogeneous Networks	
Ye Liu (Loughborough University, United Kingdom), Sangarapillai Lambotharan (Loughborough University, United Kingdom), Arumugam Nallanathan (King's College London, United Kingdom), Kai Kit Wong (University College London, United Kingdom)	496
Protocol Design and Performance Analysis for X-Duplex Amplify-and-Forward Relay Networks Shuai Li (Peking University, P.R. China), Mingxin Zhou (Peking University, P.R. China), Jianjun Wu (Peking University, P.R. China), Lingyang Song (Peking University, P.R. China),	
Yonghui Li (University of Sydney, Australia), Hongbin Li (Peking University, P.R. China)	502
Optimal Uplink and Downlink Channel Assignment in a Full-Duplex Multiuser System Duy H. N. Nguyen (University of Texas, Austin, USA), Long Bao Le (INRS, University of	
Quebec, Canada), Zhu Han (University of Houston, USA)	508
ICC'16 WCS: IEEE ICC 2016 - Wireless Communications Symposium	
Cooperative Networks and Relaying Communications I	
Performance Analysis of Paired-RB Proportional fairness in Relay-assisted Multiuser Downlink	
Irfan Ahmed (Taif University, Saudi Arabia), Fahad ALradday (Taif University, Saudi Arabia) Joint Power Control and Energy Transfer for Energy Harvesting Relay Networks	514
Keshav Singh (The University of Edinburgh, United Kingdom), Meng-Lin Ku (National Central University, Taiwan), Jia-Chin Lin (National Central University, Taiwan)	520

Throughput Maximization for Long-Distance Real-Time Data Transmission over Multiple UAVs

Novel Protocol with Improved Outage Probability Performance for the Fading Two-Hop Half- Duplex Relay Channel	
Nikola Zlatanov (Monash University, Australia), Vahid Jamali (Friedrich-Alexander-University Erlangen-N"urnberg, Germany), Derrick Wing Kwan Ng (University of New South Wales,	E 2 E
Australia), Robert Schober (University of British Columbia, Canada)	525
Ahmed M Almradi (The University of Manchester, United Kingdom), Khairi A. Hamdi	
(University of Manchester, United Kingdom)	532
RF Energy Harvesting in DF Relay Networks in the Presence of an Interfering Signal	
Lina Elmorshedy (University of British Columbia, Canada), Cyril Leung (The University of	
British Columbia, Canada), Seyed A Mousavifar (University of British Columbia, Canada)	539
Small Cells and Heterogeneous Networks I	
Spectral Efficiency Analysis in Wireless Heterogeneous Networks	
Bei Xie (Utah State University, USA), Zekun Zhang (Utah State University, USA), Rose Qingyang Hu (Utah State University, USA), Yi Qian (University of Nebraska-Lincoln, USA)	545
Dong Liu (Beihang University, P.R. China), Chenyang Yang (Beihang University, P.R. China)	551
Cooperative Local Caching and File Sharing under Heterogeneous File Preferences	331
Yinghao Guo (National University of Singapore, Singapore), Lingjie Duan (Singapore University of Technology and Design (SUTD), Singapore), Rui Zhang (National University of Singapore, Singapore)	557
Outage and Throughput Analysis of Multi-Antenna Transmissions in Heterogeneous Cellular Networks	337
Tong-Xing Zheng (Xi'an Jiaotong Unviersity, P.R. China), Qian Yang (Xi'an Jiaotong University, P.R. China), Yi Zhang (Xi'an Jiaotong Unviersity & Ecole Centrale de Nantes, P.R. China), Ying Ju (Xi'an Jiaotong University & State Radio Monitoring Center, P.R. China), Hui-Ming Wang (Xi'an Jiaotong University, P.R. China), Pengcheng Mu (Xi'an Jiaotong University, P.R. China)	563
Modelling and Performance Analysis of 3-D Heterogeneous Cellular Networks	303
Aymen Omri (Qatar University, Qatar), Mazen Omar Hasna (Qatar University, Qatar)	569
Multiple Access	
On the Secrecy Capacity of Multi-Cell Uplink Networks with Opportunistic Scheduling Hu Jin (Hanyang University, Korea), Bang Chul Jung (Chungnam National University, Korea),	
Won-Yong Shin (Dankook University, Korea)	574
An Optimized Superposition Constellation and Region-Restricted MPA Detector for LDS System	
Lining Tian (Zhejiang University, P.R. China), Jie Zhong (Zhejiang University, P.R. China), Minjian Zhao (Zhejiang University, P.R. China), Lei Wen (University of Surrey, United Kingdom)	579
Physical Layer Security for 5G Non-orthogonal Multiple Access in Large-scale Networks	
Zhijin Qin (Queen Mary University of London, United Kingdom), Yuanwei Liu (Queen Mary, University of London, United Kingdom), Zhiguo Ding (Lancaster University, United Kingdom), Yue Gao (Queen Mary University of London, United Kingdom), Maged Elkashlan (Queen Mary, University of London, United Kingdom)	584
Joint Relay Selection and Subcarrier Allocation for Multi-Carrier AF Relay Assisted Multi-Access Networks	
Han Di (Tsinghua University, P.R. China), Bo Bai (Tsinghua University, P.R. China), Wei Chen (Tsinghua University, P.R. China)	590
OFDM for 5G: Cyclic Prefix versus Zero Postfix, and Filtering versus Windowing	
Sivarama Venkatesan (Bell Labs & Alcatel-Lucent, USA), Reinaldo Valenzuela (Bell Labs, Alcatel-Lucent, USA)	596

Massive MIMO I

CSI	τ
Ang Li (University College London, United Kingdom), Christos Masouros (University College London, United Kingdom)	601
On the Design of MIMO-NOMA Downlink and Uplink Transmission	
Zhiguo Ding (Lancaster University, United Kingdom), Robert Schober (Universität Erlangen- Nürnberg, Germany), H. Vincent Poor (Princeton University, USA)	
Multi-Objective Resource Allocation in Full-Duplex SWIPT Systems	
Shiyang Leng (The Pennsylvania State University, USA), Derrick Wing Kwan Ng (University New South Wales, Australia), Nikola Zlatanov (Monash University, Australia), Robert Schobe (University of British Columbia, Canada)	er
Low-Complexity MIMO Precoding with Discrete Signals and Statistical CSI	
Yongpeng Wu (University of Erlangen-Nuremberg, Germany), Chao-Kai Wen (National Sun Yat-sen University, Taiwan), Derrick Wing Kwan Ng (University of New South Wales, Australia), Robert Schober (Universität Erlangen-Nürnberg, Germany), Angel Lozano (Universitat Pompeu Fabra (UPF), Spain)	620
Uplink/Downlink Duality in Massive MIMO Systems with Hardware Impairments	
Shahram Zarei (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany), Wolfgang Gerstacker (University of Erlangen-Nuernberg, Germany), Robert Schober (Universität	626
Erlangen-Nürnberg, Germany)	626
Modeling and Analysis of Cellular Networks with Elastic Data Traffic Arman Shojaeifard (University College London, United Kingdom), Khairi A. Hamdi (Universit of Manchester, United Kingdom), Emad Alsusa (Manchester University, United Kingdom), Daniel K. C. So (University of Manchester, United Kingdom), Jie Tang (South China University of Tachanlagy, R.R. China)	ty
of Technology, P.R. China)	633
Hongguang Sun (Xidian University, P.R. China), Min Sheng (Xidian University, P.R. China), Yan Zhang (Xidian University, P.R. China), Xijun Wang (Xidian University, P.R. China), Jiandong Li (Xidian University, P.R. China), Tony Q. S. Quek (Singapore University of Technology and Design, Singapore)	638
Tight Bounds on the Laplace Transform of Interference in a Poisson Hole Process	
Zeinab Yazdanshenasan (Virginia Tech, Singapore), Harpreet S Dhillon (Virginia Tech, USA) Mehrnaz Afshang (Virginia Tech, USA), Peter Han Joo Chong (Auckland University of Technology, New Zealand)	
Access Point Selection and Auction-based Scheduling in Uplink MU-MIMO WLANs	0 13
Mengjie Xie (The Chinese University of Hong Kong, Hong Kong), Tat M. Lok (The Chinese University of Hong Kong, Hong Kong)	651
ICC'16 AHSN: IEEE ICC 2016 Ad-hoc and Sensor Networking Symposium	
Energy-Efficient Networks II	
Fuzzy Power Management for Energy Harvesting Wireless Sensor Nodes	
Fayçal Ait Aoudia (University of Rennes 1, IRISA, France), Matthieu Gautier (University of Rennes 1, IRISA, France), Olivier Berder (University of Rennes 1, IRISA, INRIA, France)	657

	Towards Energy-Balanced Data Transmission for Lifetime Optimization in Wireless Sensor Networks	
	Xianjin Xia (Northwestern Polytechnical University, P.R. China), Shi-Ning Li (Northwestern Polytechnical University, P.R. China), Yu Zhang (Northwestern Polytechnical University & RMIT University, P.R. China), Tao Gu (RMIT University, Australia)	663
	Starvation Avoidance Mobile Energy Replenishment for Wireless Rechargeable Sensor Networks	
	Yong Feng (Kunming University of Science and Technology, P.R. China), Nianbo Liu (University of Electronic Science and Technology of China, P.R. China), Feng Wang (Kunming University of Science and Technology, P.R. China), Qian Qian (Kunming University of Science and Technology, P.R. China), Xiuqi Li (Kunming University of Science and Technology, P.R. China)	670
	Energy-Efficient Classification for Anomaly Detection: The Wireless Channel as a Helper	
	Kiril Ralinovski (Technical University Berlin, Germany), Mario Goldenbaum (Princeton University, USA), Slawomir Stanczak (Fraunhofer Heinrich Hertz Institute & Technische Universität Berlin, Germany)	676
	Optimal Transmission Period for Improved Sink-based Data Collection in Energy Harvesting Wireless Sensor Networks	
	Abbas Mehrabi (Gwangju Institute of Science and Technology, Gwangju, Korea), Kiseon Kim (GIST - Gwangju, Reoublic of Korea, Korea)	682
Mobile ar	nd Vehicular Ad Hoc Networks I	
	Vehicular Communication Performance in Convoys of Automated Vehicles	
	Ignacio Llatser (Technische Universität Dresden, Germany), Andreas Festag (TU Dresden, Germany), Gerhard Fettweis (Technische Universität Dresden, Germany)	688
	A Connectivity Analytical Model for a Highway with an Entrance/Exit in Vehicular Ad Hoc Networks	
	Yu Wang (Southeast University, P.R. China), Jun Zheng (Southeast University, P.R. China)	694
	Pedestrian Dead Reckoning on Smartphones with Varying Walking Speed Rui Zhou (University of Electronic Science and Technology of China, P.R. China)	700
	Traffic Big Data Analysis Supporting Vehicular Network Access Recommendation	700
	Yunshu Liu (Shanghai Jiaotong University, P.R. China), Xuanyu Chen (Shanghai Jiaotong University, P.R. China), Cailian Chen (Shanghai Jiao Tong University, P.R. China), Xinping	706
	Guan (Shanghai Jiao Tong University, P.R. China) Reinforcement Learning-based Data Storage Scheme in Vehicular Ad Hoc Networks	700
	Celimuge Wu (The University of Electro-Communications, Japan), Tsutomu Yoshinaga (University of Electro-Communications, Japan), Yusheng Ji (National Institute of Informatics,	
	Japan), Tutomu Murase (Nagoya University, Japan), Yan Zhang (Simula Research Laboratory and University of Oslo, Norway)	712
ICC'16 Sympo	CISS: IEEE ICC 2016 Communication and Information Systems Security sium	,
Internet S	Security I	
	QoSE:Quality of SEcurity (A network security module using a distributed NFV) Taejune Park (KAIST, Korea), Yeonkeun Kim (KAIST, Korea), Jaehyun Park (KAIST, Korea), Hyunmin Suh (KAIST, Korea), Byeongdo Hong (KAIST, Korea), Seungwon Shin (KAIST, Korea)	718

CookieMiner: Towards Real-Time Reconstruction of Web-Downloading Chains from Network Traces	
Zhipeng Chen (Institute of Information Engineering, Chinese Academy of Sciences, P.R. China), Peng Zhang (Institute of Information Engineering, Chinese Academy of Sciences, P.R. China), Chao Zheng (Institute of Information Engineering, Chinese Academy of Sciences, P.R. China), Qingyun Liu (Institute of Information Engineering, Chinese Academy of Sciences, P.R. China)	724
Achieving Secure and Accurate Friend Discovery Based on Friend-of-Friend's Recommendations	
Yuanyuan He (State Key Laboratory of Information Security, Institute of Information Engineering, CAS, P.R. China), Fenghua Li (State Key Laboratory of Information Security, Institute of Information Engineering, CAS, P.R. China), Ben Niu (State Key Laboratory of Information Security, Institute of Information Engineering, CAS, P.R. China), Jiafeng Hua (Xidian University, P.R. China)	730
From protecting protocols to layers: designing, implementing and experimenting with security policies in RINA	
Eduard Grasa (Fundació i2CAT, Internet i Innovació Digital a Catalunya, Spain), Ondrej Rysavy (Brno University of Technology, Czech Republic), Ondrej Licthner (Brno University of Technology, Czech Republic), Hamid Asgari (Thales UK Research & Technology, United Kingdom), John Day (Boston University, USA), Lou Chitkushev (Boston University, USA)	736

ICC'16 CQRM: IEEE ICC 2016 - Communication QoS, Reliability and Modeling Symposium

Network Coding

Network Coding-Aware IEEE 802.11 MAC Protocol Using Batch Transmissions and Multiple Reverse Direction Exchanges	
Raul Palacios-Trujillo (University of Campinas, Brazil), Biniam Hailu Dabi (University of Trento, Italy), Jesus Alonso-Zarate (Centre Tecnologic de Telecomunicacions de Catalunya - CTTC, Spain), Fabrizio Granelli (University of Trento, Italy), Frank H.P. Fitzek (Technische Universität Dresden & ComNets - Communication Networks Group, Germany), Nelson L. S. da Fonseca (State University of Campinas, Brazil)	743
Decoding and File Transfer Delay Balancing in Network Coding Broadcast	
Emmanouil Skevakis (Carleton University, Canada), Ioannis Lambadaris (Carleton University, Canada)	750
Exploiting Sparse Coding: A Sliding Window Enhancement of a Random Linear Network Coding Scheme	
Pablo Garrido (University of Cantabria, Spain), David Gómez (Universidad de Cantabria, Spain), Jorge Lanza (University of Cantabria, Spain), Ramón Agüero (University of Cantabria, Spain)	757
Network Coding-based Content Distribution in Cellular Access Networks	
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)	763
On Characteristic Features of the Application Level Delay Distribution of TCP Congestion Avoidance	
Lübben Ralf (Robert-Bosch GmbH, Germany), Markus Fidler (Leibniz Universität Hannover, Germany)	769

Communication QoS, Reliability and Modeling (Interactive)

LISA: A Linked Slow-Start Algorithm for MPTCP	
Runa Barik (University of Oslo, Norway), Michael Welzl (University of Oslo, Norway), Simone Ferlin (University of Oslo & Simula Research Laboratory, Norway), Ozgu Alay (Simula	
Research Laboratory, Norway)	776
ReMP TCP: Low Latency Multipath TCP	
Alexander Frömmgen (TU Darmstadt, Germany), Tobias Erbshäuser (TU Darmstadt, Germany), Torsten Zimmermann (RWTH Aachen University, Germany), Klaus Wehrle (RWTH Aachen University, Germany), Alejandro Buchmann (Technische Universitat Darmstadt, Germany)	783
How quick is QUIC?	, 00
Péter Megyesi (Budapest University of Technology and Economics, Hungary), Zsolt Krämer (Budapest University of Technology and Economics, Hungary), Sándor Molnár (Budapest University of Technology and Economics, Hungary)	790
ICC'16 CRN: IEEE ICC 2016 - Cognitive Radio and Networks Symposium	
Resource Management I	
GHAR: Graph-based Hybrid Adaptive Routing for Cognitive Radio Based Disaster Response Networks	
Thuan Ngo (Tohoku University, Japan), Hiroki Nishiyama (Tohoku University, Japan), Nei Kato (Tohoku University, Japan), Satoshi Kotabe (NTT, Japan), Hiroshi Tohjo (NTT, Japan)	796
Optimal Allocation of Non-uniformly Partitioned Bandwidth for Cognitive Communications under Fading Conditions	
Song Huang (South China University of Technology, P.R. China), Anthony Ephremides (University of Maryland at College Park, USA), Di Yuan (Linköping University, Sweden) QoE-Driven Resource Allocation Method For Cognitive Radio Networks	802
Jingyi Dai (Nanjing University, P.R. China), Shaowei Wang (Nanjing University, P.R. China)	808
Energy-Efficient Resource Allocation in Cognitive D2D Communications: A Game-Theoretical and Matching Approach	000
Zhenyu Zhou (North China Electric Power University & Waseda University, P.R. China), Guifang Ma (North China Electric Power University, P.R. China), Chen Xu (North China Electric Power University, P.R. China), Zheng Chang (University of Jyväskylä, Finland), Tapani Ristaniemi (University of Jyväskylä, Finland)	814
ICC'16 CT: IEEE ICC 2016 - Communications Theory	
Multiple Access I	
Random Access Protocol for Massive MIMO: Strongest-User Collision Resolution (SUCR) Emil Björnson (Linköping University, Sweden), Elisabeth de Carvalho (Aalborg University, Denmark), Erik G. Larsson (Linköping University, Sweden), Petar Popovski (Aalborg University, Denmark)	820
Coded Slotted ALOHA Schemes for Erasure Channels	520
Zhuo Sun (University of New South Wales. Australia, Australia), Yixuan Xie (University of New South Wales, Australia), Jinhong Yuan (University of New South Wales, Australia), Tao Yang (University of Technology Sydney, Australia)	826
QoS-Driven Power Control in Fading Multiple-Access Channels with Random Arrivals	
Deli Qiao (East China Normal University, P.R. China), Mustafa Ozmen (Syracuse University, USA), M. Cenk Gursoy (Syracuse University, USA)	832

Distributed Downlink Power Control for the Non-Orthogonal Multiple Access System with Two Interfering Cells	
Yaru Fu (City University of Hong Kong, Hong Kong), Yi Chen (The Chinese University of Hong Kong, Hong Kong), Chi Wan Sung (City University of Hong Kong, Hong Kong)	. 838
The Semantic Communication Game	
Basak Guler (The Pennsylvania State University, USA), Aylin Yener (Pennsylvania State University, USA), Ananthram Swami (Army Research Lab., USA)	. 844
Communication Theory (Interactive)	
On the Error Performance Bound of Ordered Statistics Decoding of Linear Block Codes	
Pawan Dhakal (Politecnico di Torino, Italy), Roberto Garello (Politecnico di Torino, Italy), Shree Krishna Sharma (University of Luxembourg, Luxembourg), Symeon Chatzinotas (University of Luxembourg, Luxembourg), Björn Ottersten (University of Luxembourg, Luxembourg)	950
Estimation of Achievable Rates in Additive Gaussian Mixture Noise Channels	. 030
Duc-Anh Le (University of Akron, USA), Hung Vu (McGill University, Canada), Nghi H Tran (University of Akron, USA), M. Cenk Gursoy (Syracuse University, USA), Tho Le-Ngoc (McGill University, Canada)	. 856
Design of Raptor Codes in the Low SNR Regime with Applications in Quantum Key Distribution Mahyar Shirvanimoghaddam (University of Newcastle, Australia), Sarah J Johnson (University of Newcastle, Australia), Andrew Lance (QuintessenceLabs Pty. Ltd., Australia)	
Capacity-Achieving Iterative LMMSE Detection for MIMO-NOMA Systems	
Lei Liu (Xidian University, P.R. China), Chau Yuen (Singapore University of Technology and Design, Singapore), Yong Liang Guan (Nanyang Technological University, Singapore), Ying Li (University of Xidian, P.R. China)	868
ICC'16 GCSN: IEEE ICC 2016 - Green Communications Systems and Networks Energy Efficiency 1 (Interactive)	
Resource Allocation for Phantom Cellular Networks: Energy Efficiency vs Spectral Efficiency Amr Abdelhady (KAUST, Saudi Arabia), Osama Amin (King Abdullah University of Science and Technology (KAUST), Saudi Arabia), Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi Arabia)	. 874
CrowdAP: Crowdsourcing Driven AP Coordination for Improving Energy Efficiency in Wireless Access Networks	
Gurman Bhalla (Indian Institute of Technology Kharagpur, India), Raja Karmakar (Techno India College of Technology, India), Sandip Chakraborty (Indian Institute of Technology Kharagpur, India), Samiran Chattopadhyay (Jadavpur University, India)	. 880
Energy Efficiency of Channels under Additive Gaussian-Mixture Noise in the Low-Power Regime Mohammad Ranjbar (University of Akron, USA), Nghi H Tran (University of Akron, USA), M. Cenk Gursoy (Syracuse University, USA), Hamid Reza Bahrami (The University of Akron, USA)	
Energy Efficient Resource Allocation for Secure OFDMA Relay Systems with Eavesdropper Zheng Chang (University of Jyväskylä, Finland), Xin Hou (Yanshan University, P.R. China),	
Xijuan Guo (Yan Shan University, P.R. China), Tapani Ristaniemi (University of Jyväskylä, Finland)	. 892

ICC'16 MWN: IEEE ICC 2016 - Mobile and Wireless Networking Symposium

Caching and Offloading

	On Optimal Hotspot Selection and Offloading	
	Vandana Mittal (IIIT-Delhi, India), Sanjit Kaul (IIIT Delhi, India), Sumit Roy (University of Washington, USA)	899
	Content Caching at the Wireless Network Edge: A Distributed Algorithm via Belief Propagation	
	Juan Liu (HKUST, P.R. China), Bo Bai (Tsinghua University, P.R. China), 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)	905
	Optimal Caching Time for Epidemic Content Dissemination in Mobile Social Networks	
	Hsiang Hsu (National Taiwan University, Taiwan), Kwang-Cheng Chen (National Taiwan University, Taiwan)	911
	Distributed Algorithm for Energy Efficient Multi-Hop Computation Offloading	
	Hussein Al-Shatri (TU Darmstadt, Germany), Sabrina Müller (Technische Universität Darmstadt, Germany), Anja Klein (TU Darmstadt, Germany)	917
	Optimal Caching for Producer Mobility Support in Named Data Networks	
	Hesham Farahat (Queen's University, Canada), Hossam S. Hassanein (Queen's University, Canada)	923
IoT and M	12M	
	A Lightweight Anomaly Detection Technique for Low-Resource IoT Devices: A Game-Theoretic Methodology	
	Hichem Sedjelmaci (University of Bourgogne, DRIVE Lab, France), Sidi-Mohammed Senouci (University of Bourgogne - ISAT Nevers, France), Mohamad Al Bahri (University of Bourgogne & Institute of Automotive and Transport Engineering (ISAT), France)	929
	Aggregating Cellular Communication Lines for IoT Devices by Sharing IMSI	
	Manabu Ito (National Institute of Information and Communications Technology, Japan), Nozomu Nishinaga (National Institute of Information and Communications Technology, Japan), Yoshinori Kitatsuji (KDDI R&D Laboratories Inc., Japan), Masayuki Murata (Osaka University, Japan)	035
	Optimistic DRX for Machine-type Communications	933
	Hui-Ling Chang (National Cheng Kung University, Taiwan), Shang-Lin Lu (National Cheng Kung University, Taiwan), Tsung-Hui Chuang (National Cheng Kung University, Taiwan), Chia-Ying Lin (National Cheng Kung University, Taiwan), Meng-Hsun Tsai (National Cheng Kung University, Taiwan), Sok-Ian Sou (National Cheng Kung University, Taiwan)	942
	Performance Analysis of Access Class Barring for Handling Massive M2M Traffic in LTE-A Networks	
	Israel Leyva-Mayorga (Universitat Politècnica de València, Spain), Luis Tello-Oquendo (Universitat Politecnica de Valencia, Spain), Vicent Pla (Universitat Politecnica de Valencia, Spain), Jorge Martinez-Bauset (Universidad Politécnica de Valencia, Spain), Vicente Casares-Giner (Universidad Politécnica de Valencia, Spain)	948
	On RACH Preambles Separation Between Human and Machine Type Communication	
	Gianluca Foddis (Telecom Italia, Italy), Rosario G. Garroppo (University of Pisa, Italy), Stefano Giordano (University of Pisa, Italy), Gregorio Procissi (University of Pisa, Italy), Simone Roma (University of Pisa & Telecom Italia, Italy), Simone Topazzi (Telecom Italia Lab,	
	Italy)	954

ICC'16 NGN: IEEE ICC 2016 - Next-Generation Networking and Internet Symposium

Future Internet and Next-generation Networking Architectures II

Joint MiddleBox Selection and Routing for Software-Defined Networking	
Huawei Huang (The University of Aizu, Japan), Song Guo (The University of Aizu, Japan), Jinsong Wu (Universidad de Chile, Chile), Jie Li (University of Tsukuba, Japan)	960
Distributed Association Control and Relaying in MillimeterWave Wireless Networks	
Yuzhe Xu (KTH Royal Institute of Technology, Sweden), George Athanasiou (ICCS - NTUA, Greece), Carlo Fischione (KTH, Sweden), Leandros Tassiulas (Yale University, USA)	. 966
Congestion Control in the Recursive InterNetworking Architecture (RINA)	
Peyman Teymoori (University of Oslo, Norway), Michael Welzl (University of Oslo, Norway), Stein Gjessing (University of Oslo & Simula Research Lab., Norway), Eduard Grasa (Fundació i2CAT, Internet i Innovació Digital a Catalunya, Spain), Roberto Riggio (Create-Net, Italy), Kewin Rausch (CREATE-NET, Italy), Domenico Siracusa (CREATE-NET, Italy)	. 972
Coverage Analysis of Heterogeneous Cellular Networks in Urban Areas	
Bin Yang (Huazhong University of Science & Technology, P.R. China), Guoqiang Mao (The University of Technology, Sydney, Australia), Ge Xiaohu (Huazhong University of Science & Technology, P.R. China), Hsiao-Hwa Chen (National Cheng Kung University, Taiwan), Tao Han (Huazhong University of Science and Technology, P.R. China), Xuefei Zhang (Beijing University of Posts and Telecommunications, P.R. China)	. 979
Efficient 3-D Placement of an Aerial Base Station in Next Generation Cellular Networks	
Irem Bor-Yaliniz (Carleton University, Canada), Amr El-Keyi (Carleton University, Canada), Halim Yanikomeroglu (Carleton University, Canada)	. 985

ICC'16 ONS: IEEE ICC 2016 - Optical Networks and Systems

Visible Light and Optical Wireless Communications I

Generalized LED Index Modulation Optical OFDM for MIMO Visible Light Communications Systems	
Ertugrul Basar (Istanbul Technical University, Turkey), Erdal Panayirci (Kadir Has University, Turkey), Murat Uysal (Ozyegin University, Turkey), Harald Haas (The University of Edinburgh, United Kingdom)	990
Cramer-Rao Bound for Indoor Visible Light Positioning Using an Aperture-Based Angular- Diversity Receiver	
Heidi Steendam (Ghent University, Belgium), Thomas Wang (Monash University, Australia), Jean Armstrong (Monash University, Australia)	995
Fuzzy Logic Based Dynamic Handover Scheme for Indoor Li-Fi and RF Hybrid Network	
Yunlu Wang (The University of Edinburgh, United Kingdom), Xiping Wu (The University of Edinburgh, United Kingdom), Harald Haas (The University of Edinburgh, United Kingdom)	1001
Novel Spectral Efficient OFDM for Optical Wireless Communication	
Rui Guan (Southeast University, P.R. China), Nuo Huang (Southeast University, P.R. China), Houyu Wang (Southeast University, P.R. China), Jin-Yuan Wang (Nanjing University of Posts and Telecommunications, P.R. China), Ming Chen (Southeast University, P.R. China)	1007
QoS-Aware Joint Power Allocations and Relay Selection for NLOS Coherent Optical Wireless Communications	
Md. Zoheb Hassan (School of Engineering, University of British Columbia, Canada), Victor C.M. Leung (University of British Columbia, Canada), Md. Jahangir Hossain (University of British Columbia, Okanagan, Canada), Julian Cheng (University of British Columbia, Canada)	1013

ICC'16 SAC-3 DS: IEEE ICC 2016 SAC Data Storage

Distributed Data Storage (Interactive)

	Irregular Flat XOR Codes for Reducing Repair Bandwidth of Multi-Point Distributed Storage Systems	
	Yui Yoshida (NTT, Japan), Takayuki Nakachi (NTT, Japan), Daisuke Shirai (NTT Network Innovation Laboratories, Japan), Tatsuya Fujii (NTT Network Innovation Laboratories, Japan)	020
	Yuhao Wen (Duke University, USA), Han Wang (Tsinghua University, P.R. China), Zhen Chen (Tsinghua University & Research Institute of Information Technology and Tsinghua National Lab for Information Science and Technologies, P.R. China), Junwei Cao (Tsinghua University, P.R. China), Guodong Peng (Tsinghua University, P.R. China), Wen-liang Huang (China Unicom, P.R. China), Ziwei Hu (State Grid Smart Grid Research Institute, P.R. China), Jinghong Guo (State Grid Smart	1026
	Composite Extension Finite Fields for Distributed Storage Erasure Coding	
	Janus Heide (Steinwurf, Denmark)	.032
	Extremal Graphic Model in Optimizing Fractional Repetition Codes for Efficient Storage Repair Guangping Xu (Tianjin University of Technology, P.R. China), Qunfang Mao (Tianjin University of Technology, P.R. China), Sheng Lin (Tianjin University of Technology, P.R. China), Kai Shi (Tianjin University of Technology, P.R. China), Hua Zhang (Tianjin University of Technology, P.R. China)	1037
	- I. C. C. III. C. IIII. C. III. C. II	.037
ICC'16 S/	AC-4 E-HLT: IEEE ICC 2016 SAC E-Health	
E-Health (In	nteractive)	
	Personal Health Records as Sources of Productivity Evidence	
	Mahesh Fernando (Queensland University of Technology, Australia), Tony R Sahama	

(Queensland University of Technology & IEEE ACM IBS ACS SSAInc HISA, Australia), Colin Fidge (Queensland University of Technology, Australia), K Hewagamage (University of Colombo, Sri Lanka) 1043 Clinical Decision Support for Alzheimer's Disease based on Deep Learning and Brain Network Chenhui Hu (Harvard University, USA), Ronghui Ju (Huazhong University of Science and Technology, P.R. China), Yusong Shen (Rice University, USA), Pan Zhou (Huazhong University of Science and Technology, P.R. China), Quanzheng Li (Massachusetts General Hospital and Harvard Medical School, USA) A Vision-Based System to Detect Potholes and Uneven Surfaces for Assisting Blind People Aravinda S. Rao (The University of Melbourne, Australia), Jayavardhana Gubbi (Tata Consultancy Services & Innovation Labs, India), Marimuthu Palaniswami (University of

ICC'16 SAC-5 IoT: IEEE ICC 2016 SAC Internet of Things

Security and Trust in IoT

A Game Theoretic Model for Enabling Honeypots in IoT Networks	
La Quang Duy (Singapore University of Technology and Design, Singapore), Tony Q. S. Quek	
(Singapore University of Technology and Design, Singapore), Jemin Lee (Singapore University	
of Technology and Design (SUTD), Singapore)	1061

A Trust Model for Data Sharing in Smart Cities	
Quyet H. Cao (Telecom SudParis & Orange Labs, France), Imran Khan (Schneider Electric Industries SAS, France), Reza Farahbakhsh (Institut Mines-Telecom, Telecom SudParis, France), Giyyarpuram Madhusudan (Orange Labs, France), Gyu Myoung Lee (Liverpool John Moores University, United Kingdom), Noel Crespi (Institut Mines-Télécom, Télécom SudParis, France)	1067
Quantifying Trust Relationships based on Real-World Social Interactions	
Niklas Palaghias (University of Surrey, United Kingdom), Nikos Loumis (University of Surrey, Guildford, United Kingdom), Stylianos Georgoulas (University of Surrey & Faculty of Engineering and Physical Sciences, United Kingdom), Klaus Moessner (University of Surrey, United Kingdom)	1074
Collaborative KP-ABE for Cloud-Based Internet of Things Applications	
Lyes Touati (University of Technology of Compiègne & UTC, France), Yacine Challal (University of Technology of Compiegne & Heudiasyc lab. UMR CNRS, France)	1081
Smart, Secure and Seamless Access Control Scheme for Mobile Devices	
Yogachandran Rahulamathavan (City University London, United Kingdom), Muttukrishnan Rajarajan (City University London, United Kingdom), Raphael CW. Phan (Multimedia University, Malaysia)	1088

ICC'16 SAC-7 SSC: IEEE ICC 2016 SAC Satellite and Space Communications

Management

Genetic Inspired Scheduling Algorithm for Cognitive Satellite Systems	
Vincenzo Icolari (University of Bologna, Italy), Daniele Tarchi (University of Bologna, Italy), Alessandro Guidotti (University of Bologna, Italy), Alessandro Vanelli-Coralli (University of Bologna, Italy)	1094
Power and Rate Allocation in Cognitive Satellite Uplink Networks	
Eva Lagunas (University of Luxemburg - SnT, Luxembourg), Sina Maleki (University of Luxembourg, Luxembourg), Symeon Chatzinotas (University of Luxembourg, Luxembourg), Mojtaba Soltanalian (University of Illinois at Chicago, USA), Ana Pérez-Neira (CTTC, Spain), Björn Ottersten (University of Luxembourg, Luxembourg)	1100
On the Ergodic Capacity of Multiple Antenna Cognitive Satellite Terrestrial Networks	
Kang An (College of Communications Engineering, PLA University of Science and Technology, P.R. China), Min Lin (Nanjing Institute of Telecommunication Technology, P.R. China), Tao Liang (Nanjing Telecommunication Technology Institute, P.R. China), Jian Ouyang (Nanjing University of Posts and Telecommunications & Concordia University, P.R. China), Wei-Ping Zhu (Concordia University, Canada)	1106
An Anonymous Distributed Key Management System Based on CL-PKC for Space Information Network	
Yuchen Liu (Shanghai Jiao Tong University, P.R. China), Aixin Zhang (Shanghai Jiao Tong University, P.R. China), Jianhua Li (Shanghai Jiao Tong University, P.R. China), Jun Wu (Shanghai Jiao Tong University, P.R. China)	1111
Trade-off between spectral efficiency increase and PAPR reduction when using FTN Signaling: impact of non linearities	
Jean-Alain Lucciardi (University of Toulouse & IRT Saint Exupery, France), Nathalie Thomas (University of Toulouse, France), Marie-Laure Boucheret (University of Toulouse IRIT Enseeiht, France), Charly Poulliat (INP - ENSEEIHT Toulouse, France), Gilles Mesnager (IRT St	
Exupery, France)	1118

ICC'16 SPC: IEEE ICC 2016 - Signal Processing for Communications Symposium

Millimeter-wave Communications

Max-Min Hybrid Precoding in Millimeter Wave Cooperative MISO Systems	
Chang-Shen Lee (Academia Sinica, Taiwan), Wei-Ho Chung (Academia Sinica, Taiwan)	1125
Hybrid MMSE Precoding for mmWave Multiuser MIMO Systems	
Duy H. N. Nguyen (University of Texas, Austin, USA), Long Bao Le (INRS, University of Quebec, Canada), Tho Le-Ngoc (McGill University, Canada)	1131
Hybrid Beamforming Design for Millimeter-Wave Multi-User Massive MIMO Downlink	
Zheda Li (University of Southern California, USA), Shengqian Han (Beihang University, P.R. China), Andreas Molisch (University of Southern California, USA)	1137
Enabling Low-Resolution ADC with High-Order Modulations for Millimeter-Wave Systems	
Umut Ugurlu (Aalto University, Finland), Risto Wichman (Aalto University School of Electrical Engineering, Finland)	1143
Cross-Layer Energy-Efficiency Optimization for Multiuser Full-Duplex Decode-and-Forward Indoor Relay Networks at 60 GHz	
Zhongxiang Wei (University of Liverpool & School of EE and CS, United Kingdom), Xu Zhu (University of Liverpool, United Kingdom), Sumei Sun (Institute for Infocomm Research, Singapore), Yi Huang (University of Liverpool, United Kingdom), Hai Lin (Osaka Prefecture University, Japan)	1149

ICC'16 WCS: IEEE ICC 2016 - Wireless Communications Symposium

MIMO I

Li	ne-of-Sight Based Statistical 3D Beamforming for Downlink Massive MIMO Systems	
	Xiao Li (Southeast University, P.R. China), Shi Jin (Southeast University, P.R. China), Himal A Suraweera (University of Peradeniya, Sri Lanka), Xiqi Gao (Southeast University, P.R. China)	1155
TI	he Performance of Wireless Powered MIMO Relaying Systems with Energy Beamforming	
	Ahmed M Almradi (The University of Manchester, United Kingdom), Khairi A. Hamdi (University of Manchester, United Kingdom)	1161
	erformance and Analysis of Downlink Multiuser MIMO Systems With Regularized Zero-Forcing recoding in Ricean Fading Channels	
	Harsh Tataria (Victoria University of Wellington, New Zealand), Peter J Smith (Victoria University of Wellington, New Zealand), Larry J. Greenstein (Rutgers University, USA), Pawel A. Dmochowski (Victoria University of Wellington, New Zealand), Mansoor Shafi (Spark New Zealand Ltd & Victoria University, Wellington, New Zealand)	1167
Ir	nterference Alignment and Power Allocation for Multi-User MIMO Interference Channels	
	Fereidoun H. Panahi (Keio University, Japan), Tomoaki Ohtsuki (Keio University, Japan), Wenjie Jiang (NTT Network Innovation Laboratories, Japan), Yasushi Takatori (NTT Network Innovation Laboratories, Japan), Kazuhiro Uehara (NTT, Japan)	1174
Α	3-D Wideband Multi-Confocal Ellipsoid Model for Wireless MIMO Communication Channels	
	Lu Bai (Shangdong University, P.R. China), Chengxiang Wang (Heriot-Watt University, United Kingdom), Shangbin Wu (Samsung R&D Institute UK, United Kingdom), Haowen Wang (Shanghai Research Center for Wireless Communications, P.R. China), Yang Yang (Shanghai Reserach Center for Wireless Communication, P.R. China)	1181

Device to Device Communications I

Modeling Uplink Coverage and Rate with Aggregation in Machine-to-Machine Communication Networks	
Derya Malak (The University of Texas at Austin, USA), Harpreet S Dhillon (Virginia Tech, USA), Jeffrey Andrews (The University of Texas at Austin, USA)	1187
User Access Mode Selection in Fog Computing Based Radio Access Networks	
Shi Yan (Beijing University of Posts and Telecommunications, P.R. China), Mugen Peng (Beijing University of posts & Telecommunications, P.R. China), Wenbo Wang (Beijing University of Posts and Telecommunications, P.R. China)	1193
Interference-insensitive Synchronization for MSK in Transmit-only Wireless Sensor Networks	
Qiongjie Lin (Georgia Institute of Technology, USA), Mary Ann Weitnauer (Georgia Tech, USA), Sajith Mohan (Georgia Institute of Technology, USA)	1199
Device-to-Device Communication in Cellular Networks under Statistical Queueing Constraints	
Yi Li (Syracuse University, USA), M. Cenk Gursoy (Syracuse University, USA), Senem Velipasalar (Syracuse University, USA)	1205
k-Closest Coverage Probability and Area Spectral Efficiency in Clustered D2D Networks	
Mehrnaz Afshang (Virigina Tech, USA), Harpreet S Dhillon (Virginia Tech, USA), Peter Han Joo Chong (Auckland University of Technology, New Zealand)	1211
Cooperative Networks and Relaying Communications II	
Power Splitting and Relay Optimization for Two-way Relay SWIPT Systems	
Ruixue Hu (The Chinese University of Hong Kong, Hong Kong), Tat M. Lok (The Chinese University of Hong Kong, Hong Kong)	1217
Energy Efficient Design for Non-Orthogonal AF Relaying in Underlay Spectrum Sharing Networks	
Mahmoud Elsaadany (Concordia University, Canada), Walaa Hamouda (Concordia University, Canada)	1223
Channel Modelling of Molecular Communications Across Blood Vessels and Nerves	
Peng He (University of Electronic Science and Technology of China, P.R. China), Yuming Mao (SCIE, P.R. China), Qiang Liu (University of Electronic Science and Technology of China, P.R. China), Pietro Lio` (University of Cambridge, United Kingdom), Kun Yang (University of Essex, United Kingdom)	1229
Wireless-Powered Cooperative Communications with Buffer-aided Relay	
Sheng Luo (Nanyang Technological University & EEE, Singapore), Kah Chan Teh (Nanyang Technological University, Singapore), Wei Wang (Nanyang Technological University, Singapore)	1235
Singapore)	1233
Jules Merlin Mouatcho Moualeu (University of the Witwatersrand, South Africa), Walaa Hamouda (Concordia University, Canada), Fambirai Takawira (University of the Witwatersrand, South Africa)	1241
	1671
Energy Harvesting I	
g,g.	
A Multi-Relay Selection Scheme for Time Switching Energy Harvesting Two-Way Relaying Systems	
Hakim Ghazzai (Qatar Mobility Innovations Center & QMIC, Qatar), Ahmad Alsharoa (Iowa State University, USA), Ahmed E. Kamal (Iowa State University, USA), Abdullah Kadri (Qatar Mobility Innovations Center, Qatar)	1247

	Harvesting Full-Duplex Rate Gains in Cellular Networks with Half-Duplex User Terminals	
	Ahmad M AlAmmouri (King Abdullah University of Science and Technology, Saudi Arabia), Hesham ElSawy (King Abdullah University of Science and Technology (KAUST), Saudi Arabia),	
	Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi Arabia)	. 1253
	Sparse Beamforming for Real-time Energy Trading in CoMP-SWIPT Networks	
	Wan Nur Suryani Firuz Wan Ariffin (King's College London, United Kingdom), Xinruo Zhang (King's College London, United Kingdom), Mohammad Reza Nakhai (King's College London, United Kingdom)	. 1260
	Optimal Design of Non-Orthogonal Multiple Access with Wireless Power Transfer	
	Panagiotis D. Diamantoulakis (Aristotle University of Thessaloniki, Greece), Koralia N. Pappi (Aristotle University of Thessaloniki, Greece), Zhiguo Ding (Lancaster University, United Kingdom), George K. Karagiannidis (Aristotle University of Thessaloniki, Greece)	. 1266
	Trade-offs in Analog Sensing and Communication in RF Energy Harvesting Wireless Sensor Networks	
	M. P. Praveen (Indian Institute of Science, India), Neelesh B. Mehta (Indian Institute of Science, India)	. 1272
Featured	Wireless Communications: RFID and UAV (Interactive)	
	Routing Mobile Data Couriers in Smart-cities	
	Fadi M. Al-Turjman (Middle East Technical University, NCC, Turkey), Mehmet Karakoc (Akdeniz University, Turkey), Melih Gunay (Akdeniz University, Turkey), Aboelmagd Noureldin (RMC Canada, Canada)	. 1278
	Transmit Optimization for Secure MIMO RFID Wireless Communication	
	Qian Yang (Xi'an Jiaotong University, P.R. China), Yi Zhang (Xi'an Jiaotong Unviersity & Ecole Centrale de Nantes, P.R. China), Hui-Ming Wang (Xi'an Jiaotong University, P.R. China), Zhu Han (University of Houston, USA)	. 1284
	Optimal Transport Theory for Power-Efficient Deployment of Unmanned Aerial Vehicles	
	Mohammad Mozaffari (Virginia Tech, USA), Walid Saad (Virginia Tech, USA), Mehdi Bennis (Centre of Wireless Communications, University of Oulu, Finland), Mérouane Debbah (Huawei, France)	1200
ICC'16	AHSN: IEEE ICC 2016 Ad-hoc and Sensor Networking Symposium	
	ion, Tracking and Mobility	
	MIL: A Mobile Indoor Localization Scheme Based on Matrix Completion	
	Jie Cheng (University of Prince Edward Island, Canada), Zeqi Song (Harbin Institute of Technology Shenzhen Graduate School, P.R. China), Qiang Ye (University of Prince Edward Island, Canada), Hongwei Du (Harbin Institute of Technology Shenzhen Graduate School, P.R. China)	. 1296
	Accurate Indoor Localization with Crowd Sensing	
	Yingying Guo (Beijing University of Posts and Telecommunications, P.R. China), Yan Sun (Beijing University of Posts and Telecommunications, P.R. China), Yatao Li (Beijing University of Posts and Telecommunications, P.R. China), Tin-Yu Wu (National Ilan University, Taiwan), Mohammad S. Obaidat (Fordham University, USA)	. 1301
	Low-overhead Range-based 3D Localization Technique for Underwater Sensor Networks	
	Md Yusuf Sarwar Uddin (Bangladesh University of Engineering and Technology, Bangladesh)	. 1308
	Distributed Vehicle Selection for Non-Range Based Cooperative Positioning in Urban Environments	
	Anas Mahmoud (Queen's University, Canada), Aboelmagd Noureldin (RMC Canada, Canada), Hossam S. Hassanein (Queen's University, Canada)	. 1314

Power Allocation in Asynchronous Location-aware Sensor Networks	
Jiaxiang Li (Harbin Institute of Technology, Shenzhen Graduate School, P.R. China), Tingting Zhang (Harbin Institute of Technology, Shenzhen Graduate School, P.R. China), Andreas Molisch (University of Southern California, USA), Qinyu Zhang (Shenzhen Graduate School, Harbin Institute of Technology, P.R. China)	1320
Security and Privacy	
On the Security Region of Best Source Indices in Random Wireless Networks	
Satyanarayana Vuppala (University of Edinburgh, United Kingdom), Sudip Biswas (University of Edinburgh, United Kingdom), Tharmalingam Ratnarajah (The University of Edinburgh, United Kingdom), Mathini Sellathurai (Heriot-Watt University, United Kingdom)	1326
Relay Selection for Enhancing Wireless Security-Reliability Tradeoff in the Presence of Channel Estimation Errors	
Xiaojin Ding (Southeast University, P.R. China), Tiecheng Song (National Mobile Communications Research Laboratory, Southeast University, P.R. China), Yulong Zou (Nanjing University of Posts and Telecommunications, P.R. China), Xiaoshu Chen (University of Southeast, P.R. China)	1332
Security/QoS-Aware Route Selection in Multi-hop Wireless Ad Hoc Networks	
Yang Xu (Xidian University, P.R. China), Jia Liu (Future University Hakodate, Japan), Yulong Shen (Xidian University, P.R. China), Xiaohong Jiang (Future University-Hakodate, Japan), Tarik Taleb (Aalto University, Finland)	1338
Multi-objective optimization for Security and QoS adaptation in Wireless Sensor Networks Abderrezak Rachedi (University Paris-Est Marne-la-Vallée, France), Abderrahim Benslimane (French University in Egypt - Centre de Recherche en Informatique (CRI), France)	
Room-Level Proximity Detection Based on RSS of Dual-Band Wi-Fi Signals Agata Yugo (Keio University, Japan), Jihoon Hong (Kanagawa Institute of Technology, Japan), Tomoaki Ohtsuki (Keio University, Japan)	1351
ICC'16 CISS: IEEE ICC 2016 Communication and Information Systems Security Symposium Internet Security II	
A Probabilistic Model to Preprocess Darknet Data for Cyber Threat Intelligence Generation Elias Bou-Harb (The National Cyber Forensics and Training Alliance (NCFTA) Canada & Florida Atlantic University, USA)	1357
On Crowd-Retweeting Spamming Campaign in Social Networks	
Bo Liu (Southeast University, P.R. China), Luo Junzhou (Southeast University, P.R. China), Jiuxin Cao (Southeast University, P.R. China), Xudong Ni (Southeast University, P.R. China), Benyuan Liu (University of Massachusetts Lowell, USA), Xinwen Fu (University of Massachusetts Lowell, USA)	1363
Using Anomaly Detection Based Techniques to Detect HTTP-based Botnet C&C Traffic	
Muhammad N Sakib (University of South Carolina, USA), Chin-Tser Huang (University of South Carolina, USA)	1369
Spectral Analysis of Low Rate of Denial of Service Attacks Detection based on Fisher and Siegel Tests	
Paul Cotae (University of the District of Columbia, USA), Myong Kang (Naval Research Lab, USA), Alexander Velazquez (Naval Research Laboratory, USA)	1375

BoobyTrap: On Autonomously Detecting and Characterizing Crawlers in P2P Botnets	
Shankar Karuppayah (Technische Universität Darmstadt & Center for Advanced Security	
Research Darmstadt & NAv6, Universiti Sains Malaysia, Germany), Emmanouil	
Vasilomanolakis (Technische Universität Darmstadt, Germany), Steffen Haas (University	
Muenster, Germany), Max Muehlhaeuser (Technical University Darmstadt, Germany), Mathias	
Fischer (University Muenster, Germany)	1381

ICC'16 CQRM: IEEE ICC 2016 - Communication QoS, Reliability and Modeling Symposium

SDN/NFV

Fast Failover and Switchover for Link Failures and Congestion in Software Defined Networking Ying-Dar Lin (National Chiao Tung University, Taiwan), Hung-Yi Teng (National Chiao Tung University, Taiwan), Chia-Rong Hsu (National Chiao Tung University, Taiwan), Chun-Chieh	
Liao (National Chiao Tung University, Taiwan), Yuan-Cheng Lai (Information Management, NTUST, Taiwan)	1388
A Declarative Failure Recovery System in Software Defined Networks	
Hengtong Li (Graduate School at ShenZhen, Tsinghua University, 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), Ting Zhang (Graduate School at ShenZhen, Tsinghua University, P.R. China), Lei Wang (Graduate School at Shenzhen, Tsinghua University, P.R. China)	1394
Bandwidth Calendaring: Dynamic Services Scheduling over Software Defined Networks	
Lazaros Gkatzikis (Mathematical and Algorithmic Sciences Lab, France Research Center, Huawei Technologies Co. Ltd., France), Stefano Paris (Huawei Technologies Co. Ltd. & Université Paris Descartes, France), Ioannis Stiakogiannakis (Mathematical and Algorithmic Sciences Lab, France Research Center, Huawei Technologies Co. Ltd., France), Symeon Chouvardas (University of Athens, Greece)	1400
Lightweight admission control and traffic management with SDN	
Paulo F Pinto (Universidade Nova de Lisboa, Portugal), Rui Cardoso (FCT - Universidade Nova de Lisboa, Portugal), Pedro Amaral (Universidade Nova de Lisboa, Portugal), Luis Bernardo (Universidade Nova de Lisboa, Portugal)	1407
Dynamic Strict Fractional Frequency Reuse for Software-Defined 5G Networks	
Anteneh A. Gebremariam (University of Trento, Italy), Tingnan Bao (University of Trento, Italy), Domenico Siracusa (CREATE-NET, Italy), Tinku Rasheed (Create-Net Research, Italy), Fabrizio Granelli (University of Trento, Italy), Leonardo Goratti (Create-net, Italy)	1414
Communication QoS, Reliability and Modeling (Interactive)	
Significance of Channel Failures on Network Performance in CRNs with Reserved Spectrum	
Indika A. M. Balapuwaduge (University of Agder, Norway), Frank Y. Li (University of Agder, Norway), Vicent Pla (Universitat Politecnica de Valencia, Spain)	1420
Reducing web latency through TCP IW: be smart	
Renaud Sallantin (Thales Alenia Space, France), Cédric Baudoin (Thales Alenia Space, France), Emmanuel Chaput (Irit-Enseeiht, France), Fabrice Arnal (Thales Alenia Space, France), Emmanuel Dubois (CNES, France), André-Luc Beylot (University of Toulouse, France)	1426
A Preeclampsia Diagnosis Approach using Bayesian Networks	
Mário W. L. Moreira (University of Beira Interior, Portugal), Joel J. P. C. Rodrigues (Instituto de Telecomunicações, University of Beira Interior, Portugal), Antonio Oliveira (Federal Institute of Ceara, Brazil), Ronaldo Ramos (Federal Institute of Ceara, Brazil), Kashif Saleem (King Saud University, Saudi Arabia)	1432

FBR: Fleet Based video Retrieval in 3G and 4G enabled Vehicular Ad Hoc Networks	
Muhammad Azfar Yaqub (Kyungpook National University, Korea), Syed Hassan Ahmed	
(Kyungpook National University, Korea), Safdar Hussain Bouk (Kyungpook National	
University, Korea), Dongkyun Kim (Kyungpook National University, Korea) 1	1437

ICC'16 CRN: IEEE ICC 2016 - Cognitive Radio and Networks Symposium

Resource Management II

Energy Efficient Optimization for Physical Layer Security in Cognitive Relay Networks Jian Ouyang (Nanjing University of Posts and Telecommunications & Concordia University, P.R. China), Wei-Ping Zhu (Concordia University, Canada), Daniel Massicotte (Universite du Quebec a Trois-Rivieres, Canada), Min Lin (Nanjing Institute of Telecommunication Technology, P.R. China)	1443
ASCH: A Novel Asymmetric Synchronous Channel Hopping Algorithm for Cognitive Radio Networks	
Sulagna Mohapatra (Chang Gung University, Taiwan), Prasan Kumar Sahoo (Chang Gung University, Taiwan)	1449
SAMER+: Balancing short term throughput and long term stability in cognitive radio mesh networks	
Li Sun (University at Buffalo, USA), Selvaganesh Dharmeswaran (University at Buffalo, SUNY, USA), Aswin Gokulachandran (University at Buffalo, SUNY, USA), Ashish Kumar (University at Buffalo, SUNY, USA), Dimitrios Koutsonikolas (University at Buffalo, SUNY, USA)	1455
Socially-aware E-Box Deployment Schemes for Joint Data Forwarding and Energy Harvesting	
Bo Fan (University of Electronic Science and Technology of China, P.R. China), Supeng Leng (University of Electronic Science and Technology of China, P.R. China), Kun Yang (University of Essex, United Kingdom), Qin Yu (University of Electronic Science and Technology of China, P.R. China)	. 1461
Massive MIMO based underlay networks with power control	
Sachitha Kusaladharma (University of Alberta, Canada), Chintha Tellambura (University of Alberta, Canada)	. 1467

ICC'16 CT: IEEE ICC 2016 - Communications Theory

Channel Modeling & Performance

Revisiting the Capacity of Noncoherent Fading Channels in mmWave System	
Guido C. Ferrante (Singapore University of Technology and Design, and Massachusetts Institute of Technology, Singapore), Tony Q. S. Quek (Singapore University of Technology and Design, Singapore), Moe Win (Massachusetts Institute of Technology, USA)	1473
SIR Asymptotics in Poisson Cellular Networks without Fading and with Partial Fading	
Radha Krishna Ganti (Indian Institute of Technology Madras, India), Martin Haenggi (University of Notre Dame, USA)	1479
Tracking Angles of Departure and Arrival in a Mobile Millimeter Wave Channel	
Chuang Zhang (Tsinghua University, P.R. China), Dongning Guo (Northwestern University, USA), Pingyi Fan (Tsinghua University, P.R. China)	1484
Modeling Cellular Networks in Fading Environments with Dominant Specular Components	
Ahmad M AlAmmouri (King Abdullah University of Science and Technology, Saudi Arabia), Hesham ElSawy (King Abdullah University of Science and Technology (KAUST), Saudi Arabia), Ahmed Sultan (KAUST, Saudi Arabia), Marco Di Renzo (Paris-Saclay University / CNRS, France), Mohamed-Slim Alouini (King Abdullah University of Science and Technology	
(KAUST), Saudi Arabia)	1490

On the Accuracy of Interference Models in Wireless Communications	
Hossein Shokri-Ghadikolaei (KTH Royal Institute of Technology, Sweden), Carlo Fischione (KTH, Sweden), Eytan Modiano (MIT, USA)	1497
(11.1, 21.22.1, 27.21.1.12.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	
Coding (Interactive)	
Quantization for Distributed Binary Detection under Secrecy Constraints	
Maggie Mhanna (CNRS-CentraleSupelec-Université Paris Sud & Laboratoire de Signaux et Systèmes, France), Pierre Duhamel (Lss Supelec & CNRS, France), Pablo Piantanida (CentraleSupélec-CNRS-Université Paris-Sud, France)	1503
Optimum Message Mapping LDPC Decoders derived from the Sum-Product Algorithm	
Jan Lewandowsky (Hamburg University of Technology, Germany), Maximilian Stark (Hamburg University of Technology, Germany), Gerhard Bauch (Hamburg University of Technology, Germany)	1509
Decoding Network Codes using the Sum-Product Algorithm	1303
B. Sundar Rajan (Indian Institute of Science, India), Anindya Gupta (Indian Institute of Science, India)	1515
Distributed Rateless Codes for Correlated Multi-Source Relay Networks	
Iqbal Hussain (Sweden, Sweden), Markku Juntti (University of Oulu, Finland), Tad Matsumoto (CWC - Oulu, Finland)	1522
LTE and Beyond 1 Multiuser Superposition Transmission (MUST) for LTE-A Systems	
Heunchul Lee (SoC Development, Samsung Electronics, Korea), Sungsoo Kim (Samsung Electronics Co., Ltd, Korea), Jong-Han Lim (Samsung Electronics, Korea)	1528
Unlicensed LTE/WiFi Coexistence: Is LBT Inherently Fairer Than CSAT?	. = = .
Cristina Cano (Trinity College Dublin, France), Douglas Leith (Trinity College Dublin, Ireland)	1534
Takeshi Hashimoto (KDDI R&D Laboratories, Inc., Japan), Takeshi Kubo (KDDI R&D Laboratories, Inc., Japan), Yoshinori Kitatsuji (KDDI R&D Laboratories Inc., Japan)	1540
Base Stations	
Omid Semiari (Virginia Tech, USA), Walid Saad (Virginia Tech, USA), Mehdi Bennis (Centre of Wireless Communications, University of Oulu, Finland)	1546
Quality of Service Interworking over Heterogeneous Networks in 5G Alaa Al-Shaikhli (University of New Haven, USA), Amir Esmailpour (University of New Haven	
& Ryerson University, USA), Nidal Nasser (Alfaisal University, Saudi Arabia)	1552
Multiple Access	
Joint User Pairing and Power Allocation for Downlink Non-Orthogonal Multiple Access Systems	
Jie Mei (Beijing University of Posts & Telecommunications, P.R. China), Lei Yao (Beijing University of Posts & Telecommunications, P.R. China), Hang Long (Beijing University of Posts & Telecommunications, P.R. China), Kan Zheng (Beijing University of	
Posts&Telecommunications, P.R. China)	1558

Transmit Power Optimization for Prioritized Random Access in OFDMA Based Systems Taehoon Kim (Korea Advanced Institute of Science and Technology, Korea), Kab Seok Ko (KAIST, Korea), Dan Keun Sung (Korea Advanced Institute of Science and Technology, Korea)	1564
Proportional Fairness-Based Power Allocation and User Set Selection for Downlink NOMA Systems	
Fei Liu (RWTH Aachen University & Institute for Networked Systems, Germany), Petri Mähönen (RWTH Aachen University, Germany), Marina Petrova (RWTH Aachen University, Germany)	1570
Resource allocation in OFDMA networks with half-duplex and imperfect full-duplex users Peyman Tehrani (University of Tehran, Iran), Farshad Lahouti (Caltech Institute of Techlonogy, USA), Michele Zorzi (University of Padova, Italy)	1576
Radio Resource Allocation for Non-orthogonal Multiple Access (NOMA) Relay Network Using Matching Game	
Shuhang Zhang (Peking University, P.R. China), Boya Di (Peking University, P.R. China), Lingyang Song (Peking University, P.R. China), Yonghui Li (University of Sydney, Australia)	1582
NGN: IEEE ICC 2016 - Next-Generation Networking and Internet Sympo	sium
Weighted Network Traffic Offloading in Cache-enabled Heterogeneous Networks Xiuhua Li (The University of British Columbia, Canada), Xiaofei Wang (The University of British Columbia, Canada), Victor C.M. Leung (University of British Columbia, Canada)	158
Xiuhua Li (The University of British Columbia, Canada), Xiaofei Wang (The University of	158
Xiuhua Li (The University of British Columbia, Canada), Xiaofei Wang (The University of British Columbia, Canada), Victor C.M. Leung (University of British Columbia, Canada)	158
Xiuhua Li (The University of British Columbia, Canada), Xiaofei Wang (The University of British Columbia, Canada), Victor C.M. Leung (University of British Columbia, Canada)	
Xiuhua Li (The University of British Columbia, Canada), Xiaofei Wang (The University of British Columbia, Canada), Victor C.M. Leung (University of British Columbia, Canada)	159
Xiuhua Li (The University of British Columbia, Canada), Xiaofei Wang (The University of British Columbia, Canada), Victor C.M. Leung (University of British Columbia, Canada)	159
Xiuhua Li (The University of British Columbia, Canada), Xiaofei Wang (The University of British Columbia, Canada), Victor C.M. Leung (University of British Columbia, Canada)	159

ICC'16 C

Coding, Modulation, and Signal Processing in Optical Networks

Power Optimization of Multiple-wavelength Optical Wireless Scattering Communication Beiyuan Liu (University of Science and Technology of China, P.R. China), Chen Gong (USTC, P.R. China), Zhengyuan Xu (University of Science and Technology of China, P.R. China) 1618

Blind Adaptive Transmitter IQ Imbalance Compensation in M-QAM Optical Coherent Systems	
Trung-Hien Nguyen (CNRS FOTON (UMR 6082), University of Rennes 1, Enssat, France), Pascal Scalart (University of Rennes, France), Mathilde Gay (ENSSAT / Université de Rennes 1, France), Laurent Bramerie (Foton CNRS UMR & ENSSAT / Université de Rennes 1, France), Christophe Peucheret (University of Rennes 1, France), Ti Nguyen-Ti (University of Rennes 1, IRISA, France), Matthieu Gautier (University of Rennes 1, IRISA, France), Olivier Sentieys (University of Rennes 1, IRIA/IRISA, France), Jean-Claude Simon (FOTON Laboratory, CNRS, University of Rennes 1, ENSSAT, France), Michel Joindot (FOTON-ENSSAT / University of Rennes 1/ CNRS, France)	1625
On the Channel Capacity of Polarization-Multiplexed Coherent Radio-over-Fiber Transmissions at Millimeter-wave Bands	
Yuki Yoshida (National Institute of Information and Communications Technology, Japan), Yukihiro Takami (Osaka University, Japan), Shohei Inudo (Osaka University, Japan), Ken'ichi Kitayama (The Graduate School for the Creation of New Photonics Industries, Japan), Atsushi Kanno (National Institute of Information and Communications Technology, Japan), Naokatsu Yamamoto (National Institute of Information and Communications Technology, Japan), Tetsuya Kawanishi (Waseda University & National Institute of Information and Communications Technology, Japan)	1631
Polarization Shift Keying with Pulse Position Modulation over Atmospheric Turbulence Channels Tuğba Özbilgin (Bogazici University & TUBITAK Uekae, Turkey), Mutlu Koca (Bogazici University, Turkey)	1637
Quantization and Feedback of Principal Modes for High Speed Multimode Fiber Links	1037
Rajesh Mishra (Indian Institute of Technology Bombay, India), Jinesh Jacob (Indian Institute of Technology Bombay, India), Kumar Appaiah (Indian Institute of Technology Bombay, India)	1643

ICC'16 SAC-1 ASN: IEEE ICC 2016 SAC Access Systems and Networks

Access Systems and Networks (Interactive)

Performance of a Dual Sensor based interference Cancellation Scheme for Downstream DSL	
S M Zafaruddin (Ikanos Communications (India) Private Limited, Israel), Laurent Pierrugues (Ikanos Communications, Inc., USA)	1649
Dynamics of Two Antiparallel TCP Connections on an Asymmetric Link	
Tristan Braud (LIG, France), Martin Heusse (Grenoble Informatics Laboratory & Grenoble INP, France), Andrzej Duda (Grenoble Institute of Technology, France)	1655
Pricing the fast-lanes: A qualitative study on the implications of paid peering agreements	
Costas Courcoubetis (Athens University of Economics and Business, Greece), Kostas Sdrolias (Athens University of Economics and Business, Greece), Richard Weber (Cambridge University, United Kingdom)	1661
Packet Throughput Performance of Multiservice, Multirate OCDMA in Elastic Networks	
Thiago R Raddo (Technical University of Denmark & University of Sao Paulo, Denmark), Anderson Sanches (University of the Reconcavo of the Bahia - UFRB, Brazil), Idelfonso Tafur Monroy (Technical University of Denmark & ITMO University, Denmark), Ben-Hur V Borges	
(Universidade de São Paulo & Escola de Engenharia de São Carlos, Brazil)	1667

ICC'16 SAC-6 CSG: IEEE ICC 2016 SAC Communications for the Smart Grid

Communications for the Smart Grid

	Jingchao Bao (The University of Tennessee, USA), Husheng Li (University of Tennessee,
	USA)
	Secure and Privacy-Aware Proxy Mobile IPv6 Protocol for Vehicle-to-Grid Networks Mahmoud Hashem Eiza (University of Central Lancashire, United Kingdom), Qi Shi (Liverpool John Moores University, United Kingdom), Thomas Owens (Brunel University, United Kingdom), Angelos K. Marnerides (Liverpool John Moores University, United Kingdom)
	Multiarea State Estimation with Legacy and Synchronized Measurements
	Javier Matamoros (Centre Tecnologic de Telecomunicacions de Catalunya, Spain), Achilleas Tsitsimelis (Centre Tecnologic de Telecomunicacions de Catalunya, Spain), Maria Gregori (CTTC, Spain), Carles Antón-Haro (Centre Tecnologic de Telecomunicacions de Catalunya (CTTC), Spain)
	Energy-Efficient Gateway On-Off Switching Scheme in Cognitive Radio Based Smart Grid Networks
	Chao Yang (The Hong Kong Polytechnic University, P.R. China), Wei Lou (The Hong Kong Polytechnic University, Hong Kong), Junmei Yao (the HONG KONG Polytechnic University, Hong Kong)
	Enabling IEC 61850 Communication Services over Public LTE Infrastructure
	Charalampos Kalalas (CTTC, Spain), Lazaros Gkatzikis (Mathematical and Algorithmic Sciences Lab, France Research Center, Huawei Technologies Co. Ltd., France), Carlo
CC'16 S	Fischione (KTH, Sweden), Per Ljungberg (Ericsson Research, Sweden), Jesus Alonso-Zarate (Centre Tecnologic de Telecomunicacions de Catalunya - CTTC, Spain) AC-5 IoT: IEEE ICC 2016 SAC Internet of Things
	Fischione (KTH, Sweden), Per Ljungberg (Ericsson Research, Sweden), Jesus Alonso-Zarate (Centre Tecnologic de Telecomunicacions de Catalunya - CTTC, Spain)
	Fischione (KTH, Sweden), Per Ljungberg (Ericsson Research, Sweden), Jesus Alonso-Zarate (Centre Tecnologic de Telecomunicacions de Catalunya - CTTC, Spain) AC-5 IoT: IEEE ICC 2016 SAC Internet of Things Things (Interactive) Selective Compressed Sensing: Another Compressed Sensing Approach for Frequency-Domain
	Fischione (KTH, Sweden), Per Ljungberg (Ericsson Research, Sweden), Jesus Alonso-Zarate (Centre Tecnologic de Telecomunicacions de Catalunya - CTTC, Spain) AC-5 IoT: IEEE ICC 2016 SAC Internet of Things Things (Interactive) Selective Compressed Sensing: Another Compressed Sensing Approach for Frequency-Domain Analysis Fuminori Okuya (The University of Tokyo, Japan), Yoshihiro Kawahara (The University of
	Fischione (KTH, Sweden), Per Ljungberg (Ericsson Research, Sweden), Jesus Alonso-Zarate (Centre Tecnologic de Telecomunicacions de Catalunya - CTTC, Spain) GAC-5 IoT: IEEE ICC 2016 SAC Internet of Things Things (Interactive) Selective Compressed Sensing: Another Compressed Sensing Approach for Frequency-Domain Analysis Fuminori Okuya (The University of Tokyo, Japan), Yoshihiro Kawahara (The University of Tokyo, Japan), Tohru Asami (The University of Tokyo, Japan) Distributed Node Consensus Protocol: Analysis, Evaluation and Performance
	Fischione (KTH, Sweden), Per Ljungberg (Ericsson Research, Sweden), Jesus Alonso-Zarate (Centre Tecnologic de Telecomunicacions de Catalunya - CTTC, Spain) GAC-5 IoT: IEEE ICC 2016 SAC Internet of Things Things (Interactive) Selective Compressed Sensing: Another Compressed Sensing Approach for Frequency-Domain Analysis Fuminori Okuya (The University of Tokyo, Japan), Yoshihiro Kawahara (The University of Tokyo, Japan), Tohru Asami (The University of Tokyo, Japan) Distributed Node Consensus Protocol: Analysis, Evaluation and Performance Kaiwen Jin (Ecole Polytechnique, France), Pierre Pfister (Cisco, France), Jiazi Yi (LIX, Ecole Polytechnique, France)
	Fischione (KTH, Sweden), Per Ljungberg (Ericsson Research, Sweden), Jesus Alonso-Zarate (Centre Tecnologic de Telecomunicacions de Catalunya - CTTC, Spain) AC-5 IoT: IEEE ICC 2016 SAC Internet of Things Things (Interactive) Selective Compressed Sensing: Another Compressed Sensing Approach for Frequency-Domain Analysis Fuminori Okuya (The University of Tokyo, Japan), Yoshihiro Kawahara (The University of Tokyo, Japan), Tohru Asami (The University of Tokyo, Japan) Distributed Node Consensus Protocol: Analysis, Evaluation and Performance Kaiwen Jin (Ecole Polytechnique, France), Pierre Pfister (Cisco, France), Jiazi Yi (LIX, Ecole

Antennas

Adaptive Handoff for Multi-Antenna Mobile Satellite Systems with Ancillary Terrestrial	
Component	
Gervais N. Kamga (INRS, University of Quebec, Canada), Mirette Sadek (Ain Shams	
University, Egypt), Sonia Aïssa (INRS, University of Quebec, Canada)	172

An Adaptive Beam Control Technique for Diversity Gain Maximization in LEO Satellite to Ground	
Shigenori Tani (Mitsubishi Electric, Japan), Katsuyuki Motoyoshi (Mitsubishi Electric	
Corporation, Japan), Hiroyasu Sano (Mitsubishi Electric Corporation, Japan), Atsushi Okamura	
(Mitsubishi Electric Corporation, Japan), Hiroki Nishiyama (Tohoku University, Japan), Nei Kato (Tohoku University, Japan)	1727
A Novel Multiuser HAP-MIMO Channel Model Based on Birth-Death Process	. 1/2/
Zhuxian Lian (Shanghai Jiao Tong University, P.R. China), Lingge Jiang (Shanghai Jiao Tong	
University, P.R. China), Chen He (Shanghai Jiaotong University, P.R. China), Qi Xi (Shanghai	
Jiaotong University, P.R. China)	. 1732
Joint Predistortion and PAPR Reduction in Multibeam Satellite Systems	
Alberto Mengali (University of Luxembourg, Luxembourg), Bhavani Shankar Mysore R	
(Interdisciplinary Centre for Security, Reliability and Trust & University of Luxembourg,	
Luxembourg), Björn Ottersten (University of Luxembourg, Luxembourg)	. 1737
Spatial MIMO over Satellite: A Proof of Concept	
Christian A Hofmann (Munich University of the Bundeswehr, Germany), Kai-Uwe Storek	
(Munich University of the Bundeswehr, Germany), Robert T. Schwarz (Universität der	
Bundeswehr München, Germany), Andreas Knopp (Munich University of the Bundeswehr, Germany)	1744
55.116.11, j	. 17 11
ICC'16 SPC: IEEE ICC 2016 - Signal Processing for Communications Symposium	ım
Massive MIMO	
Compressive CSIT Estimation for Multi-user Massive MIMO with Autonomous Adaptation of Pilot	
and Feedback	
Feibai Zhu (Hong Kong University of Science and Technology, Hong Kong), An Liu (Hong	
Kong University of Science and Technology, Hong Kong), Vincent Lau (Hong Kong University of Science and Technology, Hong Kong)	1750
Waveform Design for Massive MISO Downlink with Energy-Efficient Receivers Adopting 1-bit	. 1/30
ADCs	
Ahmet Gokceoglu (Tampere University of Technology, Finland), Mikko Valkama (Tampere	
University of Technology, Finland), Erik G. Larsson (Linköping University, Sweden), Emil	
Björnson (Linköping University, Sweden)	1756
Polynomial Expansion of the Precoder for Power Minimization in Large-Scale MIMO Systems	
Houssem Sifaou (King Abdullah University of Science and Technology, Saudi Arabia), Abla	
Kammoun (Kaust, Saudi Arabia), Luca Sanguinetti (University of Pisa & SUPELEC, Italy),	
Mérouane Debbah (Huawei, France), Mohamed-Slim Alouini (King Abdullah University of	
Science and Technology (KAUST), Saudi Arabia)	. 1763
High-Throughput Lattice Reduction for Large-Scale MIMO Systems based on Seysen's Algorithm	
Farhana Sheikh (Intel Corporation, USA), Alexios Balatsoukas-Stimming (Intel Corporation,	
Switzerland), Chia-Hsiang Chen (Intel Corporation, USA)	. 1769
Downlink Power Control for Massive MIMO Cellular Systems with Optimal User Association	
Trinh Van Chien (Linköping University, Sweden), Emil Björnson (Linköping University,	
Sweden), Erik G. Larsson (Linköping University, Sweden)	. 1775
ICC'16 WCS: IEEE ICC 2016 - Wireless Communications Symposium	
MINO II	
MIMO II	

MIMO II

Distributed Coordinated Beamforming for Multi-Cell Multigroup Multicast Systems Harri Pennanen (University of Oulu, Finland), Dimitrios Christopoulos (University of Luxembourg & SnT, Luxembourg), Symeon Chatzinotas (University of Luxembourg,

Efficient Channel Estimation for Millimeter Wave MIMO with Limited RF Chains	
Lu Yang (National University of Singapore, Singapore), Yong Zeng (National University of Singapore, Singapore), Rui Zhang (National University of Singapore, Singapore)	1788
Path Loss Channel Models for 5G Cellular Communications in Riyadh City at 60 GHz	
Ahmed Iyanda Sulyman (King Saud University, Saudi Arabia), Abdulmalik Alwarafy (kSU, Saudi Arabia), Hussein E. Seleem (King Saud University & College of Engineering, Saudi Arabia), Khaled Humadi (King Saud University, Saudi Arabia), Abdulhameed Alsanie (King Saud University, Saudi Arabia)	1794
Radio Resource Management for Cloud-RAN Networks with Computing Capability Constraints	
Yun Liao (Peking University, P.R. China), Lingyang Song (Peking University, P.R. China), Yonghui Li (University of Sydney, Australia), Ying Jun (Angela) Zhang (The Chinese University of Hong Kong, Hong Kong)	1800
A Joint Scheduling and Millimeter Wave Hybrid Beamforming System with Partial Side Information	
Girim Kwon (Korea Advanced Institute of Science and Technology (KAIST), Korea), Hyuncheol Park (Korea Advanced Institute of Science and Technology (KAIST), Korea)	1806
Interference Characterization I	
Performance Enhancement via RAT Association Control in Multi-RAT Cellular Networks	
Seong Ho Chae (KAIST, Korea), Jun-Pyo Hong (Pukyong National University, Korea), Wan Choi (KAIST, Korea)	1812
Uplink Performance Analysis of Dense Cellular Networks with LoS and NLoS Transmissions	
Tian Ding (University of Technology Sydney, Australia), Ming Ding (Data 61, Australia), Guoqiang Mao (The University of Technology, Sydney, Australia), Zihuai Lin (University of Sydney, Australia), David López-Pérez (Bell Labs Alcatel-Lucent, Ireland)	1818
Scaling Laws of Coverage and Capacity in Downlink Ultra Dense Cellular Networks	
Van Minh Nguyen (Huawei Technologies, France), Marios Kountouris (Huawei Technologies, France)	. 1824
Unified Tractable Model for Downlink MIMO Cellular Networks using Stochastic Geometry	
Laila Hesham Afify (King Abdullah University of Science and Technology (KAUST), Saudi Arabia), Hesham ElSawy (King Abdullah University of Science and Technology (KAUST), Saudi Arabia), Tareq Y. Al-Naffouri (King Abdullah University of Science and Technology, USA), Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi	1001
Arabia)Impact of Mobility on the Sum Rate of an NB-OFDMA Based Mobile IoT Networks	. 1831
Chunxu Jiao (Zhejiang University, P.R. China), Zhaoyang Zhang (Zhejiang University, P.R.	
China), Caijun Zhong (Zhejiang University, P.R. China)	. 1838
Wireless Channels and Propagation	
Field Testing, Modeling and Comparison of Multi Frequency Band Propagation Characteristics for Cellular Networks	
Hui Xu (Shanghai Research Center for Wireless Communications, P.R. China), Chun Shi (Shanghai Research Center for Wireless Communications, P.R. China), Wuxiong Zhang (Shanghai Research Center for Wireless Communications, P.R. China), Yang Yang (Shanghai Reserach Center for Wireless Communication, P.R. China)	1844
Increasing Indoor Spectrum Sharing Capacity using Smart Reflect-Array	
Xin Tan (State University of New York at Buffalo, USA), Zhi Sun (State University of New York at Buffalo, USA), Josep M Jornet (University at Buffalo, USA), Dimitris A. Pados (The State University of New York at Buffalo, USA)	1849

Localization Algorithm Design and Performance Analysis in Probabilistic LOS/NLOS Environme	nt
Xiufang Shi (Zhejiang University, P.R. China), Guoqiang Mao (The University of Technology, Sydney, Australia), Zaiyue Yang (Zhejiang University, P.R. China), Jiming Chen (Zhejiang	
University, P.R. China)	1855
Maggie Cheng (Missouri University of Science and Technology, USA), Wei Biao Wu (Universi of Chicago, USA)	
Optimal Packet Length for Throughput Maximization in Correlated Multi-User Channels	
Ahmed Ali (University of Texas at Dallas, USA), Cenk M. Yetis (Mevlana University, Turkey), Murat Torlak (The University of Texas at Dallas, USA)	
Estimation and Detection I	
Symbol Sequence Detection with Joint Channel Estimation and Carrier Synchronization	
Hua Fu (National University of Singapore, Singapore), Pooi-Yuen Kam (National University of Singapore, Singapore)	1874
Frequency-Domain Equalization Aided Iterative Detection of Faster-than-Nyquist Signaling wit Noise Whitening	h
Takumi Ishihara (Tokyo University of Agriculture and Technology, Japan), Shinya Sugiura (Tokyo University of Agriculture and Technology, Japan)	1879
Tradeoff between Co-channel Interference and Collision Probability in LAA Systems	
Rui Yin (Zhejiang Gongshang University & Georgia Institute of Technology, P.R. China), Guanding Yu (Zhejiang University, P.R. China), Geoffrey Li (Georgia Tech, USA), Amine Maaref (Huawei Technologies Canada, Canada)	1885
Channel Quality Estimation using Bluetooth for other Standards in the 2.4 GHz ISM Band Woonghee Lee (Korea University, Korea), Albert Chung (Korea University, Korea), Hwangna Kim (Korea University, Korea)	
Compressed Sensing-based Pilot Assignment and Reuse for Mobile UEs in mmWave Cellular Systems	1032
Weng Chon Ao (University of Southern California, USA), Chenwei Wang (DOCOMO Innovations, Inc., USA), Ozgun Y. Bursalioglu (Docomo Innovations, USA), Haralabos Papadopoulos (DOCOMO Innovations Inc., USA)	1898
Radio Resource Management (Interactive)	
A Novel One-Bit Quantization Design for Correlation-based Low-Power Wideband Sensing Abdelmohsen Ali (Concordia University, Canada), Walaa Hamouda (Concordia University, Canada)	1905
Massive MIMO Relaying with Hybrid Processing	
Milad Fozooni (Queen's University Belfast, United Kingdom), Michail Matthaiou (Queen's University Belfast, United Kingdom), Shi Jin (Southeast University, P.R. China), George C.	1011
Alexandropoulos (France Research Center, Huawei Technologies Co. Ltd., France)	1911
Sang Yeob Jung (Yonsei University, Korea), Seong-Lyun Kim (Yonsei University, Korea)	1917
User Pair Selection for Distributed-Input Distributed-Output Wireless Systems	101/
Yung-Shun Wang (National Tsing Hua University & Academia Sinica, Taiwan), Yao-Win Pete Hong (National Tsing Hua University, Taiwan), Wen-Tsuen Chen (National Tsing Hua	
University, Taiwan)	1923

ICC'16 AHSN: IEEE ICC 2016 Ad-hoc and Sensor Networking Symposium

Delay Tolerant Networks and Opportunistic Networking

-		
	On the Find to and Delay of Interference Limited Makile Multiber Networks	
	On the End-to-end Delay of Interference-Limited Mobile Multihop Networks Dali Hu (Southwest Jiaotong University, P.R. China), Jingxian Wu (University of Arkansas, USA), Pingzhi Fan (Southwest Jiaotong Universityiversity, P.R. China)	1929
	Set-Covering-based Algorithm for Delay Constrained Relay Node Placement in Wireless Sensor Networks	
	Chaofan Ma (ShenYang Institute of Automation Chinese Academy of Sciences, P.R. China), Wei Liang (Shenyang Institute of Automation, Chinese Academy of Sciences, P.R. China), Meng Zheng (Shenyang Institute of Automation, Chinese Academy of Sciences, P.R. China)	1935
	Performance Modeling and Analysis of Distributed Multi-hop Wireless Ad Hoc Networks	
	Xu Li (Beijing Jiaotong University, P.R. China), He Gao (Beijing Jiaotong University, P.R. China), Yanan Liang (Beijing Jiaotong University, P.R. China), Ke Xiong (Beijing Jiaotong University, P.R. China), Ying Liu (Beijing Jiaotong University, P.R. China)	1941
	Information Epidemics Control for Data Delivery in Opportunistic Networks	
	Cherry Ye Aung (Nanyang Technological University, Singapore), G. G. Md. Nawaz Ali (Nanyang Technological University, Singapore), Ming Zhao (Nanyang Technological University, Singapore), Ruo Jun Cai (Nanyang Technological University, Singapore), Peter Han Joo Chong (Auckland University of Technology, New Zealand)	1947
	A Novel 3D Underwater WSN Deployment Strategy for Full-Coverage and Connectivity in Rivers Zakia Khalfallah (UPMC, France), Ilhem Fajjari (Orange labs, France), Nadjib Aitsaadi (LiSSi - University of Paris-Est Creteil (UPEC), France), Paul Rubin (Michigan State University,	
	France), Guy Pujolle (University Pierre et Marie Curie - Paris 6 & DNAC, France)	1953
Wireless I	Network Applications I (Interactive)	
	Information Recovery via Block Compressed Sensing in Wireless Sensor Networks	
	Hao Cui (Shanghai Jiao Tong University, P.R. China), Su Zhang (Shanghai Jiao Tong University, P.R. China), Xiaoying Gan (Shanghai Jiao Tong University, P.R. China), Manyuan Shen (Shanghai Jiao Tong University, P.R. China), Xinbing Wang (Shanghai Jiaotong University, P.R. China), Xiaohua Tian (Shanghai Jiao Tong University, P.R. China)	1960
	Carrier Frequency Offset Estimation Scheme for IEEE 802.15.4g Based Wide Area Wi-SUN Systems	
	Kentaro Obata (Kyoto University, Japan), Keiichi Mizutani (Kyoto University, Japan), Hiroshi Harada (Kyoto University & Graduate School of Informatics, Japan)	1966
	Connectivity of Cooperative Ad hoc Networks	

Orestis Georgiou (Toshiba Telecommunications Research Laboratory, United Kingdom), Georgios Kalogridis (Toshiba Research Europe Ltd, United Kingdom), Hachem Yassine (University of Oxford, United Kingdom), Stojan Denic (Telecommunications Research Lab

Hyunbum Kim (University of North Carolina at Wilmington, USA), Jalel Ben-Othman

Performance Modeling of the Sleep Interval Effects in Duty-Cycled Underwater Sensor Networks
Rodolfo W. L. Coutinho (Federal University of Minas Gerais & University of Ottawa, Brazil),
Azzedine Boukerche (University of Ottawa, Canada), Luiz F. M. Vieira (Universidade Federal

de Minas Gerais, Brazil), Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil) ______ 1979

(University of Paris 13, France) 1985

Toshiba, United Kingdom)

On Resilient Event-driven Partial Barriers in Mobile Sensor Networks

ICC'16 CISS: IEEE ICC 2016 Communication and Information Systems Security Symposium

Mobile and Wireless Network Security I

-	er Stochastic Games for Optimized Moving Target Defense n Eldosouky (Virginia Tech, USA), Walid Saad (Virginia Tech, USA), Dusit Niyato
• •	chnological University, Singapore)
	: Exploiting Channel Allocation in Wireless Networks
	(Texas State University, USA), Mina Guirguis (Texas State University, USA), (University of Central Florida, USA)
	ation Secret Key Extraction in MIMO Backscatter Wireless Systems
Shichao Lv (I Xiang Lu (Ins Memphis, US Sciences, P.R China), Limin	Institute of Information Engineering, Chinese Academy of Sciences, P.R. China), stitute of Information Engineering, CAS, P.R. China), Zhuo Lu (University of GA), Xiaoshan Wang (Institute of Information Engineering, Chinese Academy of R. China), Ning Wang (Beijing University of Posts and Telecommunications, P.R. or Sun (Institute of Information Engineering, China Academy of Science, Beijing,
	-Duplex Active Eavesdropper: A Game-Theoretic Perspective
	i'an Jiaotong University, P.R. China), Pinyi Ren (Xi'an Jiaotong University, P.R. Han (University of Houston, USA)
In-Band Wormi Method	hole Detection in Wireless Ad Hoc Networks Using Change Point Detection
	g (Missouri University of Science and Technology, USA), Yi Ling (Missouri Science and Technology, USA), Wei Biao Wu (University of Chicago, USA)
•	
of Large-Scale	Systems and SDN
•	Systems and SDN og Forwarding Anomaly in Software-Defined Networks
FADE: Detectin	
FADE: Detectin Chunhui Pang Tsinghua Uni	ng Forwarding Anomaly in Software-Defined Networks g (Tsinghua University, P.R. China), Yong Jiang (Graduate School at Shenzhen,
FADE: Detection Chunhui Pang Tsinghua Uni Efficient, Secur Yunpeng Yu (University of Defense Tech	ng Forwarding Anomaly in Software-Defined Networks g (Tsinghua University, P.R. China), Yong Jiang (Graduate School at Shenzhen, versity, P.R. China), Qi Li (Tsinghua University, P.R. China)
FADE: Detection Chunhui Pang Tsinghua Uni Efficient, Secur Yunpeng Yu (University of Defense Tech P.R. China), I	Ing Forwarding Anomaly in Software-Defined Networks g (Tsinghua University, P.R. China), Yong Jiang (Graduate School at Shenzhen, versity, P.R. China), Qi Li (Tsinghua University, P.R. China) The and Non-iterative Outsourcing of Large-Scale Systems of Linear Equations (National University of Defense Technology, P.R. China), Yuchuan Luo (National Defense Technology, P.R. China), Dongsheng Wang (National University of China), Shaojing Fu (National University of Defense Technology,
FADE: Detection Chunhui Pang Tsinghua Uni Efficient, Secur Yunpeng Yu (University of Defense Tech P.R. China), I A Detection Me Flows Ping Dong (B Hongke Zhan	Ing Forwarding Anomaly in Software-Defined Networks Ing (Tsinghua University, P.R. China), Yong Jiang (Graduate School at Shenzhen, versity, P.R. China), Qi Li (Tsinghua University, P.R. China) In and Non-iterative Outsourcing of Large-Scale Systems of Linear Equations (National University of Defense Technology, P.R. China), Yuchuan Luo (National Defense Technology, P.R. China), Dongsheng Wang (National University of Innology, P.R. China), Shaojing Fu (National University of Defense Technology, Ming Xu (National University of Defense Technology, P.R. China) In a thought of the Novel Doos Attack against SDN Controllers by Vast New Low-Traffic (Seijing Jiaotong University, P.R. China), Tong Xu (Beijing Jiaotong University, USA), In a (Beijing Jiaotong University, P.R. China), Tong Xu (Beijing Jiaotong University,
FADE: Detection Chunhui Pang Tsinghua Uni Efficient, Secur Yunpeng Yu (University of Defense Tech P.R. China), I A Detection Me Flows Ping Dong (B Hongke Zhan P.R. China)	Ing Forwarding Anomaly in Software-Defined Networks Ing (Tsinghua University, P.R. China), Yong Jiang (Graduate School at Shenzhen, versity, P.R. China), Qi Li (Tsinghua University, P.R. China) In and Non-iterative Outsourcing of Large-Scale Systems of Linear Equations (National University of Defense Technology, P.R. China), Yuchuan Luo (National Defense Technology, P.R. China), Dongsheng Wang (National University of Innology, P.R. China), Shaojing Fu (National University of Defense Technology, Ming Xu (National University of Defense Technology, P.R. China) In an in the state of t
FADE: Detection Chunhui Pang Tsinghua Uni Efficient, Secur Yunpeng Yu (University of Defense Tech P.R. China), I A Detection Me Flows Ping Dong (B Hongke Zhan P.R. China) Privacy-Preserv Yi-Hui Lin (Ad Hong Yang (A	In a growarding Anomaly in Software-Defined Networks In a growarding In a g
FADE: Detection Chunhui Pang Tsinghua Uni Efficient, Secur Yunpeng Yu (University of Defense Tech P.R. China), I A Detection Me Flows Ping Dong (B Hongke Zhan P.R. China) Privacy-Preserv Yi-Hui Lin (Ad Hong Yang (A) Chen (Acadel	In growarding Anomaly in Software-Defined Networks In growarding In growa
FADE: Detection Chunhui Pang Tsinghua Uni Efficient, Secur Yunpeng Yu (University of Defense Tech P.R. China), I A Detection Me Flows Ping Dong (B Hongke Zhan P.R. China) Privacy-Preserv Yi-Hui Lin (Ad Hong Yang (A Chen (Acade) Fast Authentica Transfer Xiaoyu Duan	In growarding Anomaly in Software-Defined Networks In growarding Anomaly in Software-Defined Networks In growarding Anomaly in Software-Defined Networks In growarding University, P.R. China), Yong Jiang (Graduate School at Shenzhen, Networks), P.R. China), Qi Li (Tsinghua University, P.R. China) In growarding Anomaly in Shenzhen, Yong Jiang (Shenze Tequations), P.R. China), P.R. China), You China Luo (National University of Defense Technology, P.R. China), Shaojing Fu (National University of Defense Technology, P.R. China), Shaojing Fu (National University of Defense Technology, P.R. China) In growarding Anomaly in Shenzhen, Yong Kanadamia Sinica, Taiwan), Ming-Academia Sinica, Taiwan), Shan-Hsiang Shen (Academia Sinica, Taiwan), Wen-Tsuen mia Sinica, Taiwan)

ICC'16 CQRM: IEEE ICC 2016 - Communication QoS, Reliability and Modeling Symposium

Virtualization and Cloud

Quantifying and Evaluating the Technical Debt on Mobile Cloud-Based Service Level Georgios Skourletopoulos (University of Nicosia, Cyprus), Constandinos X. Mavromoustakis (University of Nicosia, Cyprus), George Mastorakis (Technological Educational Institute of Crete, Greece), Evangelos Pallis (Technological Educational Institute of Crete, Greece), Jordi Mongay Batalla (Warsaw University of Technology & National Institute of Telecommunications, Poland), Georgios Kormentzas (University of the Aegean, Greece)	2052
Towards Optimal Outsourcing of Service Function Chain Across Multiple Clouds Huan Chen (University of Electronic Science and Technology of China, P.R. China), Shizhong Xu (University of Electronic Science and Technology of China, P.R. China), Xiong Wang (University of Electronic Science and Technology of China, P.R. China), Yangming Zhao (State University of New York at Buffalo, USA), Ke Li (Southwest Jiao Tong University, P.R. China), Yang Wang (University of Electronic Science and Technology of China, P.R. China), Wei Wang (State Grid Sichuan Electric Power Corporation, P.R. China), Le Min Li (University of Electronic Science and Technology of China, P.R. China)	2059
Low Latency Virtual Network Embedding for Mobile Networks	
Giorgos Chochlidakis (King's College London, United Kingdom), Vasilis Friderikos (King's College London, United Kingdom)	2066
Power Comparison of Cloud Data Center Architectures	
Pietro Ruiu (Istituto Superiore Mario Boella, Italy), Andrea Bianco (Politecnico di Torino, Italy), Claudio Fiandrino (University of Luxembourg, Luxembourg), Paolo Giaccone (Politecnico di Torino, Italy), Dzmitry Kliazovich (University of Luxembourg, Luxembourg)	2072
Min Dong (University of Ontario Institute of Technology, Canada)	2078

ICC'16 CRN: IEEE ICC 2016 - Cognitive Radio and Networks Symposium

Spectrum Access

Multi-Channel MAC Protocol for Full-Duplex Cognitive Radio Networks with Optimized Access Control and Load Balancing	
Tan Thanh Le (Arizona State University, USA), Long Bao Le (INRS, University of Quebec, Canada)	2084
On Optimality of Myopic Policy in multichannel Opportunistic Access Kehao Wang (WHUT, P.R. China), Lin Chen (The University of Paris-Sud, France), Jihong Yu	
(The University of Paris-Sud, France)	2090
Decentralized Heuristic Access Policy Design for Two Cognitive Secondary Users under a Primary Type-I HARQ Process	
Roghayeh Joda (Iran Telecommunication Research Center, Iran), Michele Zorzi (University of Padova, Italy)	2096
Decentralized Power Allocation for Secondary Random Access in Cognitive Radio Networks with Successive Interference Cancellation	
Huifa Lin (Dankook University, Korea), Koji Ishibashi (The University of Electro- Communications, Japan), Won-Yong Shin (Dankook University, Korea), Takeo Fujii (The University of Electro-Communications, Japan)	2102
Tradeoff in Delay, Cost, and Quality in Data Transmission Over TV White Spaces	
Naveed UI Hassan (Lahore University of Management Sciences, Pakistan), Chau Yuen (Singapore University of Technology and Design, Singapore), Muhammad Bershgal Atique	
(Lahore University of Management Sciences, Pakistan)	2108

ICC'16 CT: IEEE ICC 2016 - Communications Theory

Multiple Access II

Real Interference Alignment for the MIMO Multiple Access Wiretap Channel	
Pritam Mukherjee (University of Maryland, USA), Sennur Ulukus (University of Maryland, USA)	2114
Simplified Han-Kobayashi Region for One-Sided and Mixed Gaussian Interference Channels	
Mojtaba Vaezi (Princeton University, USA), H. Vincent Poor (Princeton University, USA)	2120
An Asymptotically Capacity-Achieving Scheme for the Gaussian Multiple-Access Relay Channel	
Ahmad Abu Al Haija (University of Alberta, Canada), Chintha Tellambura (University of Alberta, Canada)	2126
Stability Region of Two-user Full-duplex Broadcast Channel with Secrecy Constraint	
Parthajit Mohapatra (Singapore University of Technology and Design, Singapore), Nikolaos Pappas (Linköping University, Sweden), Jemin Lee (Singapore University of Technology and Design (SUTD), Singapore), Tony Q. S. Quek (Singapore University of Technology and Design, Singapore), Vangelis Angelakis (Linköping University, Sweden)	2132
Improper Gaussian Signaling in Full-Duplex Relay Channels with Residual Self-Interference	
Mohamed Gaafar (King Abdullah University of Science and Technology (KAUST), Saudi Arabia), Mohammad Galal Khafagy (King Abdullah University of Science and Technology (KAUST), Saudi Arabia), Osama Amin (King Abdullah University of Science and Technology (KAUST), Saudi Arabia), Mohamed-Slim Alouini (King Abdullah University of Science and	2120
Technology (KAUST), Saudi Arabia)	2138

ICC'16 GCSN: IEEE ICC 2016 - Green Communications Systems and Networks

Energy Harvesting 1

Energy Emicient Switching between Data Transmission and Energy Harvesting for Cooperative Cognitive Relaying Systems	
Nikolaos I. Miridakis (University of Piraeus, Greece), Theodoros Tsiftsis (Nazarbayev University & Technological Educational Institute of Central Greece, Kazakhstan), George C. Alexandropoulos (France Research Center, Huawei Technologies Co. Ltd., France), Mérouane Debbah (Huawei, France)	2145
Online Ski Rental for Scheduling Self-Powered, Energy Harvesting Small Base Stations	
Gilsoo Lee (Virginia Tech, USA), Walid Saad (Virginia Tech, USA), Mehdi Bennis (Centre of Wireless Communications, University of Oulu, Finland), Abolfazl Mehbodniya (Tohoku University, Japan), Fumiyuki Adachi (Tohoku University, Japan)	2151
On the Performance of Wireless Energy Harvesting Networks in a Boolean-Poisson Model	
Han-Bae Kong (Nanyang Technological University, Singapore), Ian Flint (Nanyang Technological University, Singapore), Dusit Niyato (Nanyang Technological University, Singapore), Nicolas Privault (Nanyang Technological University, Singapore)	2157
Energy Harvesting Two-Way Channel with Decoding Costs	
Ahmed Arafa (University of Maryland College Park, USA), Abdulrahman Baknina (University of Maryland, College Park, USA), Sennur Ulukus (University of Maryland, USA)	2163
Online learning algorithms for wireless energy harvesting nodes	
Maria Gregori (CTTC, Spain), Jesús Gómez-Vilardebò (CTTC, Spain)	2169

ICC'16 MWN: IEEE ICC 2016 - Mobile and Wireless Networking Symposium

LTE and Beyond 2

A Pareto-optimal Approach for Resource Allocation on the LTE downlink	
Fan Huang (University of Paris Sud, France), Véronique Vèque (University of Paris-Sud 11, France), Joanna Tomasik (CentraleSupélec, Université Paris-Saclay, France)	2175
Studying the Performance and Robustness of Frequency Allocation Schemes for LTE HetNets	
Sepideh Ebrahimi (RWTH Aachen University, Germany), Janne Riihijärvi (RWTH Aachen University, Germany), Marina Petrova (RWTH Aachen University, Germany)	2182
Energy Efficiency of Combined DPS and JT CoMP Technique in Downlink LTE-A Cellular Networks	
Md. Farhad Hossain (Bangladesh University of Engineering and Technology (BUET), Bangladesh), Md Jamiul Huque (Bangladesh University of Engineering and Technology, Bangladesh), Ahnaf Sakib Ahmad (Bangladesh University of Engineering and Technology, Bangladesh), Kumudu S Munasinghe (University of Canberra, Australia), Abbas Jamalipour (University of Sydney, Australia)	2188
A Software-Defined Architecture for Next-Generation Cellular Networks	
Vassilios G. Vassilakis (University of West London, United Kingdom), Ioannis Moscholios (University of Peloponnese, Greece), Bander A Alzahrani (King Abdulaziz University, Saudi Arabia), Michael D. Logothetis (University of Patras, Greece)	2194
Flexible Call Admission Control with Preemption in LTE Networks	
Aymen Belghith (University of Sfax, Tunisia), Nesrine Turki (University ENET'COM, Tunisia), Bernard Cousin (University of Rennes 1 & IRISA Research Laboratory, France), Mohammad S. Obaidat (Fordham University, USA)	2200
A Three-Tier SDN Based Distributed Mobility Management Architecture for DenseNets Ibrahim Elgendi (Canberra University, Australia), Kumudu S Munasinghe (University of	
Canberra, Australia), Abbas Jamalipour (University of Sydney, Australia)	2207
Optimising Rateless Codes With Delayed Feedback to Minimise In-order Delivery Delay	
Douglas Leith (Trinity College Dublin, Ireland), Mohammad Karzand (Trinity College Dublin, Ireland)	2213
Analysis of Guard-band-aware Spectrum Bonding and Aggregation in Multi-Channel Access Cognitive Radio Networks	
MohammadJavad NoroozOliaee (Oregon State University, USA), Bechir Hamdaoui (Oregon State University, USA)	2219
A Ring-based Bidirectional Routing Protocol for Wireless Sensor Network with Mobile Sinks	
Dezhong Shang (University of the Chinese Academy of Sciences, P.R. China), Xiulian Liu (Astronaut Center of China, P.R. China), Yan Yan (University of Chinese Academy of Sciences, P.R. China), Baoxian Zhang (University of Chinese Academy of Sciences, P.R. China), Cheng Li (Memorial University of Newfoundland, Canada)	2225
On Joint Power Allocation and Multipath Routing in Femto-Relay Networks	
Sahar Hoteit (INRIA Saclay, France), Pierre Duhamel (Lss Supelec & CNRS, France), Samson E Lasaulce (CNRS - Supelec, France)	2231
Dynamic Sensitivity Control of Access Points for IEEE 802.11ax	
M. Shahwaiz Afaqui (Technical University of Catalonia (UPC), Spain), Eduard Garcia-Villegas (Technical University of Catalonia (UPC), Spain), Elena Lopez-Aguilera (Technical University of Catalonia (UPC), Spain), Daniel Camps (i2CAT, Spain)	2237
A Game Theoretic Approach for an Hybrid Overlay-Underlay Spectrum Access Mode	,
Sara Gmira (ENSIAS, Mohammed V University of Rabat, Morocco), Abdellatif Kobbane	
(ENSIAS, Mohammed V University of Rabat, Morocco), Essaid Sabir (Hassan II University of Casablanca & ENSEM, Morocco), Jalel Ben-Othman (University of Paris 13, France)	2244

ICC'16 NGN: IEEE ICC 2016 - Next-Generation Networking and Internet Symposium

Mobile/Wireless Content Distribution I

^	Maximizing Coding Gain in Wireless Networks with Decodable Network Coding	
	Maggie Cheng (Missouri University of Science and Technology, USA), Quanmin Ye (Nokia Networks, USA), Xiaochun Cheng (Middlesex University, United Kingdom), Lin Cai (University	
	of Victoria, Canada)	2250
A	Automatic Construction of Garage Maps for Future Vehicle Navigation Service	
	Qian Zhou (Stony Brook University, USA), Fan Ye (Stony Brook University, USA), Xiaoge Wang (Tsinghua University, P.R. China), Yuanyuan Yang (Stony Brook University, USA)	2256
E	Enhancing Software-Defined RAN with Collaborative Caching and Scalable Video Coding	
	Ruozhou Yu (Arizona State University, USA), Shuang Qin (University of Electronic Science and Technology of China, P.R. China), Mehdi Bennis (Centre of Wireless Communications, University of Oulu, Finland), Xianfu Chen (VTT Technical Research Centre of Finland, Finland), Gang Feng (University of Electronic Science and Technology of China, P.R. China), Zhu Han (University of Houston, USA), Guoliang Xue (Arizona State University, USA)	2263
9	Search Based Software Engineering on Evolutionary Multi-Objective Approach	
	Abdusy Syarif (University of Haute Alsace, France), Abdelhafid Abouaissa (University of Haute Alsace, France), Lhassane Idoumghar (University of Haute Alsace, France), Achmad Kodar (Mercu Buana University, Indonesia), Pascal Lorenz (University of Haute Alsace, France)	2260
٨	Multi-Gigabit Indoor WLANs: Looking Beyond 2.4/5 GHz	2209
,	Swetank Kumar Saha (University at Buffalo, SUNY, USA), Viral Vijay Vira (University at	
	Buffalo, SUNY, USA), Anuj Garg (University at Buffalo, SUNY, USA), Dimitrios Koutsonikolas (University at Buffalo, SUNY, USA)	2275
	A Resilient Distributed Controller for Software Defined Networking	
	Diogo Mattos (Universidade Federal do Rio de Janeiro & GTA, Brazil), Otto Carlos M. B. Duarte (Universidade Federal do Rio de Janeiro, Brazil), Guy Pujolle (University Pierre et Marie Curie - Paris 6 & DNAC, France)	2281
9	Software-Defined Inter-Domain Routing Revisited	
	Chen Chen (Hong Kong University of Science and Technology, Hong Kong), Bo Li (Hong Kong University of Science and Technology, Hong Kong), Dong Lin (Hong Kong University of Science & Technology, Hong Kong), Baochun Li (University of Toronto, Canada)	2287
I	Inter-controller traffic in ONOS clusters for SDN networks	LLO,
	Abubakar Siddique Muqaddas (Politecnico di Torino, Italy), Paolo Giaccone (Politecnico di Torino, Italy), Andrea Bianco (Politecnico di Torino, Italy), Guido Maier (Politecnico di Milano, Italy)	2293
H	Header Length Reduction for Bloom Filter Multicast using Stochastic Overlay Networks	
	Alexander Craig (Carleton University, Canada), Biswajit Nandy (Solana Networks & Carleton University, Canada), Ioannis Lambadaris (Carleton University, Canada)	2299
9	Stateless multicast switching in software defined networks	
	Martin J Reed (University of Essex, United Kingdom), Mays F AL-Naday (University of Essex, United Kingdom), Nikolaos Thomos (University of Essex, United Kingdom), Dirk Trossen (InterDigital Europe, United Kingdom), George Petropoulos (Intracom SA Telecom Solutions,	
	Greece), Spiros Spirou (Intracom Telecom, Greece)	2306

ICC'16 ONS: IEEE ICC 2016 - Optical Networks and Systems

Optical Networks for Data Centers

Providing Line-of-Sight in a Free-Space-Optics Based Data Center Architecture	
Max Curran (Stony Brook, USA), Himanshu Gupta (Stony Brook University, USA)	2313
PODCA: A Passive Optical Data Center Architecture	
Maotong Xu (George Washington University, USA), Chong Liu (George Washington University, USA), Suresh Subramaniam (The George Washington University, USA)	2320
DOSE: Double Optics Single Electronics Data-Center using a Switchless Optical Frontplane and	
Backplane	
Ashwin A Gumaste (Indian Institute of Technology, Bombay, India), Aniruddha Singh Kushwaha (IIT-Bombay, India), Tamal Dinesh Das (Indian Institute of Technology, Bombay, India)	2326
Scalable Architecture and Low-Latency Scheduling Schemes for Next Generation Photonic Datacenters	
Mohammad Kiaei (Huawei Technologies, Canada), Hamid Mehrvar (Huawei Technology, Canada), Eric Bernier (Huawei Technology, Canada)	2333
Revenue-Oriented Bandwidth Allocation in Optical OFDM Intra Data Center Networks	
Yan Li (Nanjing University of Finance and Economics, P.R. China), Shifang Dai (Nanjing University of Finance and Economics, P.R. China), Jingjing You (Nanjing University of Finance and Economics, P.R. China)	2338

ICC'16 SAC-2 CCN: IEEE ICC 2016 SAC Cloud Communications and Networking

Future Cellular Networks and Mobile Cloud Computing

A Capacity Broker Architecture and Framework for Multi-tenant support in LTE-A Networks Georgia Tseliou (Open University of Catalonia (UOC), Spain), Konstantinos Samdanis (NEC Europe Ltd., Germany), Ferran Adelantado (Universitat Oberta de Catalunya, Spain), Xavier Costa Pérez (NEC Europe Ltd, Germany), Christos Verikoukis (Telecommunications Technological Centre of Catalonia, Spain)	2344
Resource Allocation for Uplink OFDMA C-RANs with Limited Computation and Fronthaul Capacity	
Vu Nguyen Ha (INRS, University of Quebec, Canada), Long Bao Le (INRS, University of Quebec, Canada)	2350
Cost-Effective Resource Allocation in C-RAN with Mobile Cloud	
Kezhi Wang (University of Essex, United Kingdom), Kun Yang (University of Essex, United Kingdom), Xinhou Wang (Huazhong University of Science and Technology, P.R. China), Chathura Sarathchandra Magurawalage (University of Essex, United Kingdom)	2356
Energy Efficient Cloud Radio Access Network with a Single RF Antenna	
Lin Zhou (University of Edinburgh, United Kingdom), Tharmalingam Ratnarajah (The University of Edinburgh, United Kingdom), Jiang Xue (The University of Edinburgh & IDCOM, United Kingdom), Faheem A. Khan (University of Edinburgh, United Kingdom)	2362
Distibuted Mobile Cloud Computing: A multi-user Clustering Solution	
Jessica Oueis (CEA-LETI & University of Grenoble, France), Emilio Calvanese Strinati (CEA- LETI, France), Sergio Barbarossa (Sapienza University of Rome, Italy)	2368

ICC'16 SAC-6 CSG: IEEE ICC 2016 SAC Communications for the Smart Grid

Communications for the Smart Grid (Interactive)

2374
2380
2386

ICC'16 SAC-5 IoT: IEEE ICC 2016 SAC Internet of Things

Cloud, Edge Computing and IoT

2392
2398
2404
2410
2417
2

ICC'16 SPC: IEEE ICC 2016 - Signal Processing for Communications Symposium

MIMO

Beyond Fixed Neighborhood Search in the Likelihood Ascent Algorithm for MIMO Systems	
Abhay Kumar Sah (IIT Kanpur, India), Ajit K. Chaturvedi (Indian Institute of Technology	
Kanpur, India)	2423

Interference-Aware Multi-Iterative Equalization and Detection for Frequency-Selective MIMO Channels	
Tobias Seifert (Technische Universität Dresden, Germany), Xiaohang Song (TU Dresden,	
Germany), Gerhard Fettweis (Technische Universität Dresden, Germany)	2429
A Practical Complex BKZ Reduction Algorithm for Near-Optimal MIMO SIC Detection	
Liqin Ding (Harbin Institute of Technology, P.R. China), Wang Yang (Harbin institute of Technology, P.R. China), Jiliang Zhang (Harbin Institute of Technology, P.R. China)	2435
Analog and Successive Channel Equalization in Strong Line-of-Sight MIMO Communication	
Xiaohang Song (TU Dresden, Germany), Wolfgang Rave (Dresden University of Technology, Germany), Gerhard Fettweis (Technische Universität Dresden, Germany)	2441
Enhanced Low-Complexity Layer-Ordering for MIMO Sphere Detectors	
Hadi Sarieddeen (American University of Beirut, Lebanon), Mohammad Mansour (American University of Beirut, Lebanon)	2448
Advanced Receiving Techniques (Interactive)	
Multiuser Detection by MAP Estimation with Sum-of-Absolute-Values Relaxation	
Hampei Sasahara (Tokyo Institute of Technology, Japan), Kazunori Hayashi (Kyoto	
University, Japan), Masaaki Nagahara (The University of Kitakyushu, Japan)	2454
Bayesian Learning For The Type-3 Joint Sparse Signal Recovery	
Wei Chen (Beijing Jiaotong University, P.R. China), Ian James Wassell (University of Cambridge, United Kingdom)	2460
Iterative Decoding Techniques for Ring-type Magnitude Modulated Signals	
Mário Castanheira (Instituto de Telecomunicações & University of Coimbra, Portugal), Antónic Simões (Instituto de Telecomunicações & University of Coimbra, Portugal), Marco A. C. Gomes (University of Coimbra, Portugal), Rui Dinis (Faculdade de Ciências e Tecnologia, University Nova de Lisboa, Portugal), Vitor Silva (Institute of Telecommunications, Portugal).	
A Fast Receiver Sensitivity Identification Method for Wireless Systems	2100
Zhi Quan (Southern University of Science and Technology, P.R. China), Minghe Zhu (ShanghaiTech University, P.R. China), Shuguang Cui (Texas A&M University, USA)	2472
Enhanced Single Carrier Iterative Interference Cancellation Frequency Domain Equalization	
Martin Fritz (Sony, Germany), Rana Ahmed (Nokia DE & Bell Labs, Germany), Ben Eitel	
(Sony, Germany)	2478
ICC'16 WCS: IEEE ICC 2016 - Wireless Communications Symposium Small Cells and Heterogeneous Networks II	
QoS-aware Scheduling for Small Cell Millimeter Wave Mesh Backhaul	
Yun Zhu (University of Florida, USA), Yong Niu (Tsinghua University, P.R. China), Jiade Li (University of Florida, USA), Dapeng Oliver Wu (University of Florida, USA), Yong Li (Tsinghua University, P.R. China)	
Cluster-Centric Cache Utilization Design in Cooperative Small Cell Networks	
Zheng Chen (CentraleSupélec - CNRS - Université Paris Sud, France), Jemin Lee (Singapore University of Technology and Design (SUTD), Singapore), Tony Q. S. Quek (Singapore University of Technology and Design, Singapore), Marios Kountouris (Huawei Technologies, France)	2490
Performance Analysis of SDMA with Inter-tier Interference Nulling in HetNets	
Yamuna Dhungana (University of Alberta, Canada), Chintha Tellambura (University of Alberta, Canada)	2496
Distributed Downlink User Association in Small Cell Networks with Energy Harvesting	
Setareh Maghsudi (University of Manitoba, Canada), Ekram Hossain (University of Manitoba,	

	On the Performance of Advanced Receivers in Unsynchronized Small Cell LTE Networks	
	Stanislaus Iwelski (University of Duisburg-Essen, Germany), Erfan Majeed (University of Duisburg-Essen, Germany), Guido Bruck (University of Duisburg Essen, Germany), Peter Jung (Universität Duisburg-Essen, Germany)	2508
Smart An	tennas	
	Two-Step Transmit Antenna Selection Algorithms for Massive MIMO	
	Jingon Joung (Chung-Ang University, Korea), Sumei Sun (Institute for Infocomm Research, Singapore)	2515
	M2I Communication: From Theoretical Modeling to Practical Design	
	Hongzhi Guo (State University of New York at Buffalo, USA), Zhi Sun (State University of New York at Buffalo, USA)	2521
	Tunable Generation and Angular Steering of a Millimeter-Wave Orbital-Angular-Momentum Beam using Differential Time Delays in a Circular Antenna Array	
	Guodong Xie (University of Southern California, USA), Yan Yan (University of Southern California, USA), Zhe Zhao (University of Southern California, USA), Long Li (University of Southern California, USA), Nisar Ahmed (University of Southern California, USA), Asher Willner (University of Southern California, USA), Changjing Bao (University of Southern California, USA), Zhe Wang (University of Southern California, USA), Cong Liu (University of Southern California, USA), Nima Ashrafi (University of Texas at Dallas & NxGen Partners, USA), Solyman Ashrafi (NxGen Partners, USA), Shilpa Talwar (Intel, USA), Soji Sajuyigbe (Intel Labs, Intel Corporation, USA), Moshe Tur (Tel Aviv University, Israel), Andreas Molisch (University of Southern	
	California, USA), Alan Willner (University of Southern California, USA) Simultaneous Transmission Opportunities for LTE-LAA Smallcells Coexisting with WiFi in	2527
	Unlicensed Spectrum	
	Long Li (University of Sheffield, United Kingdom), Amir H Jafari (University of Sheffield, Bell Labs Nokia, United Kingdom), Xiaoli Chu (University of Sheffield, United Kingdom), Jie Zhang (University of Sheffield, Dept. of Electronic and Electrical Engineering, United Kingdom)	
Massive I	University at Qatar, Qatar), Khalid A. Qaraqe (Texas A&M University at Qatar, USA)	2540
Massive		
	Total Boost I ACCO for Coorse Channel Februaries in Multi-veer Massive MIMO	
	Joint Burst LASSO for Sparse Channel Estimation in Multi-user Massive MIMO An Liu (Hong Kong University of Science and Technology, Hong Kong), Vincent Lau (Hong Kong University of Science and Technology, Hong Kong), Wei Dai (Imperial College, United Kingdom)	2546
	Random Beamforming for Multiuser Multiplexing in Downlink Correlated Rician Channel	
	Wenbin Sun (Harbin Institute of Technology, P.R. China), Qiyue Yu (Harbin Institute of Technology, P.R. China), Weixiao Meng (Harbin Institute of Technology, P.R. China), Cheng Li (Memorial University of Newfoundland, Canada)	2552
	A Blind Interference Alignment scheme for practical channels	
	Máximo Morales-Céspedes (Université Catholique de Louvain, Spain), Jorge Plata-Chaves (Katholieke Universiteit Leuven (KU Leuven), Belgium), Ana Garcia Armada (Universidad Carlos III de Madrid, Spain), Luc Vandendorpe (Université catholique de Louvain, Belgium)	2558
	General Analysis of Multiuser MIMO Systems With Regularized Zero-Forcing Precoding Under Spatially Correlated Rayleigh Fading Channels	
	Harsh Tataria (Victoria University of Wellington, New Zealand), Peter J Smith (Victoria University of Wellington, New Zealand), Pawel A. Dmochowski (Victoria University of Wellington, New Zealand), Mansoor Shafi (Spark New Zealand Ltd & Victoria University,	

..... 2564

Wellington, New Zealand)

	System	
	Zhecheng An (Tsinghua University, P.R. China), Jun Wang (Tsinghua University, Beijing, P.R. China), Jintao Wang (Tsinghua University, P.R. China), Jian Song (Tsinghua University, P.R. China)	2571
OFDM and	d Multi-carrier Systems (Interactive)	
	Performance Analysis of power allocation and Relay assignment in OFDM Systems	
	Anahid Attarkashani (Concordia University, Canada), Walaa Hamouda (Concordia University, Canada)	2577
	BER Performance Study of HF Band FB-MC-SS	
	Stephen Andrew Laraway (University of Utah, USA), Hussein Moradi (Idaho National Laboratory, USA), Behrouz Farhang-Boroujeny (University of Utah, USA)	2583
	QoS-Aware Channel-Width Adaptation in Wireless Mesh Networks	
	Hao Li (University of Sheffield, United Kingdom), Jiliang Zhang (Harbin Institute of Technology, P.R. China), Qi Hong (University of Sheffield, United Kingdom), Hui Zheng (The University of Sheffield, United Kingdom), Wang Yang (Harbin institute of Technology, P.R. China), Jie Zhang (University of Sheffield, Dept. of Electronic and Electrical Engineering, United Kingdom)	2590
	Joint Uplink and Downlink Resource Allocation in Full-duplex OFDMA Networks	
	Sa Xiao (University of Electronic Science and Technology of China, P.R. China), Shengjie Guo (Louisiana State University, USA), Xiangwei Zhou (Louisiana State University, USA), Daquan Feng (Singapore University of Technology and Design, Singapore), Yi Yuan-Wu (Orange Labs, France), Geoffrey Li (Georgia Tech, USA), Guo Wei (National Communication Technology Key LAB, P.R. China)	2506
ICC'16 A	AHSN: IEEE ICC 2016 Ad-hoc and Sensor Networking Symposium	
Mobile an	d Vehicular Ad Hoc Networks II	
Mobile an	d Vehicular Ad Hoc Networks II	
Mobile an		2602
Mobile an	Multi-Hop Reliability for Broadcast-based VANET in City Environments Wiem Benrhaiem (University of Montreal, Canada), Abdelhakim Hafid (University of Montreal, Canada), Pratap Kumar Sahu (University of Montreal, Canada) On the Impact of Adjacent Channel Interference in Multi-Channel VANETs	2602
Mobile an	Multi-Hop Reliability for Broadcast-based VANET in City Environments Wiem Benrhaiem (University of Montreal, Canada), Abdelhakim Hafid (University of Montreal, Canada), Pratap Kumar Sahu (University of Montreal, Canada) On the Impact of Adjacent Channel Interference in Multi-Channel VANETs Claudia Campolo (University Mediterranea of Reggio Calabria, Italy), Christoph Sommer (Paderborn University, Germany), Falko Dressler (University of Paderborn, Germany),	
Mobile an	Multi-Hop Reliability for Broadcast-based VANET in City Environments Wiem Benrhaiem (University of Montreal, Canada), Abdelhakim Hafid (University of Montreal, Canada), Pratap Kumar Sahu (University of Montreal, Canada) On the Impact of Adjacent Channel Interference in Multi-Channel VANETs Claudia Campolo (University Mediterranea of Reggio Calabria, Italy), Christoph Sommer	
Mobile an	Multi-Hop Reliability for Broadcast-based VANET in City Environments Wiem Benrhaiem (University of Montreal, Canada), Abdelhakim Hafid (University of Montreal, Canada), Pratap Kumar Sahu (University of Montreal, Canada) On the Impact of Adjacent Channel Interference in Multi-Channel VANETs Claudia Campolo (University Mediterranea of Reggio Calabria, Italy), Christoph Sommer (Paderborn University, Germany), Falko Dressler (University of Paderborn, Germany), Antonella Molinaro (University Mediterranea of Reggio Calabria, Italy) An efficient SCH utilization scheme for IEEE 1609.4 multi-channel environments in VANETs Deuk Lee (Georgia Institute of Technology, USA), Syed Hassan Ahmed (Kyungpook National University, Korea), Dongkyun Kim (Kyungpook National University,?), John A. Copeland (Georgia Institute of Technology, USA), Yusun Chang (Kennesaw State University & The	2608
Mobile an	Multi-Hop Reliability for Broadcast-based VANET in City Environments Wiem Benrhaiem (University of Montreal, Canada), Abdelhakim Hafid (University of Montreal, Canada), Pratap Kumar Sahu (University of Montreal, Canada) On the Impact of Adjacent Channel Interference in Multi-Channel VANETs Claudia Campolo (University Mediterranea of Reggio Calabria, Italy), Christoph Sommer (Paderborn University, Germany), Falko Dressler (University of Paderborn, Germany), Antonella Molinaro (University Mediterranea of Reggio Calabria, Italy) An efficient SCH utilization scheme for IEEE 1609.4 multi-channel environments in VANETs Deuk Lee (Georgia Institute of Technology, USA), Syed Hassan Ahmed (Kyungpook National University, Korea), Dongkyun Kim (Kyungpook National University, ?), John A. Copeland	2608
Mobile an	Multi-Hop Reliability for Broadcast-based VANET in City Environments Wiem Benrhaiem (University of Montreal, Canada), Abdelhakim Hafid (University of Montreal, Canada), Pratap Kumar Sahu (University of Montreal, Canada) On the Impact of Adjacent Channel Interference in Multi-Channel VANETs Claudia Campolo (University Mediterranea of Reggio Calabria, Italy), Christoph Sommer (Paderborn University, Germany), Falko Dressler (University of Paderborn, Germany), Antonella Molinaro (University Mediterranea of Reggio Calabria, Italy) An efficient SCH utilization scheme for IEEE 1609.4 multi-channel environments in VANETs Deuk Lee (Georgia Institute of Technology, USA), Syed Hassan Ahmed (Kyungpook National University, Korea), Dongkyun Kim (Kyungpook National University,?), John A. Copeland (Georgia Institute of Technology, USA), Yusun Chang (Kennesaw State University & The Georgia Institute of Technology, USA) Team Communication Strategy for Collaborative Exploration by Autonomous Vehicles Akhila Rao (Swedish Institute of Computer Science & Luleå University of Technology, Sweden), Fehmi Ben Abdesslem (Swedish Institute of Computer Science, Sweden), Anders	2608 2615
Mobile an	Multi-Hop Reliability for Broadcast-based VANET in City Environments Wiem Benrhaiem (University of Montreal, Canada), Abdelhakim Hafid (University of Montreal, Canada), Pratap Kumar Sahu (University of Montreal, Canada) On the Impact of Adjacent Channel Interference in Multi-Channel VANETs Claudia Campolo (University Mediterranea of Reggio Calabria, Italy), Christoph Sommer (Paderborn University, Germany), Falko Dressler (University of Paderborn, Germany), Antonella Molinaro (University Mediterranea of Reggio Calabria, Italy) An efficient SCH utilization scheme for IEEE 1609.4 multi-channel environments in VANETs Deuk Lee (Georgia Institute of Technology, USA), Syed Hassan Ahmed (Kyungpook National University, Korea), Dongkyun Kim (Kyungpook National University,?), John A. Copeland (Georgia Institute of Technology, USA), Yusun Chang (Kennesaw State University & The Georgia Institute of Technology, USA) Team Communication Strategy for Collaborative Exploration by Autonomous Vehicles Akhila Rao (Swedish Institute of Computer Science & Luleå University of Technology,	2608 2615
Mobile an	Multi-Hop Reliability for Broadcast-based VANET in City Environments Wiem Benrhaiem (University of Montreal, Canada), Abdelhakim Hafid (University of Montreal, Canada), Pratap Kumar Sahu (University of Montreal, Canada) On the Impact of Adjacent Channel Interference in Multi-Channel VANETs Claudia Campolo (University Mediterranea of Reggio Calabria, Italy), Christoph Sommer (Paderborn University, Germany), Falko Dressler (University of Paderborn, Germany), Antonella Molinaro (University Mediterranea of Reggio Calabria, Italy) An efficient SCH utilization scheme for IEEE 1609.4 multi-channel environments in VANETs Deuk Lee (Georgia Institute of Technology, USA), Syed Hassan Ahmed (Kyungpook National University, Korea), Dongkyun Kim (Kyungpook National University,?), John A. Copeland (Georgia Institute of Technology, USA), Yusun Chang (Kennesaw State University & The Georgia Institute of Technology, USA) Team Communication Strategy for Collaborative Exploration by Autonomous Vehicles Akhila Rao (Swedish Institute of Computer Science & Luleå University of Technology, Sweden), Fehmi Ben Abdesslem (Swedish Institute of Computer Science, Sweden), Anders Lindgren (Swedish Institute of Computer Science, Sweden), Artur Ziviani (LNCC, Brazil)	2608 2615

ICC'16 CISS: IEEE ICC 2016 Communication and Information Systems Security Symposium

Mobile and Wireless Network Security II

	Proactive Eavesdropping via Cognitive Jamming in Fading Channels Jie Xu (Singapore University of Technology and Design, Singapore), Lingjie Duan (Singapore University of Technology and Design (SUTD), Singapore), Rui Zhang (National University of Singapore, Singapore)	2634
	An Error Probability Analysis of Jamming Against Wireless Networks SaiDhiraj Amuru (Samsung, India), Harpreet S Dhillon (Virginia Tech, USA), Michael Buehrer (Virginia Tech, USA)	
	On Achievable Secrecy Rate by Noise Aggregation over Wireless Fading Channels Qian Xu (Xi'an Jiaotong University, P.R. China), Pinyi Ren (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), Yichen Wang (Xi'an Jiaotong University, P.R. China)	
	Information Sharing in Cooperative Networks: a Generic Trustworthy Issue Chunxiao Jiang (Tsinghua University, Beijing, P.R. China), Yong Ren (Tsinghua University, Beijing, P.R. China), Hsiao-Hwa Chen (National Cheng Kung University, Taiwan), Mohsen Guizani (QU, USA)	
	Building Suspiciousness Cascading Graph over Multiple Hosts for Detecting Targeted Attacks Nobutaka Kawaguchi (Hitachi,ltd., Japan), Hideyuki Tomimura (Hitachi, ltd., Japan), Mamoru Tsuichihara (Hitachi Advanced Systems Corporation, Japan)	
Application	on Security (Interactive)	
	Whole Home Proxies: Bringing Enterprise-Grade Security to Residential Networks Curtis Taylor (Worcester Polytechnic Institute, USA), Craig A. Shue (Worcester Polytechnic Institute, USA), Mohamed E. Najd (Worcester Polytechnic Institute, USA)	2664
	Content based Image Authentication with Error Correction Obaid Ur-Rehman (University of Siegen, Germany), Natasa Zivic (University of Siegen, Germany), Christoph Ruland (University of Siegen, Germany)	
	Protocol-independent Identification of Encrypted Video Traffic Sources Using Traffic Analysis	
	Yan Shi (Michigan State University, USA), Subir Biswas (Michigan State University, USA)	2675
	Polarization based secure AES key transmission over optical fiber Shweta Bhosale (University of Oklahoma, USA), Bhagyashri Darunkar (University of Oklahoma, USA), Nikhil Punekar (University of Oklahoma, USA), Gregory MacDonald (University of Oklahoma, USA), Pramode K. Verma (The University of Oklahoma, USA) A Simple Intrusion Detection Method for CAN	

ICC'16 CQRM: IEEE ICC 2016 - Communication QoS, Reliability and Modeling Symposium

Multimedia Communications

Anticipatory Radio Resource Management for Mobile Video Streaming with Linear Programming	
Dimitrios Tsilimantos (France Research Center, Huawei Technologies Co. Ltd., France),	
Amaya Nogales-Gomez (Huawei Technologies, France), Stefan Valentin (Huawei	
Technologies, France)	2694

Weiwei Li (University of Toronto, Canada), Petros Spachos (University of Guelph, Canada), Mark Chignell (University of Toronto, Canada), Alberto Leon-Garcia (University of Toronto, Canada), Loon Zucharman (TELLIS, Canada), Jia Jiang (TELLIS, Canada)	270/
Canada), Leon Zucherman (TELUS, Canada), Jie Jiang (TELUS, Canada)	2/00
Towards Reduced Reference Parametric Models for Estimating Audiovisual Quality in Multimedia Services	
Edip Demirbilek (Institut National de la Recherche Scientifique, Canada), Jean-Charles Grégoire (University of Quebec, INRS, Canada)	2706
H.265 Video Capacity over beyond-4G networks	
Aman Jassal (University of British Columbia, Canada), Cyril Leung (The University of British Columbia, Canada)	2712
Non-Conforming Behavior Detection for VoIP-Based Network Systems	
Panagiotis Galiotos (University of Patras, Greece), Christos Anagnostopoulos (University of Piraeus, Greece), Tasos Dagiuklas (Hellenic Open University & University of Patras, Greece), Stavros Kotsopoulos (University of Patras, Greece)	2718
ICC'16 CRN: IEEE ICC 2016 - Cognitive Radio and Networks Symposium	
Spectrum Sharing I	
Licensed-Assisted Access for LTE in Unlicensed Spectrum: A MAC Protocol Design	
Shiying Han (Nanyang Technological University, Singapore), Ying-Chang Liang (Institute for	
Infocomm Research, Singapore), Qian Chen (Institute for Infocomm Research, Singapore),	
Boon Hee Soong (Nanyang Technological University, Singapore)	272
Optimizing Outdoor White-Fi Networks in TV White Spaces	
Sneihil Gopal (IIIT Delhi, India), Sanjit Kaul (IIIT Delhi, India), Sumit Roy (University of Washington, USA)	273
Aggregation in TV White Space and Assessment of an Aggregation-Capable IEEE 802.11 White Space Device	
Oliver Holland (King's College London, United Kingdom), Adnan Aijaz (Toshiba Research Europe Ltd, United Kingdom), Shuyu Ping (King's College London, United Kingdom), Stan Wong (King's College London, United Kingdom), Jane Mack (InterDigital Communications, Inc., USA), Lisa Lam (InterDigital Communications, Inc., USA), Alejandro de la Fuente (Universidad Carlos III de Madrid, Spain)	273
Distributed Design for Fair Coexistence in TVWS	, _
Vito Trianni (National Research Council - CNR, Italy), Angela Sara Cacciapuoti (University of Naples Federico II, Italy), Marcello Caleffi (University of Naples "Federico II", Italy)	274
New LSA-based Approach for Spectral Coexistence of MIMO Radars and Wireless Communications Systems	
Ebtihal H. G. Yousif (University of Edinburgh, United Kingdom), Miltiades C. Filippou (Intel Germany GmbH, Germany), Faheem A. Khan (University of Edinburgh, United Kingdom), Tharmalingam Ratnarajah (The University of Edinburgh, United Kingdom), Mathini Sellathurai	274
(Heriot-Watt University, United Kingdom)	2/4
ICC'16 CT: IEEE ICC 2016 - Communications Theory	
Coding I	
An Improved Design of Overlapped Chunked Codes Bin Tang (Nanjing University, P.R. China), Shenghao Yang (The Chinese University of Hong	

	Interpolation Based Progressive Algebraic Chase Decoding of Reed-Solomon Codes Jiancheng Zhao (Sun Yat-sen University, P.R. China), Li Chen (Sun Yat-sen University, P.R.	
	China), Xiao Ma (Sun Yat-sen University, P.R. China), Martin Johnston (Newcastle University, United Kingdom)	2760
	Non-Surjective Finite Alphabet Iterative Decoders Thien Truong Nguyen-Ly (CEA-LETI, France), Khoa Le Trung (University of Cergy-Pontoise, ENSEA, CNRS, France), Valentin Savin (CEA LETI, France), David Declercq (ETIS ENSEA/univ. of Cergy-Pontoise/CNRS, France), Fakhreddine Ghaffari (ENSEA, France), Oana Boncalo (University Politehnica Timisoara, Romania)	2766
	Efficient Transmission Schemes for Correcting Insertions/Deletions in DPPM	
	Weigang Chen (Tianjin University, P.R. China), Yuan Liu (Tianjin University, P.R. China)	2772
	Physical-Layer Network-Coding over Block Fading Channels with Root-LDA Lattice Codes Ping-Chung Wang (Texas A&M University, USA), Yu-Chih Huang (National Taipei University, Taiwan), Krishna Narayanan (Texas A&M University, USA), Joseph Jean Boutros (Texas A&M University at Qatar, Qatar)	2778
ICC'16 G Wireless P	CSN: IEEE ICC 2016 - Green Communications Systems and Networks	
	Resource Allocation in Wireless Powered Relay Networks Through A Nash Bargaining Game Zijie Zheng (Peking University, P.R. China), Lingyang Song (Peking University, P.R. China), Dusit Niyato (Nanyang Technological University, Singapore), Zhu Han (University of Houston, USA)	2794
	K-tier Heterogeneous Cellular Networks with Wireless Power Transfer	2/04
	Yansha Deng (King's College London, United Kingdom), Lifeng Wang (University College London, United Kingdom), Maged Elkashlan (Queen Mary, University of London, United Kingdom), Marco Di Renzo (Paris-Saclay University / CNRS, France), Jinhong Yuan (University of New South Wales, Australia)	2790
	Optimal Multiuser Scheduling for Wireless Powered Communication Systems	
	Yang Li (Xi'an Jiaotong University, P.R. China), Rui Wang (The South University of Science and Technology of China, P.R. China), Xuewen Liao (Xi'an Jiaotong University, P.R. China), Shihua Zhu (Xi'an Jiaotong University, P.R. China)	2796
	Optimal Power Allocation and Relay Placement for Wireless Information and RF Power Transfer	
	Deepak Mishra (Indian Institute of Technology Delhi, India), Swades De (Indian Institute of Technology Delhi, India)	2802
	Simultaneous Information and Energy Transfer in Large-Scale Cellular Networks with Sleep Mode	
	Kun Chen (Beijing University of Posts and Telecommunications, P.R. China), Xiangming Wen (Beijing University of Posts and Telecommunications, P.R. China), Wenpeng Jing (Beijing University of Posts and Telecommunications, P.R. China), Zhaoming Lu (BUPT, P.R. China), Hua Shao (Beijing Bniversity of Posts and Telecommunications, P.R. China), Heng Xu (Beijing University of Posts and Telecommunications, P.R. China)	2808
ICC'16 M	WN: IEEE ICC 2016 - Mobile and Wireless Networking Symposium	
	Switch-off Strategy of Base Stations in HCPP Random Cellular Networks Haoming Jia (Huazhong University of Science and Technology, P.R. China), Jiaqi Chen (Huazhong University of Science and Technology, P.R. China), Ge Xiaohu (Huazhong University of Science & Technology, P.R. China), Qiang Li (Huazhong University of Science and Technology, P.R. China)	2814

Modelling and Performance Evaluation of Non-Uniform Two-tier Cellular Networks through Stienen Model	
Raul Hernandez-Aquino (University of Leeds, United Kingdom), Syed Ali Raza Zaidi (University of Leeds, United Kingdom), Desmond McLernon (The University of Leeds, United Kingdom), Mounir Ghogho (University of Leeds & International University of Rabat, United Kingdom)	2820
Performance Analysis Of Full Duplex Self-Backhauling Cellular Network	
Ankit Sharma (Indian Institute of Technology - Madras, India), Radha Krishna Ganti (Indian Institute of Technology Madras, India), Klutto Milleth (Centre of Excellence in Wireless Technology, India)	2826
Dynamic User Association and eICIC Management in Heterogeneous Cellular Networks	
Jeongsik Choi (Seoul National University, Korea), Woong-hee Lee (Seoul National University Korea), YoungJoon Kim (Seoul National University, Korea), Seong-Cheol Kim (Seoul National University, Korea)	l
Green Energy Driven User Association in Cellular Networks with Dual Battery System	
Xilong Liu (New Jersey Institute of Technology, USA), Xueqing Huang (New Jersey Institute Technology, USA), Nirwan Ansari (New Jersey Institute of Technology, USA)	
Vehicular Networks	
On the Achievable Throughput of Cooperative Vehicular Networks	
Jieqiong Chen (University of Technology Sydney, Australia), Ammar Zafar (University of Technology Sydney (UTS), Australia), Guoqiang Mao (The University of Technology, Sydney Australia), Changle Li (Xidian University, P.R. China)	
Offloading Cellular Networks Through V2V Communications - How to Select the Seed-Vehicles	
Farouk Mezghani (University of Toulouse, France), Riadh Dhaou (IRIT/ENSEEIHT, University of Toulouse, France), Michele Nogueira (Federal University of Parana (UFPR) & Carnegie Mellon University (CMU), Brazil), André-Luc Beylot (University of Toulouse, France)	
Coupled Simulation of Mobile Cellular Networks, Road Traffic and V2X applications using Trace	S
Norbert Goebel (Heinrich Heine University Düsseldorf, Germany), Raphael Bialon (Heinrich Heine University Düsseldorf, Germany), Martin Mauve (Heinrich Heine University Düsseldorf, Germany), Kalman Graffi (Heinrich Heine University Düsseldorf, Germany)	
An Experimentation of VANETs for Traffic Management	
Guillaume Blot (Universite 'Paris-Sorbonne, France), Hacene Fouchal (Université de Reims Champagne-Ardenne, France), Francis Rousseaux (Ircam, France), Pierre Saurel (Paris 4, France)	2864
Power Control for Broadcast V2V Communications with Adjacent Carrier Interference Effects	
Anver Hisham (Chalmers University of Technology, Sweden), Wanlu Sun (Chalmers Universi of Technology, Sweden), Erik G Ström (Chalmers University of Technology, Sweden), Fredri Brännström (Chalmers University of Technology, Sweden)	k
ICC'16 NGN: IEEE ICC 2016 - Next-Generation Networking and Internet Sym	
Mobile/Wireless Content Distribution II	
Applicability assessment of terahertz information showers for next-generation wireless networks	
Vitaly Petrov (Tampere University of Technology, Finland), Dmitri Moltchanov (Tampere University of Technology, Finland), Yevgeni Koucheryavy (Tampere University of Technology Finland)	
Mobility Increases Throughput of Wireless Device-to-Device Networks with Coded Caching	2070
Ahmad Shabani Baghani (University of Tehran, Iran), Seyed Pooya Shariatpanahi (Institute for Research in Fundamental Sciences (IPM), Iran), Vahid Shah-Mansouri (University of Tehran, Iran), Ahmad Khonsari (University of Tehran, Iran)	2883

Xiang Sun (New Jersey Institute of Technology, USA), Nirwan Ansari (New Jersey Institute of Technology, USA)	2880
Context-Aware Data Caching for 5G Heterogeneous Small Cells Networks	. 2009
Zheng Chang (University of Jyväskylä, Finland), Yunan Gu (University of Houston, USA), Zhu Han (University of Houston, USA), Xianfu Chen (VTT Technical Research Centre of Finland, Finland), Tapani Ristaniemi (University of Jyväskylä, Finland)	. 2895
Complex Network Theoretical Analysis on Information Dissemination over Vehicular Networks	
Jingjing Wang (Tsinghua University, Beijing, P.R. China), Chunxiao Jiang (Tsinghua University, Beijing, P.R. China), Longxiang Gao (Deakin University, Australia), Shui Yu (Deakin University, Australia), Zhu Han (University of Houston, USA), Yong Ren (Tsinghua University, Beijing, P.R. China)	. 2901
Software Defined Networking II	
Design and Implementation of Device-to-Device Software-Defined Networks	
Mingxin Zhou (Peking University, P.R. China), HuanYu Zhang (Peking University, P.R. China), Shengli Zhang (Shenzhen University, P.R. China), Lingyang Song (Peking University, P.R. China), Yonghui Li (University of Sydney, Australia), Zhu Han (University of Houston, USA)	. 2907
Christelle Al Hasrouty (University of Bordeaux, France), Vincent Autefage (LaBRI, University	
of Bordeaux, France), Cristian Olariu (University College Dublin, Ireland), Damien Magoni (University of Bordeaux, France), John Murphy (University College Dublin, Ireland)	. 2913
On using bargaining game for Optimal Placement of SDN controllers	
Adlen Ksentini (Eurecom, France), Miloud Bagaa (Aalto University, Finland), Tarik Taleb (Aalto University, Finland), Ilangko Balasingham (Norwegian University of Science & Technology & Oslo University Hospital, Norway)	2920
A Novel Neuro-Optimization Method for Multi-Operator Scheduling in Cloud-RANs	
Hazem Soliman (University of Toronto, Canada), Alberto Leon-Garcia (University of Toronto, Canada)	2926
Towards a Cognitive Routing Engine for Software Defined Networks	
Frederic Francois (Imperial College London, United Kingdom), Erol Gelenbe (Imperial College London, United Kingdom)	. 2932
ICC'16 ONS: IEEE ICC 2016 - Optical Networks and Systems Visible Light and Optical Wireless Communications II	
Analysis of Area Data Rate with Shadowing Effects in Li-Fi and RF Hybrid Network	
Yunlu Wang (The University of Edinburgh, United Kingdom), Xiping Wu (The University of Edinburgh, United Kingdom), Harald Haas (The University of Edinburgh, United Kingdom)	. 2938
Optical Wireless Scattering Channel Estimation for Photon-Counting Receiver	
Chen Gong (USTC, P.R. China), Xiaoke Zhang (University of Science and Technology of China, P.R. China), Zhengyuan Xu (University of Science and Technology of China, P.R. China), Lajos Hanzo (University of Southampton, United Kingdom)	2943
Adaptive Relay Selection Protocol for the Parallel Hybrid RF/FSO Relay Channel	
Marzieh Najafi (K. N. Toosi University of Technology, Iran), Vahid Jamali (Friedrich-Alexander-University Erlangen-N¨urnberg, Germany), Robert Schober (University of British Columbia, Canada)	. 2950
Columbia, Cariada,	. 2,500

PRIMAL: PRofIt Maximization Avatar pLacement for Mobile Edge Computing

QoS-Aware and Energy-Aware Adaptive Power Allocations for Coherent Optical Wireless Communications	
Md. Zoheb Hassan (School of Engineering, University of British Columbia, Canada), Victor C.M. Leung (University of British Columbia, Canada), Md. Jahangir Hossain (Universtiy of British Columbia, Canada), Julian Cheng (University of British Columbia, Canada)	2957
Resilient Backhaul Network Design Using Hybrid Radio/Free-Space Optical Technology	
Ahmed Douik (California Institute of Technology, USA), Hayssam Dahrouj (Effat University, Canada), 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)	2964
ICC'16 SAC-2 CCN: IEEE ICC 2016 SAC Cloud Communications and Networkin	ıg
Cloud Networks and Data Centers	
Design and Evaluation of SDN-based Orchestration System for Cloud Data Centers	
Barbara Martini (CNIT, Italy), Davide Adami (CNIT Pisa Research Unit, University of Pisa, Italy), Molka Gharbaoui (Scuola Superiore Sant'Anna, Italy), Lisa Donatini (University of Pisa, Italy), Piero Castoldi (Scuola Superiore Sant'Anna, Italy), Stefano Giordano (University of Pisa, Italy)	2971
Game Theory Based Reliable Virtual Network Mapping for Cloud Infrastructure	
Yi Zhu (Hawaii Pacific University, USA), Jiru Xu (Hawaii Pacific University, USA), Qiong Zhang (Fujitsu Laboratories of America, USA), Xi Wang (Fujitsu Laboratories of America, USA), Paparao Palacharla (FLA, USA), Tadashi Ikeuchi (Fujitsu Laboratories of America, Inc., USA)	2977
Fog Computing in Multi-Tier Data Center Networks: A Hierarchical Game Approach	
Huaqing Zhang (University of Houston, USA), Yong Xiao (University of Houston, USA), Shengrong Bu (University of Glasgow, United Kingdom), Dusit Niyato (Nanyang Technological University, Singapore), F. Richard Yu (Carleton University, Canada), Zhu Han (University of Houston, USA)	2984
An Index Based Task Assignment Policy for Achieving Optimal Power-Delay Tradeoff in Edge Cloud Systems	
Xueying Guo (Tsinghua University, P.R. China), Rahul Singh (Massachusetts Institute of Technology, USA), Tianchu Zhao (Tsinghua University, P.R. China), Zhisheng Niu (Tsinghua University, P.R. China)	2990
Mobility Prediction Model-based Service Migration Procedure for Follow Me Cloud to support QoS and QoE	
Apollinaire Nadembega (University of Montreal, Canada), Abdelhakim Hafid (University of Montreal, Canada), Ronald Brisebois (Bibliomondo, Canada)	2997
ICC'16 SAC-6 CSG: IEEE ICC 2016 SAC Communications for the Smart Grid	
100 10 SAC-0 CSG. IEEE 100 2010 SAC Communications for the Smart Grid	
Communications for the Smart Grid (Interactive)	
NBI Cancellation for Smart Grid Communications: A Block Sparse Bayesian Learning Perspective	
Sicong Liu (Tsinghua University & Research Institute of Information Technology, Tsinghua National Laboratory of Information Science an, P.R. China), Fang Yang (Tsinghua University, P.R. China), Wenbo Ding (Tsinghua University, P.R. China), Jian Song (Tsinghua University, P.R. China)	3003

0	On the Dynamics of the RPL Protocol in AMI Networks under Jamming Attacks
	João Renófio (Pontifical Catholic University of Parana, Brazil), Marcelo Eduardo Pellenz
	(Pontifical Catholic University of Paraná, Brazil), Edgard Jamhour (PPGIA, Pontificia
	Universidade Catolica do Parana, Brazil), Altair O. Santin (Pontifical Catholic University of
	Parana (PUCPR), Brazil), Manoel Camillo Penna (Pontifical Catholic University of Parana,
	Brazil), Richard Demo Souza (Federal University of Technology - Paraná (UTFPR), Brazil)

ICC'16 SAC-5 IoT: IEEE ICC 2016 SAC Internet of Things

Location, Management and Infrastructure Services for IoT

A Deployable Routing System for Nanonetworks	
Christos Liaskos (Institute of Computer Science, Foundation of Research and Technology, Hellas, Greece), Angeliki Tsioliaridou (Foundation for Research and Technology, Greece), Sotiris Ioannidis (Foundation for Research and Technology - Hellas, Greece), Nikolaos V. Kantartzis (Aristotle University of Thessaloniki, Greece), Andreas Pitsillides (University of Cyprus, Cyprus)	3015
Locating User Equipments and Access Points using RSSI Fingerprints: A Gaussian Process Approach	
Simon Yiu (Bell Labs, Alcatel-Lucent, USA), Marzieh Dashti (Bell Labs, Nokia, Ireland), Holger Claussen (Bell Labs, Alcatel-Lucent, Ireland), Fernando Perez-Cruz (Bell Labs, Alcatel-Lucent, USA)	3021
Dynamic M2M Device Attachment and Redirection in Virtual Home Gateway Environments	
Apostolos Papageorgiou (NEC Laboratories Europe, Germany), Roberto Bifulco (NEC Laboratories Europe, Germany), Ernö Kovacs (NEC Europe Ltd., Germany), Hans-Jörg Kolbe (Deutsche Telekom, Germany)	3027
Topology Maps and Distance-Free Localization from Partial Virtual Coordinates for IoT	
Anura P Jayasumana (Colorado State University, USA), Randy Paffenroth (Worcester Polytechnic Institute, USA), Sridhar Ramasamy (Colorado State University, USA)	3033
One More Hash is Enough: Efficient Tag Stocktaking in Highly Dynamic RFID Systems	
Xuan Liu (Hunan University, P.R. China), Bin Xiao (The Hong Kong Polytechnic University, Hong Kong), Shigeng Zhang (Central South University, P.R. China), Kai Bu (Zhejiang	
University, P.R. China)	3039

ICC'16 SAC-8 SN: IEEE ICC 2016 SAC Social Networking

Social Networking (Interactive)

Accelerating Graph Mining Algorithms via Uniform Random Edge Sampling	
Ruohan Gao (The Chinese University of Hong Kong, Hong Kong), Huanle Xu (The Chinese University of Hong Kong, Hong Kong), Pili Hu (The Chinese University of Hong Kong Kong, Hong Kong), Wing Cheong Lau (The Chinese University of Hong Kong, Hong Kong)	3045
A Probabilistic Framework for Structural Analysis in Directed Networks	
Cheng-Shang Chang (National Tsing Hua University, Taiwan), Duan-Shin Lee (National Tsing Hua University, Taiwan), Li-Heng Liou (National Tsing Hua University, Taiwan), Sheng-Min Lu (National Tsing Hua University, Taiwan), Mu-Huan Wu (National Tsing Hua University,	
Taiwan)	3051

ICC'16 SPC: IEEE ICC 2016 - Signal Processing for Communications Symposium

Localization

Sing	le Snapshot Joint Estimation of Angles and Times of Arrival: A 2D Matrix Pencil Approach	
	nmad Bazzi (EURECOM & RivieraWaves-A CEVA COMPANY, France), Dirk Slock (EURECOM, ance), Lisa Meilhac (CEVA-RivieraWaves, France)	3057
	he Performance of Map-Aware Cooperative Localization	
Ka	iqing Zhang (University of Illinois at Urbana-Champaign, USA), Yuan Shen (Tsinghua niversity, P.R. China), Moe Win (Massachusetts Institute of Technology, USA)	3063
Com	pressive Sensing-Based 3D Signal Extraction for MIMO Passive Radar Using OFDM reforms	
	atcharapong Ketpan (Heriot-Watt University, United Kingdom), Mathini Sellathurai (Heriot- att University, United Kingdom)	3069
Posi	tioning Third-Party Receiver via TDOA Estimation in Frequency Duplex Division Systems	
Gu Ch Ca	Chang (University of Electronic Science and Technology of China (UESTC), P.R. China), and composite the composite that the comp	3075
Fine WLA	-grained Indoor Tracking by Fusing Inertial Sensor and Physical Layer Information in Ns	
Ec	n Li (University of Bern, Switzerland), Marco Danilo Burbano Acuña (University of Bern, uador), Zhongliang Zhao (University of Bern, Switzerland), Jose Carrera (University of ern, Switzerland), Torsten Ingo Braun (University of Bern, Switzerland)	3081
	mmunications (Interactive)	
rrier Co Secu	mmunications (Interactive) ure Multicarrier DS/SS with Induced Random Flipping	
rier Co Secu Jir (G	mmunications (Interactive) ure Multicarrier DS/SS with Induced Random Flipping sho Choi (Gwangju Institute of Science and Technology (GIST), Korea), Euiseok Hwang swangju Institute of Science and Technology, Korea)	
rier Co Secu Jir (G Mini	mmunications (Interactive) ure Multicarrier DS/SS with Induced Random Flipping who Choi (Gwangju Institute of Science and Technology (GIST), Korea), Euiseok Hwang wangju Institute of Science and Technology, Korea) mum-EVM N-continuous OFDM	
Secu Jir (G Mini. Me	mmunications (Interactive) ure Multicarrier DS/SS with Induced Random Flipping sho Choi (Gwangju Institute of Science and Technology (GIST), Korea), Euiseok Hwang swangju Institute of Science and Technology, Korea)	3088
Secu Jir (G Mini Me Te	mmunications (Interactive) are Multicarrier DS/SS with Induced Random Flipping who Choi (Gwangju Institute of Science and Technology (GIST), Korea), Euiseok Hwang wangju Institute of Science and Technology, Korea) mum-EVM N-continuous OFDM edhat Mohamad (Luleå Technical University, Sweden), Rickard Nilsson (Luleå University of	3088
Secu Jir (G Mini Me Te Sem Yu Kii (U	Immunications (Interactive) Jure Multicarrier DS/SS with Induced Random Flipping Joho Choi (Gwangju Institute of Science and Technology (GIST), Korea), Euiseok Hwang John Science and Technology, Korea) John Market Market Market Market Milsson (Luleå University of Science Induced University of Technology, Sweden) John Market Milsson (Luleå University of Technology, Sweden) John Milsson (Luleå University of Liverpool, United Kingdom), Xu Zhu (University of Liverpool, United Ingdom), Eng Gee Lim (Xi'an Jiaotong-Liverpool University, P.R. China), Yi Huang John Milsson (Luleå University of Liverpool, United Kingdom), Zhongxiang Wei (University of Liverpool & School)	3088
Secu Jir (G Mini Me Te Sem Yu Kii (U	mmunications (Interactive) The Multicarrier DS/SS with Induced Random Flipping The Choi (Gwangju Institute of Science and Technology (GIST), Korea), Euiseok Hwang Twangju Institute of Science and Technology, Korea) Twan-EVM N-continuous OFDM Technology, Sweden), Jaap van de Beek (Luleå University of Technology, Sweden) Twi-Blind Precoding aided ML CFO Estimation for ICA based MIMO OFDM Systems Tifei Jiang (University of Liverpool, United Kingdom), Xu Zhu (University of Liverpool, United Ingdom), Eng Gee Lim (Xi'an Jiaotong-Liverpool University, P.R. China), Yi Huang Third Transport of Liverpool, United Kingdom), Zhongxiang Wei (University of Liverpool & School EE and CS, United Kingdom), Hai Lin (Osaka Prefecture University, Japan)	3088
Secu Jir (G Mini. Me Te Sem Yu Kii (U of A No	mmunications (Interactive) are Multicarrier DS/SS with Induced Random Flipping The Choi (Gwangju Institute of Science and Technology (GIST), Korea), Euiseok Hwang Twangju Institute of Science and Technology, Korea) Twangju Institute of Science and Technology (GIST), Korea), Euiseok Hwangju Institute of Science and Technology, Korea) Twangju Institute of Science and Technology (GIST), Korea), Euiseok Hwangju Institute of Science and Technology, Korea) Twangju Institute of Science and Technology (GIST), Korea) Twangju Institute of Science and Technology (GIST) Twangju Institute	3088
Secu Jir (G Mini. Me Te Sem Yu Kii (U of A No	mmunications (Interactive) are Multicarrier DS/SS with Induced Random Flipping Tho Choi (Gwangju Institute of Science and Technology (GIST), Korea), Euiseok Hwang Twangju Institute of Science and Technology, Korea) mum-EVM N-continuous OFDM Technology, Sweden), Jaap van de Beek (Luleå University of Technology, Sweden) mi-Blind Precoding aided ML CFO Estimation for ICA based MIMO OFDM Systems fei Jiang (University of Liverpool, United Kingdom), Xu Zhu (University of Liverpool, United Ingdom), Eng Gee Lim (Xi'an Jiaotong-Liverpool University, P.R. China), Yi Huang niversity of Liverpool, United Kingdom), Zhongxiang Wei (University of Liverpool & School EE and CS, United Kingdom), Hai Lin (Osaka Prefecture University, Japan) Divel FPGA Implementation of Trellis Shaping for PAPR Reduction of OFDM Signals Triging Song (Yokohama National University, Japan), Hideki Ochiai (Yokohama National Iniversity, Japan)	3088 3093
Secu Jir (G Mini. Me Te Sem Yu Kii (U of A Na Jia	mmunications (Interactive) are Multicarrier DS/SS with Induced Random Flipping Tho Choi (Gwangju Institute of Science and Technology (GIST), Korea), Euiseok Hwang Twangju Institute of Science and Technology, Korea) mum-EVM N-continuous OFDM Technology, Sweden), Jaap van de Beek (Luleå University of Technology, Sweden) mi-Blind Precoding aided ML CFO Estimation for ICA based MIMO OFDM Systems fiei Jiang (University of Liverpool, United Kingdom), Xu Zhu (University of Liverpool, United Ingdom), Eng Gee Lim (Xi'an Jiaotong-Liverpool University, P.R. China), Yi Huang niversity of Liverpool, United Kingdom), Zhongxiang Wei (University of Liverpool & School EE and CS, United Kingdom), Hai Lin (Osaka Prefecture University, Japan) Divel FPGA Implementation of Trellis Shaping for PAPR Reduction of OFDM Signals This is a supplementation of Trellis Shaping for PAPR Reduction of OFDM Signals This is a supplementation of Trellis Shaping for PAPR Reduction of OFDM Signals This is a supplementation of Trellis Shaping for PAPR Reduction of OFDM Signals This is a supplementation of Trellis Shaping for PAPR Reduction of OFDM Signals This is a supplementation of Trellis Shaping for PAPR Reduction of OFDM Signals This is a supplementation of Trellis Shaping for PAPR Reduction of OFDM Signals	3088 3093
Secu Jir (G Mini Me Te Sem Yu Kii (U of A No Jia Ur Nove Se	mmunications (Interactive) are Multicarrier DS/SS with Induced Random Flipping Tho Choi (Gwangju Institute of Science and Technology (GIST), Korea), Euiseok Hwang Twangju Institute of Science and Technology, Korea) mum-EVM N-continuous OFDM Technology, Sweden), Jaap van de Beek (Luleå University of Technology, Sweden) mi-Blind Precoding aided ML CFO Estimation for ICA based MIMO OFDM Systems fei Jiang (University of Liverpool, United Kingdom), Xu Zhu (University of Liverpool, United Ingdom), Eng Gee Lim (Xi'an Jiaotong-Liverpool University, P.R. China), Yi Huang niversity of Liverpool, United Kingdom), Zhongxiang Wei (University of Liverpool & School EE and CS, United Kingdom), Hai Lin (Osaka Prefecture University, Japan) Divel FPGA Implementation of Trellis Shaping for PAPR Reduction of OFDM Signals Triging Song (Yokohama National University, Japan), Hideki Ochiai (Yokohama National Iniversity, Japan)	3088 3093
Secu Jir (G Mini. Me Te Sem Yu Kii (U of A No Jia Ur Nove Se se	mmunications (Interactive) are Multicarrier DS/SS with Induced Random Flipping sho Choi (Gwangju Institute of Science and Technology (GIST), Korea), Euiseok Hwang swangju Institute of Science and Technology, Korea) mum-EVM N-continuous OFDM edhat Mohamad (Luleå Technical University, Sweden), Rickard Nilsson (Luleå University of schnology, Sweden), Jaap van de Beek (Luleå University of Technology, Sweden) si-Blind Precoding aided ML CFO Estimation for ICA based MIMO OFDM Systems sfei Jiang (University of Liverpool, United Kingdom), Xu Zhu (University of Liverpool, United sngdom), Eng Gee Lim (Xi'an Jiaotong-Liverpool University, P.R. China), Yi Huang niversity of Liverpool, United Kingdom), Zhongxiang Wei (University of Liverpool & School EE and CS, United Kingdom), Hai Lin (Osaka Prefecture University, Japan) sovel FPGA Implementation of Trellis Shaping for PAPR Reduction of OFDM Signals sijia Song (Yokohama National University, Japan), Hideki Ochiai (Yokohama National siversity, Japan) sel MC-CDMA System Using Fourier Duals of Sparse Perfect Gaussian Integer Sequences en-Hung Wang (National Sun Yat-sen University, Taiwan), Chih-Peng Li (National Sun Yat-	3088 3093 3098

ICC'16 WCS: IEEE ICC 2016 - Wireless Communications Symposium

Energy Harvesting II

Wireless Information and Power Transfer in Full-Duplex Communication Systems Alexander Okandeji (University College London, United Kingdom), Muhammad R. A.	
Khandaker (University College London, United Kingdom), Kai Kit Wong (University College London, United Kingdom)	3121
Beamformer Design for Wireless Energy Transfer with Fairness	
Amanthi Ratnayake Thudugalage (University of Melbourne, Australia), Saman Atapattu (University of Melbourne, Australia), Jamie S Evans (University of Melbourne, Australia)	3127
Energy Harvesting Cooperative Multiple Access Channel with Data Arrivals	
Berk Gurakan (University of Maryland, USA), Onur Kaya (Isik University, Turkey), Sennur Ulukus (University of Maryland, USA)	3133
Wireless-Powered Communication Under Statistical Quality of Service Constraints	
Tewodros Zewde (Syracuse University, USA), M. Cenk Gursoy (Syracuse University, USA)	3139
Energy-Transferring Approach to Power Allocation with Energy Harvesting Constraints	
Fan Wu (University of Electronic Science and Technology of China, P.R. China), Supeng Leng (University of Electronic Science and Technology of China, P.R. China), Xiaoyan Huang (University of Electronic Science and Technology of China, P.R. China), Qin Yu (University of Electronic Science and Technology of China, P.R. China), Kun Yang (University of Essex, United Kingdom)	3145
Cooperative Networks and Relaying Communications III	
Distributed Multi-Relay Selection in Wireless-Powered Cooperative Networks with Energy Accumulation	
Yifan Gu (The University of Sydney, Australia), He Chen (The University of Sydney, Australia), Yonghui Li (University of Sydney, Australia), Branka Vucetic (University of Sydney, Australia)	3152
BICM-ID in Two-Way Relaying Communications	
Hongzhong Yan (University Of Saskatchewan, Canada), Ha Nguyen (University of Saskatchewan, Canada)	3158
Two-Way All-Optical AF Relaying FSO Systems over Malaga (M) Channels with Pointing Errors	
Phuc V. Trinh (The University of Aizu, Japan), Truong Cong Thang (The University of Aizu, Japan), Anh T. Pham (The University of Aizu, Japan)	3164
Capacity of the Two-Hop Full-Duplex Relay Channel with Wireless Power Transfer from Relay to Battery-less Source	
Nikola Zlatanov (Monash University, Australia), Derrick Wing Kwan Ng (University of New South Wales, Australia), Robert Schober (University of British Columbia, Canada)	3171
High Dense Multiway Relay Networks Exploiting Direct Links as Side Information	
Khoirul Anwar (Japan Advanced Institute of Science and Technology & Telkom University, Japan)	3178
Energy Efficient Communications	
Massive MIMO versus Small-Cell Systems: Spectral and Energy Efficiency Comparison	
Hieu Duy Nguyen (Institute for Infocomm Research (I2R), The Agency for Science, Technology and Research (ASTAR), Singapore), Sumei Sun (Institute for Infocomm Research, Singapore)	3184

MIMO HetNets with Wireless Backhaul: An Energy-Efficient Design	
Howard Yang (Singapore University of Technology and Design, Singapore), Giovanni Geraci (Bell Labs, Ireland), Tony Q. S. Quek (Singapore University of Technology and Design, Singapore)	3190
Achieving Energy-Efficiency in Two-Tiers Wireless Backhaul HetNets	3170
Tri Nguyen (ETS, Canada), Animesh Yadav (Memorial University of Newfoundland, Canada), Wessam Ajib (Université du Québec à Montréal, Canada), Chadi Assi (Concordia University, Canada)	3196
Energy Saving of Base Stations Sleep Scheduling for Multi-Hop Vehicular Networks	
Tao Han (Huazhong University of Science and Technology, P.R. China), Xiong Liu (Huazhong University of Science and Technology, P.R. China), Lijun Wang (Wenhua College, P.R. China), Jiang Wang (Shanghai Research Center for Wireless Communication, P.R. China), Kyung Sup Kwak (Inha University, Korea), Qiang Li (Huazhong University of Science and Technology, P.R. China)	3202
On the Energy Efficiency of Massive MIMO with Space-Constrained 2D Antenna Arrays	
Sudip Biswas (University of Edinburgh, United Kingdom), Christos Masouros (University College London, United Kingdom), Tharmalingam Ratnarajah (The University of Edinburgh, United Kingdom)	3207
Polarization Signaling for Wireless Communication Vischia Wu (University of Notes Dame, USA). There a Broth (University of Notes Dame, USA).	
Polarization Signaling for Wireless Communication Xiaobin Wu (University of Notre Dame, USA), Thomas Pratt (University of Notre Dame, USA),	
Thomas E Fuja (University of Notre Dame, USA)	3213
Joint MSE-Based Hybrid Precoder and Equalizer Design for Full-Duplex Massive MIMO Systems	
Ruikai Mai (McGill University, Canada), Duy H. N. Nguyen (University of Texas, Austin, USA), Tho Le-Ngoc (McGill University, Canada)	3219
Optimal Precoder Design for MIMO-OFDM: Understanding the Role of Power Amplifiers and Nonlinear Distortion Noise	
Zijian Wang (Université Catholique de Louvain, Belgium), Ivan Stupia (Université Catholique de Louvain, Belgium), Luc Vandendorpe (Université catholique de Louvain, Belgium)	3225
6 AHSN: IEEE ICC 2016 Ad-hoc and Sensor Networking Symposium and Vehicular Ad Hoc Networks III	
Cooperative Sensing Data Collecting Framework by using Unmanned Aircraft Vehicle in Wireless Sensor Network	2224
Shintaro Mori (Fukuoka University, Japan) Studying the Impact of DSRC Penetration Rate on Lane Changing Advisory Application	3231
Omar Chakroun (Université de Sherbrooke, Canada), Soumaya Cherkaoui (Université de Sherbrooke, Canada)	3237
HBA- Histogram Based Algorithm for Real Time Route Forecasting in Urban Area	
Hesham Elsayed (United Arab Emirates University, United Arab Emirates (UAE)), Liren Zhang (United Arab Emirates University, United Arab Emirates (UAE)), Gokulnath Thandavarayan (United Arab Emirates University, United Arab Emirates (UAE)), Yasser Hawas (United Arab Emirates University, United Arab Emirates (UAE))	3243
Development of Mobile Ad-hoc Networks over Wi-Fi Direct with Off-the-Shelf Android Phones	20
Kecheng Liu (Illinois Institute of Technology, USA), Wenlong Shen (Illinois Institute of Technology, USA), Bo Yin (Illinois Institute of Technology, USA), Xianghui Cao (Southeast University, P.R. China), Lin X. Cai (Illinois Institute of Technology, USA), Yu Cheng (Illinois	22.40
Institute of Technology, USA)	3249

ICC'16 CISS: IEEE ICC 2016 Communication and Information Systems Security **Symposium**

Privacy and Privacy Enhancing Technologies

Privacy-Preserving Publish/Subscribe Service in Untrusted Third-party Platform	
Tracy Yingying Cheng (City University of Hong Kong, Hong Kong), Wei Gao (City University of Hong Kong, Hong Kong), Xiaohua Jia (City University of Hong Kong, Hong Kong), Jianfei He (Huawei Technologies, Co., Ltd., P.R. China), Shucheng Liu (Huawei Technologies, P.R. China)	261
PROTECTOR: Privacy-Preserving Information Lookup in Content-Centric Networks	
Muhammad Rizwan Asghar (The University of Auckland, New Zealand), César Bernardini (University of Trento, Italy), Bruno Crispo (Universita di Trento, Italy)	267
EPPD: Efficient and Privacy-Preserving Proximity Testing with Differential Privacy Techniques	
Cheng Huang (Nanyang Technological University, Singapore), Rongxing Lu (Nanyang Technological University, Singapore), Hui Zhu (Xidian University, P.R. China), Jun Shao (Zhejiang Gongshang University, P.R. China), Abdulrahman Alamer (UOIT, Canada), Xiaodong Lin (University of Ontario Institute of Technology, Canada)	274
Security and Experimental performance analysis of a Matrix ORAM	
Karin Sumongkayothin (Japan Advance Institute of Science and Tehcnology & Sirindhorn International Institute of Technology, Thammasat University, Japan), Atsuko Miyaji (Japan Advanced Institute of Science and Technology, Japan), Chunhua Su (Japan Advanced Institute of Science and Technology, Japan), Steven Gordon (Central Queensland University, Australia)	280
AMA: Anonymous Mutual Authentication with Traceability in Carpooling Systems	
Jianbing Ni (University of Waterloo, Canada), Kuan Zhang (University of Waterloo, Canada), Xiaodong Lin (University of Ontario Institute of Technology, Canada), Haomiao Yang (University of Electronic Science and Technology of China & Center for Cyber Security, UESTC & Big Data Research Center, UESTC, P.R. China), Sherman Shen (University of Waterloo, Canada)	286

Authentication, Access Control, and Other Topics (Interactive)

Detection of Command and Control in Advanced Persistent Threat based on Independent Access	
Xu Wang (Beijing University of Posts and Telecommunications, P.R. China), Kangfeng Zheng	
(Beijing University of Posts and Telecommunications, P.R. China), Xinxin Niu (Electronic	
Engineer School Beijing University of Posts and Telecommunications, P.R. China), Bin Wu	
(Information Security Center, Beijing University of Posts and Telecommunications, P.R.	2202
China), Chunhua Wu (Beijing University of Posts and Telecommunications, P.R. China)	3292
DACPI: A Decentralized Access Control Protocol for Information Centric Networking	
Eslam AbdAllah (Queen's University, Canada), Mohammad Zulkernine (Queen's University, Canada), Hossam S. Hassanein (Queen's University, Canada)	3298
PiDFA: A Practical Multi-stride Regular Expression Matching Engine Based On FPGA	
Jia Jia Yang (University of Chinese Academy of Sciences, P.R. China), Lei Jiang (Institute of Information Engineering, Chinese Academy of Sciences, P.R. China), Qiu Tang (Institute of Information Engineering, Chinese Academy of Sciences, P.R. China), Qiong Dai (Institute of Information Engineering, Chinese Academy of Sciences, P.R. China), Jianlong Tan (Institute	
	3304

CFWatcher: A Novel Target-based Real-time Approach to Monitor Critical Files using VMI	
Dongyang Zhan (Harbin Institute of Technology, P.R. China), Lin Ye (Harbin Institute of Technology, P.R. China), Binxing Fang (Harbin Institute of Technology, P.R. China), Xiaojiang Du (Temple University, USA), Shen Su (Harbin Institute of Technology, P.R. China)	3311
User Capacity of Wireless Physical-layer Identification: An Information-theoretic Perspective	
Wenhao Wang (Peking University, P.R. China), Zhi Sun (State University of New York at Buffalo, USA), Kui Ren (State University of New York at Buffalo, USA), Bocheng Zhu (Peking University, P.R. China)	3317
Onversity, Fire Childy	3317
ICC'16 CQRM: IEEE ICC 2016 - Communication QoS, Reliability and Modeling Symposium	
QoE	
Bayesian Structural Equation Modeling of Multidimensional QoE in Haptic-Audiovisual Interactive Communications	
Shuji Tasaka (Nagoya Industrial Science Research Institute, Japan)	3323
When To Take What: QoE-Aware Resource Redistribution among Web Browsing Users and the Potential of Prioritizing QoE Sensitive Content	
Géza Szabó (Ericsson Research, Hungary), Sandor Rácz (Ericsson Research, Hungary), Szabolcs Malomsoky (Ericsson, Poland), Aldo Bolle (Ericsson, Sweden)	3329
User Spectral Efficiency: Combining Spectral Efficiency with User Experience	
Hung Xuan Nguyen (University of Adelaide, Australia), Bruce Northcote (University of Adelaide, Australia)	3335
Multiple Description-DASH: Pragmatic video streaming maximizing End-Users' Quality of Experience	
Joachim Bruneau-Queyreix (LaBRI - Bordeaux University & Viotech Communications, France), Daniel Négru (University of Bordeaux, France), Jordi Mongay Batalla (Warsaw University of Technology & National Institute of Telecommunications, Poland), Eugen Borcoci (University POLITEHNICA of Bucharest (CCSRST), Romania)	3341
Enriching HTTP Adaptive Streaming with Context Awareness: A Tunnel Case Study	
Eirini Liotou (University of Athens, Greece), Tobias Hoßfeld (University of Duisburg-Essen, Germany), Christian Moldovan (University of Duisburg-Essen, Germany), Florian Metzger	
(University of Duisburg-Essen, Germany), Dimitris Tsolkas (University of Athens, Greece), Nikos Passas (University of Athens, Greece)	3348
ICC'16 CRN: IEEE ICC 2016 - Cognitive Radio and Networks Symposium	
Spectrum Sharing II	
Sequential Detection and Average Sample Number for Cognitive Radio with Multiple Primary	
Transmit Power Levels Shuijun Cheng (Xidian University, P.R. China), Zan Li (Xidian University, P.R. China),	
Mohammad S. Obaidat (Fordham University, USA), Bo Ai (Beijing Jiaotong University & State Key Lab of Rail Traffic Control and Safety, P.R. China), Gongpu Wang (Beijing Jiaotong	
University, P.R. China)	3354
Average Interference-Constrained Cognitive Two-Way Relaying with Efficient Link Utilization	
Sourabh Solanki (Indian Institute of Technology Indore, India), Pankaj Kumar Sharma (Indian Institute of Technology Indore, India), Prabhat Kumar Upadhyay (Indian Institute of Technology Indore, India)	3360
<u> </u>	

Ali Cagatay Cirik (University of British Columbia, Canada), Sudip Biswas (University of Edinburgh, United Kingdom), Omid Taghizadeh (RWTH Aachen University, Germany), An Liu (Hong Kong University of Science and Technology, Hong Kong), Tharmalingam Ratnarajah (The University of Edinburgh, United Kingdom)	3366
Cognitive Two-Way Relay Beamforming: Design with Resilience to Channel State Uncertainties P Ubaidulla (International Institute of Information Technology, India), Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi Arabia), Sonia Aïssa (INRS, University of Quebec, Canada)	
Energy Efficiency of Sensing-Based Spectrum Sharing Technique for Cognitive Radio Systems	3373
Hyunsung Park (Yonsei University, Korea), Taewon Hwang (Yonsei University, Korea)	3378
ICC'16 CT: IEEE ICC 2016 - Communications Theory	
MIMO	
Receive Beamforming Optimization for MIMO System with Constant Envelope Precoding	
Shuowen Zhang (National University of Singapore, Singapore), Rui Zhang (National University of Singapore, Singapore), Teng Joon Lim (National University of Singapore, Singapore)	3384
Transmit Beamforming in Rayleigh Product MIMO Channels: Ergodic Mutual Information and Symbol Error Rate	
Zhong Zheng (University of Texas at Dallas, USA), Lu Wei (Harvard University, USA), Zygmunt Haas (University of Texas at Dallas, USA), Vahid Tarokh (Harvard University, USA)	3390
Selective Uplink Training for Massive MIMO Systems Changming Li (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)	3395
Mutual Information Approximation of CSI-T MIMO Precoders based on minimal distance probability	
Baptiste Vrigneau (University of Rennes 1 & IRISA Granit, France), Olivier Berder (University of Rennes 1, IRISA, INRIA, France)	3401
On the Sum DoF of the Asymmetric Four-User MIMO Y Channel Kangqi Liu (Shanghai Jiao Tong University, P.R. China), Meixia Tao (Shanghai Jiao Tong University, P.R. China)	3406
ICC'16 GCSN: IEEE ICC 2016 - Green Communications Systems and Networks Energy Efficiency 2	
Adaptive Measurement for Energy Efficient Mobility Management in Ultra-Dense Small Cell	
Networks Hsu Kao (National Taiwan University, Taiwan), Chen-Yu Wei (National Taiwan University, Taiwan), Hsiao-Ching Lin (National Taiwan University, Taiwan), Yi-Han Chiang (National Taiwan University, Taiwan), Wanjiun Liao (National Taiwan University, Taiwan)	3412
Energy efficient heterogeneous network deployment with Cell DTX	
Göran Andersson (Royal Institute of Technology (KTH), Sweden), Anders Vastberg (Royal Institute of Technology (KTH), Sweden), Alisa Devlic (Telecom Bretagne, France), Cicek Cavdar (KTH Royal Institute of Technology, Sweden)	3418

Robust Transceiver Design in Full-Duplex MIMO Cognitive Radios

S	pectral- and Energy- Efficient Analysis for Multi-cell Downlink MU-MIMO Systems	
	Jiancun Fan (Xi'an Jiaotong University, P.R. China), Zhikun Xu (China Mobile Research	
	Institute, P.R. China), Chih-Lin I (China Mobile Research Institute, P.R. China), Geoffrey Li (Georgia Tech, USA)	3424
Jo	pint Optimization of Content Caching and Push in Renewable Energy Powered Small Cells	
	Jie Gong (Sun Yat-sen University, P.R. China), Sheng Zhou (Tsinghua University, P.R. China), Zhenyu Zhou (North China Electric Power University & Waseda University, P.R. China), Zhisheng Niu (Tsinghua University, P.R. China)	3429
В	ackhaul-Aware Small Cell DTX based on Fuzzy Q-Learning in Heterogeneous Cellular Networks	5
	Antonio De Domenico (CEA-LETI Minatec, France), Valentin Savin (CEA LETI, France), Dimitri Kténas (CEA, France), Andreas Maeder (Nokia Networks, Germany)	. 3435
ICC'16 MV	VN: IEEE ICC 2016 - Mobile and Wireless Networking Symposium	
Multimedia 1	Fransmission	
M	Iulti-path Routing for Video Streaming in Multi-radio Multi-channel Wireless Mesh Networks	
	Chenlei Pan (Shanghai Jiao Tong Univerdity, P.R. China), Bo Liu (Deakin University, Australia), Haibo Zhou (University of Waterloo, Canada), Gui Lin (ShangHai JiaoTong University, P.R. China)	. 3441
S	calable Video Multicast Using Flexible Multicast Service over IEEE 802.11 WLAN	
	Yeonchul Shin (Seoul National University, Korea), Seungkyu Baek (Agency for Defense Development, Korea), Sunghyun Choi (Seoul National University, Korea), Byeong Gi Lee (Seoul National University, Korea)	. 3447
P	erceived Video Quality Evaluation based on Interactive/Repulsive relation between the QoE IFs	
	Lamine Amour (Paris Est Creteil University, France), Sami Souihi (University Paris Est UPEC, France), Muhammad Sajid Mushtaq (University of Paris-Est Creteil (UPEC) & Image, Signal and Intelligent Systems Laboratory-LISSI, France), Said Hoceini (UPEC, University Paris-Est Creteil Val de Marne, France), Abdelhamid Mellouk (UPEC, University Paris-Est Creteil Val de Marne, France)	3453
	oint User Association and Rate Allocation for HTTP Adaptive Streaming in Heterogeneous Fellular Networks	
	Renchao Xie (Beijing University of Posts and Telecommunications, P.R. China), F. Richard Yu (Carleton University, Canada), Tao Huang (Beijing University of Posts and Telecommunications, P.R. China), Jiang Liu (Beijing University of Posts and Telecommunications, P.R. China), Yunjie Liu (China Unicom, P.R. China)	3460
Iı	mplementation and Evaluation of Adaptive Video Streaming based on Markov Decision Process	
	Ayub Bokani (University of New South Wales & Nation ICT Australia (NICTA), Australia), Sayed Hoseini (University of New South Wales, Australia), Mahbub Hassan (University of New South Wales, Australia), Salil S Kanhere (The University of New South Wales, Australia)	. 3466
Mobile Wirel	less Networks (Interactive)	
D	Pemocratic Privacy: A Protocol-hidden Perturbation Scheme for Pervasive Computing	
	Shunsuke Aoki (University of Tokyo, Japan), Kaoru Sezaki (University of Tokyo, Japan)	. 3472
	Anna Wielgoszewska (Bell Labs & Nokia, Ireland), David López-Pérez (Bell Labs Alcatel- Lucent, Ireland), Holger Claussen (Bell Labs, Alcatel-Lucent, Ireland), Haris Gacanin (Nokia, Belgium)	. 3478
T	he Synergic Enhancement of Coexistence Performance in Wireless Mobile Combo-Chips	
	Daehyun Ban (Stanford University, USA), Sangsoon Lim (Software R&D Center & Samsung Electronics, Korea), Woojin Park (Software R&D Center & Samsung Electronics, Korea), Chong-kwon Kim (Seoul National University, Korea)	3484

Protocol Stack Mapping of Software Defined Protocol for Next Generation Mobile Networks	
Ruihan Wen (University of Electronic Science and Technology of China & National Key	
Laboratory of Science and Technology on Communications, P.R. China), Gang Feng	
(University of Electronic Science and Technology of China, P.R. China), Wei Tan (Huawei	
Technologies, P.R. China), Rui Ni (Huawei Technologies Co., LTD., P.R. China), Wei Cao	
(University of Electronic Science and Technology of China, P.R. China), Shuang Qin	
(University of Electronic Science and Technology of China, P.R. China)	3490
Unlocking the Smartphone's Senses for Smart City Parking	
Jean-Gabriel Krieg (University of Toulouse & ALSETT, France), Gentian Jakllari (University of	
Toulouse, France), Hadrien Toma (ALSETT, France), André-Luc Beylot (University of	2406
Toulouse, France)	. 3496
Topology control by controlling mobility for coverage in wireless sensor networks	
Fatiha Djemili Tolba (Badji Mokhtar Annaba University, Algeria), Cherif Tolba (University Badji	
Mokhtar, Algeria), Pascal Lorenz (University of Haute Alsace, France)	. 3503
Cross Layer Optimization for Routing Based on Link Layer Delay Analysis	
Hengheng Xie (Paradise Research Lab, Canada), Robson De Grande (University of Ottawa,	
Canada), Azzedine Boukerche (University of Ottawa, Canada)	3500
canada), / 1225ame Bounciene (omversity of octava) canada)	. 5565
ICC'16 NGN: IEEE ICC 2016 - Next-Generation Networking and Internet Sympos	sium
Machine-to-Machine, Device-to-Device, Machine-Type-Communications in Next Generation Interne	.+
machine-to-machine, Device-to-Device, machine-Type-Communications in Next Generation interne	FL .
A Novel Dynamic Network Architecture Model Based on Stochastic Geometry and Game Theory	
•	
Alireza Shams Shafigh (University of Oulu & CWC, Finland), Panayotis Mertikopoulos (French	
National Center for Scientific Research (CNRS) & Laboratoire d'Informatique de Grenoble,	2545
France), Savo Glisic (University of Oulu, Finland)	. 3515
Massive Machine Type Communication in Cellular System: A Distributed Queue Approach	
Fredrick M Awuor (Academia Sinica, Taiwan), Chih-Yu Wang (Academia Sinica, Taiwan)	. 3522
Random-Access Latency Optimization and Stability of Highly-Populated LTE-based M2M	
Deployments	
Olga Galinina (Tampere University of Technology, Finland), Andrey Turlikov (Saint-Petersburg	
State University of Aerospace Instrumentation, Russia), Tuomas Tirronen (Ericsson Research,	
Finland), Johan Torsner (Ericsson Research, Finland), Sergey Andreev (Tampere University of	
Technology, Finland), Yevgeni Koucheryavy (Tampere University of Technology, Finland)	3529
A Flexible M2M Radio Resource Sharing Scheme in LTE Networks within an M2M/H2H	
Coexistence Scenario	
Safa Hamdoun (University Paris-Est, France), Abderrezak Rachedi (University Paris-Est	0505
Marne-la-Vallée, France), Yacine Ghamri-Doudane (University of la Rochelle, France)	. 3535
Rate-Aware Network Codes for Completion Time Reduction in Device-to-Device	
Communications	
Mohammad S. Karim (The Australian National University, Australia), Ahmed Douik (California	
Institute of Technology, USA), Sameh Sorour (King Fahd University of Petroleum and Minerals	
(KFUPM), Saudi Arabia), Parastoo Sadeghi (The Australian National University, Australia)	3542
(-),,,,,	
Next-generation Network Management and Control	
Heat-generation Network Management and Control	
Energy Efficiency of Resource Scheduling for Non-Orthogonal Multiple Access (NOMA) Wireless	
Network	
Fang Fang (The University of British Columbia, Canada), Haijun Zhang (The University of	
British Columbia, Canada), Julian Cheng (University of British Columbia, Canada), Victor C.M.	
Loung (University of Dritish Columbia, Comeda)	2540
Leung (University of British Columbia, Canada)	. 3549

Relay Selection and Outage Analysis in Cooperative Cognitive Radio Networks with Energy Harvesting	
Jing He (Southwest University, P.R. China), Songtao Guo (Southwest University, P.R. China), Fei Wang (Southwest University, P.R. China), Yuanyuan Yang (Stony Brook University, USA)	3554
Information-agnostic Coflow Scheduling with Optimal Demotion Thresholds	
Yuanxiang Gao (University of Electronic Science and Technology of China, P.R. China), Hongfang Yu (University of Electronic Science and Technology of China, P.R. China), Shouxi Luo (University of Electronic Science and Technology of China, P.R. China), Shui Yu (Deakin University, Australia)	3560
Peak Shaving Through Optimal Energy Storage Control for Data Centers	
Mehiar Dabbagh (Oregon State University, USA), Ammar Rayes (Cisco / San Jose State University, USA), Bechir Hamdaoui (Oregon State University, USA), Mohsen Guizani (QU, USA)	3566
Deployment of 5G Networking Infrastructure with Machine Type Communication Considerations	
Xiangxiang Xu (Tsinghua University, P.R. China), Walid Saad (Virginia Tech, USA), Xiujun Zhang (Tsinghua University, P.R. China), Limin Xiao (Tsinghua University, P.R. China), Shidong Zhou (Tsinghua University, P.R. China)	3572

ICC'16 ONS: IEEE ICC 2016 - Optical Networks and Systems

Optical Network Planning and Optimization

Planning Network Migration	
Brigitte Jaumard (Concordia University, Canada), Hamed Pouya (Concordia University, Canada), Rami Fahim (CIENA, Canada), Andres Barrios (CIENA, Canada)	3578
OTN Switching in Protected Transport Networks: Spectral, Cost and Energy Efficiency Evaluation	
Jorge López Vizcaíno (Huawei Technologies Duesseldorf GmbH, Germany), Yabin Ye (Huawei Technologies Duesseldorf GmbH, Germany), Tamara Jimenez (Bapsys Consulting, Spain), Victor Lopez (Telefonica, Spain)	3584
Approaches to Maximize the Open Capacity of Elastic Optical Networks	
Karcius Assis (Federal University of Bahia, Brazil), Ali Hammad (Bristol University, United Kingdom), Raul C. Almeida, Jr (Federal University of Pernambuco, Brazil), Dimitra Simeonidou (University of Bristol, United Kingdom)	3590
Multiple Traveling Repairmen Problem with Virtual Networks for Post-Disaster Resilience	
Chen Ma (Beijing University of Posts and Telecommunications, P.R. China), Carlos Colman-Meixner (University of California, Davis, USA), Massimo Tornatore (Politecnico di Milano & University of California, Davis, Italy), Yongli Zhao (Beijing University of Posts and Telecommunications, P.R. China), Jie Zhang (Beijing University of Posts and Telecommunications, P.R. China), Biswanath Mukherjee (University of California, Davis, USA)	3596
Energy aware optimization of mobile metro-core network under predictable aggregated traffic patterns	
Rodolfo Alvizu (Politecnico di Milano, Italy), Xingyu Zhao (Politecnico di Milano, Italy), Guido Maier (Politecnico di Milano, Italy), Yajing Xu (Beijing University of Posts &	2602
Telecommunications, P.R. China), Achille Pattavina (Politecnico di Milano, Italy)	3002

ICC'16 SAC-2 CCN: IEEE ICC 2016 SAC Cloud Communications and Networking

Resource Allocation and Flow Scheduling in Data Centers

Chronos: Meeting Coflow Deadlines in Data Center Networks	
Shiyao Ma (Hong Kong University of Science and Technology, Hong Kong), Jingjie Jiang (Hong Kong University of Science and Technology, Hong Kong), Bo Li (Hong Kong University of Science and Technology, Hong Kong), Baochun Li (University of Toronto, Canada)	3609
Distributed and Dynamic Multicast Scheduling in Fat-tree Data Center Networks	
Fujie Fan (Zhejiang University, P.R. China), Bing Hu (Zhejiang University, P.R. China), Lawrence Kwan Yeung (The University of Hong Kong, Hong Kong)	3615
Decentralized Deadline-Aware Coflow Scheduling for Datacenter Networks	
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), Le Min Li (University of Electronic Science and Technology of China, P.R. China)	3621
Scheduling for response time in Hadoop MapReduce	
Xiangming Dai (The Hong Kong University of Science and Technology, Hong Kong), Brahim Bensaou (The Hong Kong University of Science and Technology, Hong Kong)	3627
Queueing Model based Analysis on Flow Scheduling in Information-agnostic Datacenter Networks	
Chao Hu (College of Command Information System, PLA University of Science and Technology, P.R. China), Bo Liu (PLA University of Science & Technology, P.R. China), Changyou Xing (PLA University of Science and Technology, P.R. China), Zhenjun Yue (College of Communications Engineering, PLA University Of Science And Technology, P.R. China), Lihua Song (PLA University of Science and Technology, P.R. China), Ming Chen (PLA University of Science and Technology, P.R. China)	3633
, , , , , , , , , , , , , , , , , , , ,	

ICC'16 SAC-5 IoT: IEEE ICC 2016 SAC Internet of Things

Crowdsensing and IoT Enabling Services

Towards Efficient Publish-Subscribe Middleware in the IoT with IPv6 Multicast Sven Akkermans (KU Leuven, iMinds-DistriNet, Belgium), Rafael Bachiller (iMinds-DistriNet, KU Leuven, Belgium), Nelson Matthys (KU Leuven & iMinds-DistriNet, Belgium), Wouter I Joosen (University of Leuven, Belgium), Mališa Vučinić (University of Grenoble, France), Danny Hughes (Katholieke Universiteit Leuven, Belgium)	3639
Data Correlation based Crowdsensing Enhancement for Environment Monitoring	
Xu Kang (Beijing University of Posts and Telecommunications, P.R. China), Liang Liu (Beijing University of Posts and Telecommunications, P.R. China), Huadong Ma (Beijing University of Posts and Telecommunications, P.R. China)	3645
OnTac: Online Task Assignment for Crowdsourcing	
Zhe Yang (Shanghai Jiao Tong University, P.R. China), Zhehui Zhang (Shanghai Jiaotong University, P.R. China), Yuting Bao (Shanghai Jiao Tong University, P.R. China), Xiaoying Gan (Shanghai Jiao Tong University, P.R. China), Xiaohua Tian (Shanghai Jiao Tong University, P.R. China), Xinbing Wang (Shanghai Jiaotong University, P.R. China)	3651
Crowdclustering Items into Overlapping Clusters	
You Wu (Shanghai Jiao Tong University, P.R. China), Xiong Wang (Shanghai Jiao Tong University, P.R. China), Zhe Yang (Shanghai Jiao Tong University, P.R. China), Xiaoying Gan (Shanghai Jiao Tong University, P.R. China), Xinbing Wang (Shanghai Jiaotong University, P.R. China)	3657
Opportunistic Smart Object Aggregation based on Clustering and Event Processing	
Fernando Terroso-Saenz (University of Murcia, Spain), José Luis Hernandez Ramos (University of Murcia, Spain), Jorge Bernal Bernabé (University of Murcia, Spain), Antonio Fernando Skarmeta Gomez (University of Murcia, Spain)	3663

ICC'16 SAC-7 SSC: IEEE ICC 2016 SAC Satellite and Space Communications

Analysis (Interactive)

	Time Cumulative Complexity Modeling and Analysis for Space-based Networks	
	Jun Du (Tsinghua University, Beijing, P.R. China), Chunxiao Jiang (Tsinghua University,	
	Beijing, P.R. China), Shui Yu (Deakin University, Australia), Yong Ren (Tsinghua University,	
	Beijing, P.R. China)	3669
	Spreading and Repetitions in Satellite MAC Protocols	
	Alessandro Biason (University of Padova, Italy), Andrea Dittadi (University of Padua, Italy),	
	Michele Zorzi (Università degli Studi di Padova, Italy)	3675
ICC'16 S	PC: IEEE ICC 2016 - Signal Processing for Communications Symposi	ıım
100 100	1 0. ILLE 100 2010 - Olgitar i Tocessing for Communications Cymposi	uiii
Cloud Rad	io Access Networks	
Oloud Muu	10 Access Networks	
	D2D Enhanced Cloud Radio Access Networks with Coordinated Multi-Point	
	Junyu Liu (Xidian University, P.R. China), Min Sheng (Xidian University, P.R. China), Tony Q.	
	S. Quek (Singapore University of Technology and Design, Singapore), Jiandong Li (Xidian University, P.R. China)	3681
	Cooperative Transmission Meets Computation Provisioning in Downlink C-RAN	5001
	Kun Guo (Xidian University, P.R. China), Min Sheng (Xidian University, P.R. China), Jianhua	
	Tang (Singapore University of Technology and Design, Singapore), Tony Q. S. Quek	
	(Singapore University of Technology and Design, Singapore), Xijun Wang (Xidian University,	
	P.R. China), Zhiliang Qiu (State key lab of ISN, P.R. China)	3687
	Fronthaul Compression and Optimization for Cloud Radio Access Networks	
	Thang Xuan Vu (Singapore University of Technology and Design, Singapore), Hieu Duy Nguyen (Institute for Infocomm Research (I2R), The Agency for Science, Technology and	
	Research (ASTAR), Singapore), Tony Q. S. Quek (Singapore University of Technology and	
	Design, Singapore), Sumei Sun (Institute for Infocomm Research, Singapore)	3693
	Coordination and Antenna Domain Formation in Cloud-RAN systems	
	Hadi Ghauch (Royal Institute of Technology (KTH), Sweden), Muhammad Mahboob Ur	
	Rahman (KTH, Sweden), Sahar Imtiaz (KTH Royal Institute of Technology, Sweden), James	2.00
	Gross (KTH Royal Institute of Technology, Sweden)	3699
	Space-Time Fronthaul Compression of Complex Baseband Uplink LTE Signals	
	Jinseok Choi (The University of Texas at Austin, USA), Brian L Evans (The University of Texas at Austin, USA), Alan Gatherer (Huawei Technologies, USA)	3706
	at Austin, OSA), Alan Gatherer (Huawer Technologies, OSA)	3700
Distributed	d Signal Processing	
	Distributed Energy Efficiency Fairness Optimization by ADMM in Multicell MISO Downlink	
	Kien-Giang Nguyen (University of Oulu, Finland), Le-Nam Tran (Maynooth University,	
	Ireland), Quang-Doanh Vu (University of Oulu, Finland), Markku Juntti (University of Oulu, Finland)	3712
	Robust Chance-Constrained Distributed Beamforming for Multicell Interference Networks	
	Xinruo Zhang (King's College London, United Kingdom), Mohammad Reza Nakhai (King's	
	College London, United Kingdom)	3718
	Multi-Layer Distributed Bayesian Compressive Sensing Based Blind Carrier-Frequency Offset Estimation in Uplink OFDMA Systems	
	Jinnian Zhang (Beijing University of Posts and Telecommunications, P.R. China), Kai Niu	
	(Beijing University of Posts and Telecommunications, P.R. China), Zhiqiang He (Beijing	
	University of Posts and Telecommunications, P.R. China)	3724

On Weighting/Reweighting Schemes for Approximate Message Passing Algorithms Zeinab Zeinalkhani (Carleton University, Canada), Neda Haghighatpanah (Carleton University, Canada), Amir Banihashemi (Carleton University, Canada)	3729
A Pipelined Synchronization Approach for Satellite-based Automatic Identification System	3723
Weitao Lan (Shanghai Jiao Tong University, P.R. China), Taosheng Zhang (Shanghai Jiao Tong University, P.R. China), Moran Guo (Shanghai Jiao Tong University, P.R. China) Huang (Shanghai Jiao Tong University, P.R. China), Lianghui Ding (Shanghai Jiao Tong University, P.R. China), Feng Yang (Shanghai Jiaotong University, P.R. China), Liang Qian (Shanghai Jiao Tong University, P.R. China)	3734
ICC'16 WCS: IEEE ICC 2016 - Wireless Communications Symposium Modulation and Coding	
Jointly Optimized Quadrature Amplitude Modulation	
Sung-Joon Park (Gangneung-Wonju National University, Korea)	3740
A Tractable Analytical Framework for Evaluating Opportunistic Selection in Time-Varying Channels	
Rupesh K. Kona (Indian Institute of Science, India), Neelesh B. Mehta (Indian Institute of	2745
Science, India), Jobin Francis (Indian Institute of Science, India) Media-Based MIMO: Outperforming Known Limits in Wireless	3/43
Ehsan Seifi (University of Waterloo, Canada), Mehran Atamanesh (University of Waterloo,	
Canada), Amir K. Khandani (University of Waterloo, Canada)	3751
Enhanced Spatial Multiplexing - A Novel Approach to MIMO Signal Design	
Chien-Chun Cheng (National Chiao Tung University, Taiwan), Hikmet Sari (École Supérieure d'Électricité (SUPELEC), France), Serdar Sezginer (Sequans, France), Yu T. Su (National Chiao Tung University, Taiwan)	3758
Data Rate Maximization for Terahertz Communication Systems using Finite Alphabets	
Anamaria Moldovan (University of Erlangen-Nürnberg, Germany), Steven Kisseleff (Friedrich-Alexander-University Erlangen-Nürnberg (FAU), Germany), Ian F. Akyildiz (Georgia Institute of Technology, USA), Wolfgang Gerstacker (University of Erlangen-Nuernberg, Germany)	3764
Millimeter Wave and Terahertz Communications I	
Measurement-based Massive MIMO Channel Modeling in 13-17GHz for Indoor Hall Scenarios	
Jiajing Chen (Tongji University, P.R. China), Xuefeng Yin (Tongji University, P.R. China), Stephen Lingfeng Wang (Toshiba Research Europe Limited, United Kingdom)	3771
32-Gbit/s 60-GHz Millimeter-Wave Wireless Communication using Orbital Angular Momentum and Polarization Multiplexing	
Yan Yan (University of Southern California, USA), Long Li (University of Southern California, USA), Zhe Zhao (University of Southern California, USA), Guodong Xie (University of Southern California, USA), Zhe Wang (University of Southern California, USA), Yongxiong Ren (University of Southern California, USA), Nisar Ahmed (University of Southern California, USA), Soji Sajuyigbe (Intel Labs, Intel Corporation, USA), Shilpa Talwar (Intel, USA), Moshe Tur (Tel Aviv University, Israel), Nima Ashrafi (University of Texas at Dallas & NxGen Partners, USA), Solyman Ashrafi (NxGen Partners, USA), Andreas Molisch (University of Southern California, USA), Alan Willner (University of Southern California, USA)	3776
Performance Analysis of Hybrid 5G Cellular Networks Exploiting mmWave Capabilities in Suburban Areas	
Muhammad Shahmeer Omar (National University of Sciences and Technology, Pakistan), Muhammad Ali Anjum (National University of Sciences and Technology, Pakistan), Syed Ali Hassan (National University of Sciences and Technology, Pakistan), Haris Bin Pervaiz (Lancaster University, United Kingdom), Qiang Ni (Lancaster University, United Kingdom)	3782

Location Based Performance Model for Indoor MmWave Wearable Communication	
Kiran Venugopal (The University of Texas at Austin & Wireless Networking and	
Communications Group, USA), Robert Heath (The University of Texas at Austin, USA)	3788
Wideband THz Communication Channel Measurements for 5G Indoor Wireless Networks	
Nabil Khalid (Koc University, Turkey), Ozgur B. Akan (Koc University, Turkey)	3794
Device to Device Communications II	
D2D Communication Underlay in Uplink Cellular Networks with Distance Based Power Control	
Zekun Zhang (Utah State University, USA), Rose Qingyang Hu (Utah State University, USA), Yi Qian (University of Nebraska-Lincoln, USA)	3800
Pareto-Efficient Cross-Layer Repeated Game for Device-to-Device (D2D) Communications	
Nicole Sawyer (National ICT Australia (NICTA) & Australian National University, Australia), David B Smith (National ICT Australia, Australia)	3806
QoS-Aware Joint Mode Selection and Channel Assignment for D2D Communications	
Rui Wang (The 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)	3812
Caching Incentive Design in Wireless D2D Networks: A Stackelberg Game Approach	
Zhuoqun Chen (Shanghai Jiao Tong University, P.R. China), Yangyang Liu (Shanghai Jiao Tong University, P.R. China), Bo Zhou (Shanghai Jiao Tong University, P.R. China), Meixia Tao (Shanghai Jiao Tong University, P.R. China)	3818
5G Waveforms for Overlay D2D Communications: Effects of Time-Frequency Misalignment	
Quentin Bodinier (CentraleSupélec/IETR, France), Arman Farhang (CONNECT, Trinity College Dublin, Ireland), Faouzi Bader (CentraleSupélec, France), Hamed Ahmadi (University College Dublin, Ireland), Jacques Palicot (CentraleSupélec/IETR, France), Luiz DaSilva (Trinity College & Trinity College Dublin, Ireland)	
Physical-layer Based Network Issues (Interactive)	
Joint Probabilistic Scheduling and Adaptive Modulation for Queue and Channel Aware Links Xiang Chen (Tsinghua University, P.R. China), Wei Chen (Tsinghua University, P.R. China)	3831
Beamforming Design for Secure Downlink Transmission of MU-MIMO systems with Multi- Antenna Eavesdropper	
Ronghong Mo (Institute for Infocomm Research, Singapore), Chau Yuen (Singapore University of Technology and Design, Singapore), Jun Zhang (Nanjing University of Posts and Telecommunications, P.R. China), Xiaoming Chen (Nanjing University of Aeronautics and Astronautics, P.R. China)	3837
Cache Size Allocation in Backhaul Limited Wireless Networks	
Xi Peng (The 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)	3843
Secure Multiple-Users Transmission Using Multi-Path Directional Modulation	23.3
Mohammed A. Hafez (University of South Florida, USA), Tamer Khattab (Qatar University, Qatar), Tarek M. Elfouly (Qatar University, Qatar), Huseyin Arslan (University of South Florida, USA)	3849
Polar Codes for Noncoherent MIMO Signalling	
Philip R Balogun (Carleton University, Canada), Ian D. Marsland (Carleton University, Canada), Ramy Gohary (Carleton University, Canada), Halim Yanikomeroglu (Carleton University, Canada)	30E1
oniversity, canada,	5057

ICC'16 AHSN: IEEE ICC 2016 Ad-hoc and Sensor Networking Symposium

Routing

Simulation Study of Routing Attacks Under Network Coding Environment	
Ruo Jun Cai (Nanyang Technological University, Singapore), G. G. Md. Nawaz Ali (Nanyang Technological University, Singapore), Cherry Ye Aung (Nanyang Technological University, Singapore), Ming Zhao (Nanyang Technological University, Singapore), Peter Han Joo Chong (Auckland University of Technology, New Zealand)	3866
Comparing inter-domain routing protocol assessment tools for MANET	0000
Florian Grandhomme (University of Rennes 1 - IRISA Laboratory, France), Gilles Guette (IRISA, France), Adlen Ksentini (Eurecom, France), Thierry Plesse (DGA MI, France)	3872
Cooperative Rotational Sweep Schemes for Geographic Routing	
Jung-Tsung Tsai (National Taiwan Normal University, Taiwan), Yunghsiang Sam Han (National Taiwan University of Science and Technology, Taiwan)	3878
Multipath Routing Approach to Enhance Resiliency and Scalability in Ad-hoc Networks	
Alexandros Ladas (Kingston University, United Kingdom), Nikolaos Pavlatos (Kingston University London, United Kingdom), Nuwan S Weerasinghe (Kingston University & iScienta Limited, United Kingdom), Christos Politis (Kingston University, United Kingdom)	3885
A Low Energy Consumption Routing Protocol for Mobile Sensor Networks with a Path- Constrained Mobile Sink	3003
M Taufiq Nuruzzaman (National Taiwan University of Science and Technology & Sunan Kalijaga State Islamic University, Taiwan), Huei-Wen Ferng (National Taiwan University of Science and Technology, Taiwan)	3891
Wireless network Applications if (interactive)	
Wireless Network Applications II (Interactive) Constructing a Reliable and Fast Recoverable Network for Drones Jiyeon Lee (Korea University, Korea), Kangho Kim (Korea University, Korea), Joon Yeon Lee (Korea University), Korea University, Kore	
Constructing a Reliable and Fast Recoverable Network for Drones	3897
Constructing a Reliable and Fast Recoverable Network for Drones Jiyeon Lee (Korea University, Korea), Kangho Kim (Korea University, Korea), Seungho Yoo (Korea University, Korea), Albert Chung (Korea University, Korea), Joon Yeop Lee (Korea University, Korea), Seongjoon Park (Korea University, Korea), Hwangnam Kim (Korea University, Korea) Protocol Options for Low Power Sensor Network MAC using Wake-up Receivers with Duty Cycling	3897
Constructing a Reliable and Fast Recoverable Network for Drones Jiyeon Lee (Korea University, Korea), Kangho Kim (Korea University, Korea), Seungho Yoo (Korea University, Korea), Albert Chung (Korea University, Korea), Joon Yeop Lee (Korea University, Korea), Seongjoon Park (Korea University, Korea), Hwangnam Kim (Korea University, Korea) Protocol Options for Low Power Sensor Network MAC using Wake-up Receivers with Duty Cycling Johannes Blobel (University of Paderborn, Germany), Christoph Sommer (Paderborn University, Germany), Falko Dressler (University of Paderborn, Germany)	
Constructing a Reliable and Fast Recoverable Network for Drones Jiyeon Lee (Korea University, Korea), Kangho Kim (Korea University, Korea), Seungho Yoo (Korea University, Korea), Albert Chung (Korea University, Korea), Joon Yeop Lee (Korea University, Korea), Seongjoon Park (Korea University, Korea), Hwangnam Kim (Korea University, Korea) Protocol Options for Low Power Sensor Network MAC using Wake-up Receivers with Duty Cycling Johannes Blobel (University of Paderborn, Germany), Christoph Sommer (Paderborn University, Germany), Falko Dressler (University of Paderborn, Germany) Communication Analysis of Real Vehicular Calibrated Traces Felipe Cunha (Federal University of Minas Gerais, Brazil), Fabrício Aguiar Silva (Federal University of Minas Gerais, Brazil), Guilherme Maia (Federal University of Minas Gerais, Brazil), Linnyer Beatrys Ruiz (State University of Maringá & INCT NAMITEC, Brazil), Rossana Maria de Castro Andrade (Federal University of Ceará, Brazil), Raquel A. F. Mini (PUC Minas, Brazil), Azzedine Boukerche (University of Ottawa, Canada), Antonio A.F. Loureiro (Federal University of Minas Gerais,	3903
Constructing a Reliable and Fast Recoverable Network for Drones Jiyeon Lee (Korea University, Korea), Kangho Kim (Korea University, Korea), Seungho Yoo (Korea University, Korea), Albert Chung (Korea University, Korea), Joon Yeop Lee (Korea University, Korea), Seongjoon Park (Korea University, Korea), Hwangnam Kim (Korea University, Korea) Protocol Options for Low Power Sensor Network MAC using Wake-up Receivers with Duty Cycling Johannes Blobel (University of Paderborn, Germany), Christoph Sommer (Paderborn University, Germany), Falko Dressler (University of Paderborn, Germany) Communication Analysis of Real Vehicular Calibrated Traces Felipe Cunha (Federal University of Minas Gerais, Brazil), Fabrício Aguiar Silva (Federal University of Minas Gerais, Brazil), Guilherme Maia (Federal University of Minas Gerais, Brazil), Linnyer Beatrys Ruiz (State University of Maringá & INCT NAMITEC, Brazil), Rossana Maria de Castro Andrade (Federal University of Ceará, Brazil), Raquel A. F. Mini (PUC Minas, Brazil), Azzedine Boukerche	3903
Constructing a Reliable and Fast Recoverable Network for Drones Jiyeon Lee (Korea University, Korea), Kangho Kim (Korea University, Korea), Seungho Yoo (Korea University, Korea), Albert Chung (Korea University, Korea), Joon Yeop Lee (Korea University, Korea), Seongjoon Park (Korea University, Korea), Hwangnam Kim (Korea University, Korea) Protocol Options for Low Power Sensor Network MAC using Wake-up Receivers with Duty Cycling Johannes Blobel (University of Paderborn, Germany), Christoph Sommer (Paderborn University, Germany), Falko Dressler (University of Paderborn, Germany) Communication Analysis of Real Vehicular Calibrated Traces Felipe Cunha (Federal University of Minas Gerais, Brazil), Fabrício Aguiar Silva (Federal University of Minas Gerais, Brazil), Guilherme Maia (Federal University of Minas Gerais, Brazil), Linnyer Beatrys Ruiz (State University of Maringá & INCT NAMITEC, Brazil), Rossana Maria de Castro Andrade (Federal University of Ceará, Brazil), Raquel A. F. Mini (PUC Minas, Brazil), Azzedine Boukerche (University of Ottawa, Canada), Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil)	3903

	Based on the Shapley Value	
	Mahdi Mousavi (TU Darmstadt, Germany), Sabrina Müller (Technische Universität Darmstadt, Germany), Hussein Al-Shatri (TU Darmstadt, Germany), Bernd Freisleben (Philipps-Universität Marburg, Germany), Anja Klein (TU Darmstadt, Germany)	3021
	History-Based Multi-Node Collaborative Localization in Mobile Wireless Ad Hoc Networks	၂၅८1
	Wenyuan Chen (College of Electronic and Information Engineering, Southwest University, P.R. China), Songtao Guo (Southwest University, P.R. China), Yan Wu (Southwest University, P.R. China), Yuanyuan Yang (Stony Brook University, USA)	3927
	Similarly rading data range (Story Brook Similarishty) Sorily	3327
CC'16	CISS: IEEE ICC 2016 Communication and Information Systems Security	<i>'</i>
Sympos	sium	
Cloud Se	curity	
	Efficient Privacy-Preserving Circular Range Search on Outsourced Spatial Data	
	Hao Ren (University of Electronic Science and Technology of China, P.R. China), Hongwei Li (University of Electronic Science and Technology of China, P.R. China), Hao Chen (University of Electronic Science and Technology of China, P.R. China), Michael Kpiebaareh (University of Electronic Science and Technology of China, P.R. China), Lian Zhao (Ryerson University,	
	Canada)	3933
	PSS: Achieving High-efficiency and Privacy-preserving Similarity Search in Multiple Clouds	
	Jinguo Li (Shanghai University of Electric Power, P.R. China), Mi Wen (Shanghai University of	
	Electric Power, P.R. China), Chunhua Gu (East China University of Science and Technology, P.R. China), Hongwei Li (University of Electronic Science and Technology of China, P.R. China)	3940
	Secure Outsourcing of Scalar Multiplication on Elliptic Curves	
	Kai Zhou (MSU, USA), Jian Ren (Michigan State University, USA)	. 3946
	Structured Queries with Generalized Pattern Matching on Encrypted Cloud Data	
	Nan Jia (National University of Defense Technology & College of Computer, P.R. China),	
	Xiaohua Jia (City University of Hong Kong, Hong Kong), Dongsheng Wang (National	
	University of Defense Technology, P.R. China), Shaojing Fu (National University of Defense Technology, P.R. China), Ming Xu (National University of Defense Technology, P.R. China)	3951
	Attribute-Based Encryption Scheme Based on SIFF	3331
	Tianyu Zhao (University of Science and Technology of China, P.R. China), Lingbo Wei	
	(University of Science and Technology of China, P.R. China), Chi Zhang (University of Science and Technology of China, P.R. China)	3958
00146	CORM. IEEE ICC 2016. Communication Oos, Bolishility and Madeling	
	CQRM: IEEE ICC 2016 - Communication QoS, Reliability and Modeling	
Sympo	Sium	
Resource	Allocation I	
	Joint Prioritized Link Schoduling and Persuas Allegation for OSDMA hand Windows Natural	
	Joint Prioritized Link Scheduling and Resource Allocation for OFDMA-based Wireless Networks Tuong Duc Hoang (University of Quebec, Canada), Long Bao Le (INRS, University of Quebec, Canada), Tho Le-Ngoc (McGill University, Canada)	3964
	Joint Optimization for Social Content Delivery in Wireless Networks	5501
	Xiangnan Weng (University of Maryland, USA), John Baras (University of Maryland, College Park, USA)	3970

Multi-Hop Data Dissemination with Selfish Nodes: Optimal Decision and Fair Cost Allocation

Caching strategies in Heterogeneous Networks with D2D, small BS and macro BS communications	
Irene Pappalardo (University of Padova, Italy), Giorgio Quer (University of California San Diego, USA), Bhaskar Rao (University of California, San Diego, USA), Michele Zorzi (University of Padova, Italy)	977
On Optimal Link Scheduling with Min-Max Peak Age of Information in Wireless Systems	
Qing He (Linköping University, Sweden), Di Yuan (Linköping University, Sweden), Anthony Ephremides (University of Maryland at College Park, USA)	983
Statistical QoS Analysis of Full Duplex and Half Duplex Heterogeneous Cellular Networks Alireza Sadeghi (University of Minnesota, USA), Michele Luvisotto (University of Padova, Italy), Farshad Lahouti (Caltech Institute of Techlonogy, USA), Stefano Vitturi (CNR, Italy), Michele Zorzi (University of Padova, Italy)	990
ICC'16 CRN: IEEE ICC 2016 - Cognitive Radio and Networks Symposium Privacy and Security	
Secrecy Rate Maximization in a Cognitive Radio Network with Artificial Noise Aided for MISO Multi-Eves	
Dinh Van Nguyen (Soongsil University, Korea), Trung Q. Duong (Queen's University Belfast, United Kingdom), Octavia A. Dobre (Memorial University, Canada), Oh-Soon Shin (Soongsil University, Korea)	996
Using Game Theory to Battle Jammer in Control Channels of Cognitive Radio Ad hoc Networks	,,,
Jawad Salehi (Sharif University of Technology, Iran), MohammadReza Oskoui (Sharif University of Technology, Iran), Pirazh Khorramshahi (Sharif University of Technology, Iran)	002
of Science and Technology, USA), Meixia Tao (Shanghai Jiao Tong University, P.R. China), Wen Chen (Shanghai Jiao Tong University, P.R. China)	007
A Virtual MIMO based Anti-Jamming Strategy for Cognitive Radio Networks	
Lei Li (University of Massachusetts Lowell, USA), Chunxiao (Tricia) Chigan (University of Massachusetts Lowell, USA)	013
Protecting Cognitive Radio Networks Against Poisson Distributed Eavesdroppers	
Yueming Cai (Institute of Communications Engineering, PLAUST, P.R. China), Xiaoming Xu (College of Communications Engineering, PLAUST, P.R. China), Biao He (Hong Kong University of Science and Technology, Hong Kong), Weiwei Yang (Institute of	
Communications Engineering, PLAUST, P.R. China), Xiangyun Zhou (The Australian National University, Australia)	019
ICC'16 CSSMA: IEEE ICC 2016 - Communications Software, Services and Multimedia Applications Symposium Mobile Network Services	
A QoE Indicator and a Transmission Control Method for VoIP on Mobile Networks Considering	
Delay Spikes	
Koichi Nihei (NEC Corporation, Japan), Kozo Satoda (NEC Corporation, Japan), Hiroshi Yoshida (NEC Corporation, Japan)	026
Traffic Scheduling and Power Allocations for Mobile Data Offloading via Dual-Connectivity	
Yuan Wu (Zhejiang University of Technology, P.R. China), Yanfei He (Zhejiang University of Technology, P.R. China), Liping Qian (Zhejiang University of Technology, P.R. China), Sherman Shen (University of Waterloo, Canada)	032

Fel Sun (Shanghai Jiao Tong University, P.R. China), Bo Liu (Deakin University, Australia), Fen Hou (University of Macau, Macao), Albio Zhova (University of Waterloo, Canada), Gui Lin (Shanghai Jiao Tong University, P.R. China), Jiacheng Chen (Zhejiang University, P.R. China), Jiacheng Chen (Zhejiang University, P.R. China), Zinjuo Shi (Zhejiang University, P.R. China), Shinbo He (Zhejiang University, P.R. China), Zinjuo Shi (Zhejiang), Yusheng Ji (National Institute of Informatics, Japan), Yoshiaki Tanaka (Waseda University, Japan), Yusheng Ji (National Institute of Informatics, Japan), Yoshiaki Tanaka (Waseda University, Japan), Yusheng Ji (National Institute of Informatics, Japan), Yoshiaki Tanaka (Waseda University, Japan), Yusheng Ji (National Institute of Informatics, Japan), Yoshiaki Tanaka (Waseda University, Japan), Yusheng Ji (National Institute of Informatics, Japan), Yoshiaki Tanaka (Waseda University, Japan), Yusheng Ji (National Institute of Informatics, Japan), Yoshiaki Tanaka (Waseda University, Japan), Yusheng Ji (National Institute of Informatics, Japan), Yoshiaki Tanaka (Waseda University, Japan), Yusheng Ji (National Institute of Informatics, Japan), Yoshiaki Tanaka (Waseda University, Japan), Yusheng Ji (National Institute of Informatics, Japan), Yoshiaki Tanaka (Waseda University (Singhapora), Yashiaki Tanaka (Yashiaki Yashiaki	Cournot Equilibrium in the Mobile Virtual Network Operator Oriented Oligopoly Offloading Market	
Optimizing the Throughput of Millimeter Wave Wireless Communications Chao Li (Zhejiang University, P.R. China), Shibo He (Zhejiang University, P.R. China), Zhiguo Shi (Zhejiang University, P.R. China), Jiming Chen (Zhejiang University, P.R. China), 24044 Device-to-device Assisted Video Frame Recovery for Picocell Edge Users in Heterogeneous Networks Zhi Liu (Waseda University, Japan), Mianxiong Dong (Muroran Institute of Technology, Japan), Hao Zhou (University of Science and Technology of China, P.R. China), Xiaoyan Wang (Ibaraki University, Japan), Yusheng Ji (National Institute of Informatics, Japan), Yoshlaki Tanaka (Waseda University, Japan) Energy Efficiency-Rate Multiobjective Game: Tradeoffs, Scalarisation Techniques and Distributed Implementation Ivan Stupia (Université Catholique de Louvain, Belgium), Luc Vandendorpe (Université catholique de Louvain, Belgium) Universally Near-Optimal Online Power Control for Energy Harvesting Nodes Dor Shaviv (Stanford University, USA), Ayfer Ozgür (Stanford University, USA) Joint Power and Rate Optimization for Co-Channel Small Cells Using Frank-Wolfe Algorithm Haining Wang (University of California, Davis, USA), Zhi Ding (University of California at Davis, USA) Delay Minimal Policies in Energy Harvesting Broadcast Channels Minghan Fu (Tsinghua University, P.R. China), Ahmed Arafa (University of Maryland College Park, USA), Sennur Ulukus (University of Maryland, USA), Wei Chen (Tsinghua University, P.R. China) Dibin Francis (Indian Institute of Science, India), Neelesh B. Mehta (Indian Institute of Science, India) ICC'16 GCSN: IEEE ICC 2016 - Green Communications Systems and Networks Energy Harvesting 2 Joint Admission Control and Content Caching Policy for Energy Harvesting Access Points Dusit Niyato (Nanyang Technological University, Singapore), Dong In Kim (Sungkyunkwan University (SKKU), Korea), Ping Wang (Nanyang Technological University, Singapore), Mehdi Bennis (Centre of Wireless Communications, University of Mehdi Bennis (Centre of Wireless Communic	Fei Sun (Shanghai Jiao Tong University, P.R. China), Bo Liu (Deakin University, Australia), Fen Hou (University of Macau, Macao), Haibo Zhou (University of Waterloo, Canada), Gui Lin (ShangHai JiaoTong University, P.R. China), Jiacheng Chen (Shanghai Jiao Tong University,	4038
Shi (Zhejiang University, P.R. China), Jiming Chen (Zhejiang University, P.R. China) — 4044 Device-to-device Assisted Video Frame Recovery for Piccoell Edge Users in Heterogenous Networks Zhi Liu (Waseda University, Japan), Mianxiong Dong (Muroran Institute of Technology, Japan), Hao Zhou (University of Science and Technology of China, P.R. China), Xiaoyan Wang (Ibaraki University, Japan), Yusheng Ji (National Institute of Informatics, Japan), Yoshiaki Tanaka (Waseda University, Japan), Yusheng Ji (National Institute of Informatics, Japan), Yoshiaki Tanaka (Waseda University, Japan) — 4050 ICC'16 CT: IEEE ICC 2016 - Communications Theory RRM Energy Efficiency-Rate Multiobjective Game: Tradeoffs, Scalarisation Techniques and Distributed Implementation Ivan Stupia (Université Catholique de Louvain, Belgium), Luc Vandendorpe (Université catholique de Louvain, Belgium), Luc Vandendorpe (Université catholique de Louvain, Belgium), Modes Dor Shaviv (Stanford University, USA), Ayfer Özgür (Stanford University, USA) — 4062 Joint Power and Rate Optimization for Co-Channel Small Cells Using Frank-Wolfe Algorithm Halining Wang (University of California, Davis, USA), Zhi Ding (University of California at Davis, USA) Delay Minimal Policies in Energy Harvesting Broadcast Channels Minghan Fu (Tsinghua University, P.R. China), Ahmed Arafa (University of Maryland College Park, USA), Sennur Ulukus (University of Maryland, USA), Wel Chen (Tsinghua University, P.R. China) Jobin Francis (Indian Institute of Science, India), Neelesh B. Mehta (Indian Institute of Science, India) ICC'16 GCSN: IEEE ICC 2016 - Green Communications Systems and Networks Energy Harvesting 2 Joint Admission Control and Content Caching Policy for Energy Harvesting Access Points Dusti Niyato (Nanyang Technological University, Singapore), Mehdi Bennis (Centre of Wireless Communications, University of University, Singapore), Mehdi Bennis (Centre of Wireless Communications, University of University of Science and Technologie (KAUST), Saudi Arabia)		
Networks Zhi Liu (Waseda University, Japan), Mianxiong Dong (Muroran Institute of Technology, Japan), Hao Zhou (University of Science and Technology of China, P.R. China), Xlaoyan Wang (Ibaraki University, Japan), Yusheng Ji (National Institute of Informatics, Japan), Yoshiaki Tanaka (Waseda University, Japan), Yoshiaki Tanaka (Waseda University, Japan), Yoshiaki Tanaka (Waseda University, Japan) ICC'16 CT: IEEE ICC 2016 - Communications Theory RRM Energy Efficiency-Rate Multiobjective Game: Tradeoffs, Scalarisation Techniques and Distributed Implementation Ivan Stupia (Université Catholique de Louvain, Belgium), Luc Vandendorpe (Université Nuiversity Nana Pare Vandendorpe (University University Nana Pare Vandendorpe (University University Nana Pare Vandendorpe (University University Of Scalaford University of Lalifornia August (University of California, Davis, USA), Zhi Ding (University of California at Davis, USA) Delay Minimal Policies in Energy Harvesting Broadcast Channels Minghan Fu Cisinghue University, P.R. China), Ahmed Arafa (University of Maryland College Park, USA), Sennur Ulukus (University of Maryland, USA), Wei Chen (Tsinghua University, P.R. China) Throughput-Optimal Rate Adaptation for Best-M Feedback in OFDM Systems Jobin Francis (Indian Institute of Science, India), Neelesh B. Mehta (Indian Institute of Science, India) ICC'16 GCSN: IEEE ICC 2016 - Green Communications Systems and Networks Energy Harvesting 2 Joint Admission Control and Content Caching Policy for Energy Harvesting Access Points Dusit Niyat	Shi (Zhejiang University, P.R. China), Jiming Chen (Zhejiang University, P.R. China)	4044
Japan), Hao Zhou (University, Japan) Vasheng Ji (National Institute of Informatics, Japan), Yoshiaki Tanaka (Waseda University, Japan) 4050	Networks	
RRM Energy Efficiency-Rate Multiobjective Game: Tradeoffs, Scalarisation Techniques and Distributed Implementation Ivan Stupia (Université Catholique de Louvain, Belgium), Luc Vandendorpe (University, Despois de Catholique), Luc Vandendorpe (University, Despois de Catholique), Luc Vandendorpe (University, USA), Dia Vandendorpe (University of Vandendorpe), USA), Senara Marie (University of California at Davis, USA), Delay Minimal Policies in Energy Harvesting Broadcast Channels Minghan Fu (Tsinghua University, P.R. China), Ahmed Arafa (University of Maryland College Park, USA), Sennur Ulukus (University of Maryland, USA), Wei Chen (Tsinghua University, P.R. China) Throughput-Optimal Rate Adaptation for Best-M Feedback in OFDM Systems Jobin Francis (Indian Institute of Science, India), Neelesh B. Mehta (Indian Institute of Science, India) 10 Joint Admission Control and Content Caching Policy for Energy Harvesting Access Points Dusit Niyato (Nanyang Technological University, Singapore), Dong In Kim (Sungkyunkwan University (SKKU), Korea), Ping Wang (Nanyang Technological University, Singapore), Mehdi Bennis (Centre of Wireless Communications, University, Singapore), Dong In Kim (Sungkyunkwan University of Wireless Communications, University of Oulu, Finland) 4086 Performance Limits of Energy Harvesting Communications under Imperfect Channel State Information Mohamed Ridha Zenaidi (KAUST), Saudi Arabia), Hamidou Tembine (New York University of Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (New York University	Japan), Hao Zhou (University of Science and Technology of China, P.R. China), Xiaoyan Wang (Ibaraki University, Japan), Yusheng Ji (National Institute of Informatics, Japan), Yoshiaki	4050
Distributed Implementation Ivan Stupia (Université Catholique de Louvain, Belgium), Luc Vandendorpe (Université catholique de Louvain, Belgium) 4056 Universally Near-Optimal Online Power Control for Energy Harvesting Nodes Dor Shaviv (Stanford University, USA), Ayfer Özgür (Stanford University, USA) Joint Power and Rate Optimization for Co-Channel Small Cells Using Frank-Wolfe Algorithm Haining Wang (University of California, Davis, USA), Zhi Ding (University of California at Davis, USA) Delay Minimal Policies in Energy Harvesting Broadcast Channels Minghan Fu (Tsinghua University, P.R. China), Ahmed Arafa (University of Maryland College Park, USA), Sennur Ulukus (University of Maryland, USA), Wei Chen (Tsinghua University, P.R. China) Throughput-Optimal Rate Adaptation for Best-M Feedback in OFDM Systems Jobin Francis (Indian Institute of Science, India), Neelesh B. Mehta (Indian Institute of Science, India) ICC'16 GCSN: IEEE ICC 2016 - Green Communications Systems and Networks Energy Harvesting 2 Joint Admission Control and Content Caching Policy for Energy Harvesting Access Points Dusit Niyato (Nanyang Technological University, Singapore), Dong In Kim (Sungkyunkwan University (SKKU), Korea), Ping Wang (Nanyang Technological University, Singapore), Mehdi Bennis (Centre of Wireless Communications, University of Oulu, Finland) 4086 Performance Limits of Energy Harvesting Communications under Imperfect Channel State Information Mohamed Ridha Zenaidi (KAUST, Saudi Arabia), Zouheir Rezki (King Abdullah University of Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (Warverst University & Learning and Game Theory Lab, USA), Mohamed-Silm Alouini (King Abdullah University of		
Ivan Stupia (Université Catholique de Louvain, Belgium), Luc Vandendorpe (Université catholique de Louvain, Belgium) 4056 Universally Near-Optimal Online Power Control for Energy Harvesting Nodes Dor Shaviv (Stanford University, USA), Ayfer Özgür (Stanford University, USA) 4062 Joint Power and Rate Optimization for Co-Channel Small Cells Using Frank-Wolfe Algorithm Haining Wang (University of California, Davis, USA), Zhi Ding (University of California at Davis, USA) Delay Minimal Policies in Energy Harvesting Broadcast Channels Minghan Fu (Tsinghua University, P.R. China), Ahmed Arafa (University of Maryland College Park, USA), Sennur Ulukus (University of Maryland, USA), Wei Chen (Tsinghua University, P.R. China) Throughput-Optimal Rate Adaptation for Best-M Feedback in OFDM Systems Jobin Francis (Indian Institute of Science, India), Neelesh B. Mehta (Indian Institute of Science, India) ICC'16 GCSN: IEEE ICC 2016 - Green Communications Systems and Networks Energy Harvesting 2 Joint Admission Control and Content Caching Policy for Energy Harvesting Access Points Dusit Niyato (Nanyang Technological University, Singapore), Dong In Kim (Sungkyunkwan University (SKKU), Korea), Ping Wang (Nanyang Technological University, Singapore), Mehdi Bennis (Centre of Wireless Communications, University of Oulu, Finland) Performance Limits of Energy Harvesting Communications under Imperfect Channel State Information Mohamed Ridha Zenaidi (KAUST, Saudi Arabia), Zouheir Rezki (King Abdullah University of Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (New York University of Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (New York University of Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (New York University of Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (New York University of		
Universally Near-Optimal Online Power Control for Energy Harvesting Nodes Dor Shaviv (Stanford University, USA), Ayfer Özgür (Stanford University, USA) 4062 Joint Power and Rate Optimization for Co-Channel Small Cells Using Frank-Wolfe Algorithm Haining Wang (University of California, Davis, USA), Zhi Ding (University of California at Davis, USA) 4068 Delay Minimal Policies in Energy Harvesting Broadcast Channels Minghan Fu (Tsinghua University, P.R. China), Ahmed Arafa (University of Maryland College Park, USA), Sennur Ulukus (University of Maryland, USA), Wei Chen (Tsinghua University, P.R. China) 4074 Throughput-Optimal Rate Adaptation for Best-M Feedback in OFDM Systems Jobin Francis (Indian Institute of Science, India), Neelesh B. Mehta (Indian Institute of Science, India) 4080 ICC'16 GCSN: IEEE ICC 2016 - Green Communications Systems and Networks Energy Harvesting 2 Joint Admission Control and Content Caching Policy for Energy Harvesting Access Points Dusit Niyato (Nanyang Technological University, Singapore), Dong In Kim (Sungkyunkwan University (SKKU), Korea), Ping Wang (Nanyang Technological University, Singapore), Mehdi Bennis (Centre of Wireless Communications, University of Oulu, Finland) 4086 Performance Limits of Energy Harvesting Communications under Imperfect Channel State Information Mohamed Ridha Zenaidi (KAUST, Saudi Arabia), Zouheir Rezki (King Abdullah University of Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (New York University of Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (New York University of Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (New York University of Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (New York University of Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (New York University of Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (New York University of Science and Technologie (KAUST), Mohamed-Silm Alouini (King Abdullah University of Science and T	Ivan Stupia (Université Catholique de Louvain, Belgium), Luc Vandendorpe (Université	4056
Dor Shaviv (Stanford University, USA), Ayfer Özgür (Stanford University, USA) 4062 Joint Power and Rate Optimization for Co-Channel Small Cells Using Frank-Wolfe Algorithm Haining Wang (University of California, Davis, USA), Zhi Ding (University of California at Davis, USA) 4068 Delay Minimal Policies in Energy Harvesting Broadcast Channels Minghan Fu (Tsinghua University, P.R. China), Ahmed Arafa (University of Maryland College Park, USA), Sennur Ulukus (University of Maryland, USA), Wei Chen (Tsinghua University, P.R. China) 4074 Throughput-Optimal Rate Adaptation for Best-M Feedback in OFDM Systems Jobin Francis (Indian Institute of Science, India), Neelesh B. Mehta (Indian Institute of Science, India) 4080 ICC'16 GCSN: IEEE ICC 2016 - Green Communications Systems and Networks Energy Harvesting 2 Joint Admission Control and Content Caching Policy for Energy Harvesting Access Points Dusit Niyato (Nanyang Technological University, Singapore), Dong In Kim (Sungkyunkwan University (SKKU), Korea), Ping Wang (Nanyang Technological University, Singapore), Mehdi Bennis (Centre of Wireless Communications, University of Oulu, Finland) 4086 Performance Limits of Energy Harvesting Communications under Imperfect Channel State Information Mohamed Ridha Zenaidi (KAUST, Saudi Arabia), Zouheir Rezki (King Abdullah University of Science and Technologie (KAUST), Saudi Arabia), Hamildou Tembine (New York University of Science and Technologie (KAUST), Saudi Arabia), Hamildou Tembine (New York University of Science and Technologie (KAUST), Saudi Arabia), Hamildou Tembine (New York University of Science and Technologie (KAUST), Saudi Arabia), Hamildou Tembine (New York University of Science and Technologie (KAUST), Saudi Arabia), Hamildou Tembine (New York University of Science and Technologie (KAUST), Mohamed-Silim Alouini (King Abdullah University of Science and Technologie (KAUST), Saudi Arabia), Hamildou Tembine (New York University of Science and Technologie (KAUST), Saudi Arabia), Hamildou Tembine (New York Unive		4030
Joint Power and Rate Optimization for Co-Channel Small Cells Using Frank-Wolfe Algorithm Haining Wang (University of California, Davis, USA), Zhi Ding (University of California at Davis, USA) Delay Minimal Policies in Energy Harvesting Broadcast Channels Minghan Fu (Tsinghua University, P.R. China), Ahmed Arafa (University of Maryland College Park, USA), Sennur Ulukus (University of Maryland, USA), Wei Chen (Tsinghua University, P.R. China) Throughput-Optimal Rate Adaptation for Best-M Feedback in OFDM Systems Jobin Francis (Indian Institute of Science, India), Neelesh B. Mehta (Indian Institute of Science, India) ICC'16 GCSN: IEEE ICC 2016 - Green Communications Systems and Networks Energy Harvesting 2 Joint Admission Control and Content Caching Policy for Energy Harvesting Access Points Dusit Niyato (Nanyang Technological University, Singapore), Dong In Kim (Sungkyunkwan University (SKKU), Korea), Ping Wang (Nanyang Technological University, Singapore), Mehdi Bennis (Centre of Wireless Communications, University of Oulu, Finland) Performance Limits of Energy Harvesting Communications under Imperfect Channel State Information Mohamed Ridha Zenaidi (KAUST, Saudi Arabia), Zouheir Rezki (King Abdullah University of Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (New York University & Learning and Game Theory Lab, USA), Mohamed-Slim Albouini (King Abdullah University of	· · · · · · · · · · · · · · · · · · ·	4062
Delay Minimal Policies in Energy Harvesting Broadcast Channels Minghan Fu (Tsinghua University, P.R. China), Ahmed Arafa (University of Maryland College Park, USA), Sennur Ulukus (University of Maryland, USA), Wei Chen (Tsinghua University, P.R. China)	Joint Power and Rate Optimization for Co-Channel Small Cells Using Frank-Wolfe Algorithm Haining Wang (University of California, Davis, USA), Zhi Ding (University of California at	
Minghan Fu (Tsinghua University, P.R. China), Ahmed Arafa (University of Maryland College Park, USA), Sennur Ulukus (University of Maryland, USA), Wei Chen (Tsinghua University, P.R. China)		4068
Park, USA), Sennur Ulukus (University of Maryland, USA), Wei Chen (Tsinghua University, P.R. China)	· · · · · · · · · · · · · · · · · · ·	
Jobin Francis (Indian Institute of Science, India), Neelesh B. Mehta (Indian Institute of Science, India) 4080 ICC'16 GCSN: IEEE ICC 2016 - Green Communications Systems and Networks Energy Harvesting 2 Joint Admission Control and Content Caching Policy for Energy Harvesting Access Points Dusit Niyato (Nanyang Technological University, Singapore), Dong In Kim (Sungkyunkwan University (SKKU), Korea), Ping Wang (Nanyang Technological University, Singapore), Mehdi Bennis (Centre of Wireless Communications, University of Oulu, Finland) 4086 Performance Limits of Energy Harvesting Communications under Imperfect Channel State Information Mohamed Ridha Zenaidi (KAUST, Saudi Arabia), Zouheir Rezki (King Abdullah University of Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (New York University & Learning and Game Theory Lab, USA), Mohamed-Slim Alouini (King Abdullah University of	Park, USA), Sennur Ulukus (University of Maryland, USA), Wei Chen (Tsinghua University,	4074
ICC'16 GCSN: IEEE ICC 2016 - Green Communications Systems and Networks Energy Harvesting 2 Joint Admission Control and Content Caching Policy for Energy Harvesting Access Points Dusit Niyato (Nanyang Technological University, Singapore), Dong In Kim (Sungkyunkwan University (SKKU), Korea), Ping Wang (Nanyang Technological University, Singapore), Mehdi Bennis (Centre of Wireless Communications, University of Oulu, Finland) Performance Limits of Energy Harvesting Communications under Imperfect Channel State Information Mohamed Ridha Zenaidi (KAUST, Saudi Arabia), Zouheir Rezki (King Abdullah University of Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (New York University & Learning and Game Theory Lab, USA), Mohamed-Slim Alouini (King Abdullah University of		
Joint Admission Control and Content Caching Policy for Energy Harvesting Access Points Dusit Niyato (Nanyang Technological University, Singapore), Dong In Kim (Sungkyunkwan University (SKKU), Korea), Ping Wang (Nanyang Technological University, Singapore), Mehdi Bennis (Centre of Wireless Communications, University of Oulu, Finland) 4086 Performance Limits of Energy Harvesting Communications under Imperfect Channel State Information Mohamed Ridha Zenaidi (KAUST, Saudi Arabia), Zouheir Rezki (King Abdullah University of Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (New York University & Learning and Game Theory Lab, USA), Mohamed-Slim Alouini (King Abdullah University of		4080
Dusit Niyato (Nanyang Technological University, Singapore), Dong In Kim (Sungkyunkwan University (SKKU), Korea), Ping Wang (Nanyang Technological University, Singapore), Mehdi Bennis (Centre of Wireless Communications, University of Oulu, Finland)		
Dusit Niyato (Nanyang Technological University, Singapore), Dong In Kim (Sungkyunkwan University (SKKU), Korea), Ping Wang (Nanyang Technological University, Singapore), Mehdi Bennis (Centre of Wireless Communications, University of Oulu, Finland)	Joint Admission Control and Content Caching Policy for Energy Harvesting Access Points	
Information Mohamed Ridha Zenaidi (KAUST, Saudi Arabia), Zouheir Rezki (King Abdullah University of Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (New York University & Learning and Game Theory Lab, USA), Mohamed-Slim Alouini (King Abdullah University of	Dusit Niyato (Nanyang Technological University, Singapore), Dong In Kim (Sungkyunkwan University (SKKU), Korea), Ping Wang (Nanyang Technological University, Singapore), Mehdi	4086
Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (New York University & Learning and Game Theory Lab, USA), Mohamed-Slim Alouini (King Abdullah University of	Information	
	Science and Technologie (KAUST), Saudi Arabia), Hamidou Tembine (New York University & Learning and Game Theory Lab, USA), Mohamed-Slim Alouini (King Abdullah University of	4092

Nav Kaz	le-Auction-Based Energy Trading for Small Cell Networks with Energy Harvesting rid Reyhanian (University of Tehran, Iran), Behrouz Maham (Nazarbayev University, akhstan), Vahid Shah-Mansouri (University of Tehran, Iran), Chau Yuen (Singapore versity of Technology and Design, Singapore)	4098
	mission Schemes and Performance Analysis for Time-Switching Energy Harvesting	4030
Zhe	engwei Ni (National University of Singapore, Singapore), Mehul Motani (National University Singapore, Singapore)	4104
<i>Distoi</i> Raj: (Na	tion Minimization in Energy Harvesting Sensor Nodes with Compression Power Constraints shekhar Vishweshwar Bhat (National University Singapore, Singapore), Mehul Motani tional University of Singapore, Singapore), Teng Joon Lim (National University of gapore, Singapore)	
Power/Energy M	linimization	
Dar	nal Design of Wireless Networks for Broadband Access with Minimum Power Consumption niel Verenzuela (Linköping University, Sweden), Emil Björnson (Linköping University, eden), Luca Sanguinetti (University of Pisa & SUPELEC, Italy)	4116
	and Energy Cooperation in Relay-enhanced OFDM systems	4110
Xue	eqing Huang (New Jersey Institute of Technology, USA), Nirwan Ansari (New Jersey citute of Technology, USA)	4122
Achie	ving Energy Saving with QoS Guarantee for WLAN using SDN	
Univ	Jia Chen (National Chiao Tung University, Taiwan), Yi Hsin Shen (National Chiao Tung versity, Taiwan), Li-Chun Wang (National Chiao Tung University, Taiwan)	4128
_	y Consumption for Data Distribution in Content Delivery Networks rea Bianco (Politecnico di Torino, Italy), Reza Mashayekhi (Politecnico di Torino, Italy),	
Micl	hela Meo (Politecnico di Torino, Italy), Reza Mashayekhi (Politecnico di Torino, Italy), hela Meo (Politecnico di Torino, Italy) e Optimization of User-Centric Energy-Efficient C-RAN	4135
Jhe	-Yi Lin (Academia Sinica, Taiwan), Chia-Han Lee (Academia Sinica, Taiwan), Hen-Wai Tsao tional Taiwan University, ?)	4141
ICC'16 MWN:	IEEE ICC 2016 - Mobile and Wireless Networking Symposium	
Wireless Netwo	rks	
Fao Kais	admission Maximization Based On Ressource Allocation in Wireless Networks uzi Zarai (Sfax University, Tunisia), Mohammad S. Obaidat (Fordham University, USA), s Mnif (ENET'COM, University of Sfax, Tunisia), Hekma Chaari (LETI, Tunisia), Lotfi	
	nmoun (Proffessor, Tunisia)	4147
	ess Power Controlled TCP with Holdover in Schubert (Stanford University, USA), Nicholas Bambos (Stanford University, USA)	/15 3
	ficient Sub-Frame Based Tag Identification Algorithm for UHF RFID Systems	4133
Jian She	Su (University of Electronic Science and Technology of China, P.R. China), Zhengguo (University of Sussex, United Kingdom), Danfeng Hong (Technical University Munich, many), Victor C.M. Leung (University of British Columbia, Canada)	4159
	: A Frequency-based Channel Access Scheme for Full-Duplex Wireless Networks	
USA	nele Luvisotto (University of Padova, Italy), Alireza Sadeghi (University of Minnesota, A), Farshad Lahouti (Caltech Institute of Techlonogy, USA), Stefano Vitturi (CNR, Italy), nele Zorzi (University of Padova, Italy)	4165
	Compact: Reliable Opportunistic Data Forwarding for Wireless Mesh Networks	TIUJ
Che Univ	rn Zhang (Memorial University of Newfoundland, Canada), Yuanzhu Chen (Memorial versity of Newfoundland, Canada), Cheng Li (Memorial University of Newfoundland, ada)	4172

Radio Access Networks

Hierarchical Cooperation in Heterogeneous Cloud Radio Access Networks	
Po-Han Huang (National Taiwan University, Taiwan), Hsu Kao (National Taiwan University, Taiwan), Wanjiun Liao (National Taiwan University, Taiwan)	4177
Transmit Beamforming for QoE Improvement in C-RAN with Mobile Virtual Network Operators	
Zehua Wang (University of British Columbia, Canada), Derrick Wing Kwan Ng (University of New South Wales, Australia), Vincent W.S. Wong (University of British Columbia, Canada), Robert Schober (University of British Columbia, Canada)	4183
Identifying a Volunteer-like Dilemma in Cooperative Sensing-Empowered Cognitive Radio Network	
Hajar El Hammouti (INPT, Morocco), Essaid Sabir (Hassan II University of Casablanca & ENSEM, Morocco), Loubna Echabbi (INPT, Morocco), Rachid El-Azouzi (University of Avignon, France)	4189
Fast Algorithm for Utility Maximization in C-RAN with Joint QoS and Fronthaul Rate Constraints	
Jian Zhao (Nanjing University, P.R. China), Tony Q. S. Quek (Singapore University of Technology and Design, Singapore), Zander (Zhongding) Lei (Institute for Infocomm Research, Singapore)	4196
Computation Offloading in Cloud-RAN Based Mobile Cloud Computing System Jinkun Cheng (Tsinghua University, P.R. China), Yuanming Shi (ShanghaiTech University, P.R. China), Bo Bai (Tsinghua University, P.R. China), Wei Chen (Tsinghua University, P.R. China)	4202

ICC'16 NGN: IEEE ICC 2016 - Next-Generation Networking and Internet Symposium

Next-generation Flow Management

T	raffic Prediction Based Resource Configuration in Space-based Systems Jun Du (Tsinghua University, Beijing, P.R. China), Chunxiao Jiang (Tsinghua University, Beijing, P.R. China), Yi Qian (University of Nebraska–Lincoln, USA), Zhu Han (University of Houston, USA), Yong Ren (Tsinghua University, Beijing, P.R. China)	. 4208
F	low-based NDN Architecture	
	Xiaobin Tan (University of Science and Technology of China, P.R. China), Zhifan Zhao (University of Science and Technology of China, P.R. China), Yujiao Cheng (University of Science and Technology of China, P.R. China), Junxiang Su (USTC, P.R. China)	. 4214
Ρ	roportional Bandwidth Sharing Using Bayesian Inference in SDN-based Data Centers	
	Purnima Murali Mohan (National University of Singapore, Singapore), Dinil Mon Divakaran (Institute for Infocomm Research, Singapore), Mohan Gurusamy (National University of Singapore, Singapore)	. 4220
	eparating Predictable and Unpredictable Flows via Dynamic Flow Mining for Effective Traffic ngineering	
	Yousuke Takahashi (NTT, Japan), Keisuke Ishibashi (NTT, Japan), Masayuki Tsujino (NTT, Japan), Noriaki Kamiyama (Osaka University & NTT Network Technology Laboratories, Japan), Kohei Shiomoto (NTT, Japan), Tatsuya Otoshi (Osaka University, Japan), Yuichi Ohsita (Osaka University, Japan), Masayuki Murata (Osaka University, Japan)	. 4226
Α	Markov Model of CCN Pending Interest Table Occupancy with Interest Timeout and Retries Amuda James Abu (The Hong Kong University of Science and Technology, Hong Kong), Brahim Bensaou (The Hong Kong University of Science and Technology, Hong Kong), Ahmed	
	M. Abdelmoniem (The Hong Kong University of Science and Technology, Hong Kong)	4233

Future Internet and Next-generation Networking Architectures III (Interactive)

Downlink Coverage Analysis of Two-Tier Heterogeneous Networks with Asynchronous Slots	
Vahid Naghshin (University of New South Wales, Australia), Mark C Reed (University of New South Wales, Australia), Stephen Hanly (Macquarie University, Australia), Neda Aboutorab	
(University of New South Wales, Australia)	4239
Formulation of Path Selection by means of maximum flow and minimum delay on a Free Space Optical Topology	
Scott Fowler (Linköping University, Sweden), George Baravdish (Linköping University, Sweden)	. 4245
Joint Multi-RATs and Cloud-Service Matching Scheme in Wireless Heterogeneous Networks	
Guanhua Qiao (University Of Electronic Science And Technology Of China, P.R. China), Supeng Leng (University of Electronic Science and Technology of China, P.R. China), Yan Zhang (Simula Research Laboratory and University of Oslo, Norway), Liang Xu (University of Electronic Science and Technology of China, P.R. China)	4251
A Matching Game for Data Trading in Operator-Supervised User-Provided Networks	.231
Beatriz Lorenzo (University of Vigo, Spain), Francisco J. González-Castaño (Universidad de Vigo, Spain)	. 4257
QoE-aware Elasticity Support in Cloud-Native 5G Systems	
Sunny Dutta (Aalto University, Finland), Tarik Taleb (Aalto University, Finland), Adlen Ksentini (Eurecom, France)	. 4264
QoS-FS: a new forwarding strategy with QoS for routing in Named Data Networking	
Kerrouche Abdelali (University of Paris-Est, France), Mustapha Reda Senouci (EMP, Algeria), Abdelhamid Mellouk (UPEC, University Paris-Est Creteil Val de Marne, France)	. 4270

ICC'16 ONS: IEEE ICC 2016 - Optical Networks and Systems

Optical Networks and Systems (Interactive)

Performance Comparison Between Spatial Multiplexing and Spatial Modulation in Indoor MIMO Visible Light Communication Systems	
Cuiwei He (Monash University, Australia), Thomas Wang (Monash University, Australia), Jean Armstrong (Monash University, Australia)	4277
Capacity Bounds for Parallel IM-DD Optical Wireless Channels	
Anas Chaaban (King Abdullah University of Science and Technology, Saudi Arabia), Zouheir Rezki (King Abdullah University of Science and Technologie (KAUST), Saudi Arabia), Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi	4202
Arabia)	4283
Analysis and Design of Amplitude Modulation for Optical Wireless Communication with Shot Noise	
Chen Gong (USTC, P.R. China), Qian Gao (University of Science and Technology of China, P.R. China), Zhengyuan Xu (University of Science and Technology of China, P.R. China)	4289
Non-line-of-sight Channel Impulse Response Characterisation in Visible Light Communications	
Cheng Chen (University of Edinburgh, United Kingdom), Dushyantha Basnayaka (The	
University of Edinburgh, United Kingdom), Harald Haas (The University of Edinburgh, United Kingdom)	4295

ICC'16 SAC-2 CCN: IEEE ICC 2016 SAC Cloud Communications and Networking

Cloud Communications and Networking (Interactive)

LinSOS: Secure Outsourcing of Linear Computations Based on Affine Mapping Kai Zhou (MSU, USA), Jian Ren (Michigan State University, USA) Power-Efficient Virtual Machine Replication in Data Centers	4301
Payman Khani (CSUDH, USA), Bin Tang (California State University Dominguez Hills, USA), Jianchao Han (CSUDH, USA), Mohsen Beheshti (CSUDH, USA)	4306
CC'16 SAC-4 E-HLT: IEEE ICC 2016 SAC E-Health	
e-Health Networks	
Source Routing with Protocol-oblivious Forwarding (POF) to Enable Efficient e-Health Data Transfers	
Shengru Li (University of Science and Technology of China, P.R. China), Daoyun Hu (University of Science and Technology of China, P.R. China), Wenjian Fang (University of Science and Technology of China, P.R. China), Zuqing Zhu (University of Science and Technology of China, P.R. China)	4313
An Incremental Learning Classification Algorithm based on Forgetting Factor for eHealth Networks	
Li Yang (Nanjing University of Posts and Telecommunications, P.R. China), Kun Wang (Nanjing University of Posts and Telecommunications, P.R. China), Chenhan Xu (Nanjing University of Posts and Telecommunications, P.R. China), Chunsheng Zhu (The University of British Columbia, Canada), Yanfei Sun (Nanjing University of Posts and Telecommunications, P.R. China)	4319
Tissue Safety Analysis and Duty Cycle Planning for Galvanic Coupled Intra-body Communication Meenupriya Swaminathan (Northeastern University, USA), Ufuk Muncuk (Northeastern University, USA), Kaushik Chowdhury (Northeastern University, USA)	
On Design of Interference Self-Coordination (ISC) Solution to Enable mHealth Services in HetNets	. 4323
Yaxing Qiu (Peking University, P.R. China), Hemin Yang (Peking University, P.R. China), Anpeng Huang (Peking University, P.R. China), Bingli Jiao (Peking University, P.R. China)	4331
Wenda Li (University of Bristol, United Kingdom), Bo Tan (University Of Bristol, United Kingdom), Robert J Piechocki (University of Bristol, United Kingdom)	4337
CC'16 SAC-8 SN: IEEE ICC 2016 SAC Social Networking	
Social Media	
Where Are We Visiting? Measurement and Analysis of Venues in Dianping Yue Huang (Fudan University, P.R. China), Yang Chen (Fudan University, P.R. China), Qian Zhou (Fudan University, P.R. China), Jin Zhao (Fudan University, P.R. China), Xin Wang (Fudan University, P.R. China)	4343

Continuent Analysis Com Piners to Multi Cl. Cl. (C. 1)	1349
Sentiment Analysis: from Binary to Multi-Class Classification - A Pattern-Based Approach for Multi-Class Sentiment Analysis in Twitter	
Mondher Bouazizi (Keio University, Japan), Tomoaki Ohtsuki (Keio University, Japan)	1356
Haroon Raja (Rutgers University, USA), Muhammad Usman Ilyas (National University of Sciences and Technology & School of Electrical Engineering and Computer Science (SEECS), Pakistan), Saad Saleh (National University of Sciences and Technology (NUST), Islamabad, Pakistan), Alex X. Liu (Michigan State University, USA), Hayder Radha (Michigan State University, USA)	1362
On Diffusion-restricted Social Network: A Measurement Study of WeChat Moments	1302
Zhuqi Li (Peking University, P.R. China), Lin Chen (Yale University, USA), Yichong Bai (Peking University, P.R. China), Kaigui Bian (Peking University, P.R. China), Pan Zhou (Huazhong University of Science and Technology, P.R. China)	1369
Contrastive Topic Evolution Discovery via Nonnegative Matrix Factorization	
Qianru Li (Shanghai Jiao Tong University, P.R. China), Bo Chen (Shanghai Jiao Tong University, P.R. China), Songjun Ma (Shanghai Jiao Tong University, P.R. China), Luoyi Fu (Shanghai Jiao Tong University, P.R. China), Xinbing Wang (Shanghai Jiaotong University, P.R. China)	1375
Pricing Game of Celebrities in Sponsored Viral Marketing in Online Social Networks with a Greedy Advertising Platform	.575
Zhiyi Lu (The University of Hong Kong, Hong Kong), Haojie Zhou (The University of Hong Kong, P.R. China), Victor O. K. Li (University of Hong Kong, P.R. China), Yi Long (The University of Hong Kong, P.R. China)	1381
ICC'16 SPC: IEEE ICC 2016 - Signal Processing for Communications Symposium	n
Spatial Modulation	
Power-Efficient Space Shift Keying Transmission via Semidefinite Programming	
Adrian Garcia-Rodriguez (University College London, United Kingdom), Christos Masouros (University College London, United Kingdom), Lajos Hanzo (University of Southampton, United Kingdom)	1387
Bandwidth Efficient Spatial Modulation Signalling in the Power Domain	
Christos Masouros (University College London, United Kingdom), Lajos Hanzo (University of Southampton, United Kingdom)	1393
Low-Complexity Tree Search-based Detection Algorithms for Generalized Spatial Modulation Aided Single Carrier Systems	
Lixia Xiao (University of Electronic Science and Technology of China, P.R. China), Ping Yang (University of Electronic Science and Technology of China, P.R. China), Yan Zhao (UESTC, P.R. China), Yue Xiao (University of Electronic Science and Technology of China, P.R. China), Jiang Liu (UESTC, P.R. China), Shaoqian Li (University of Electronic Science and Technology of China, P.R. China)	1399

Sentiment Classification of Tweets using Hierarchical Classification

Optimal Energy Efficient Level Set Estimation of Spatially-Temporally Correlated Random Fields	;
Zuoen Wang (University of Arkansas, USA), Jingxian Wu (University of Arkansas, USA), Jing Yang (University of Arkansas, USA), Hai Lin (Osaka Prefecture University, Japan)	4405
Artificial-Noise Aided Transmit Design for Outage Constrained Service Integration	
Weidong Mei (University of Electronic Science and Technology of China, P.R. China), Lingxiang Li (University of Electronic Science and Technology of China, P.R. China), Zhi Chen (University of Electronic Science and Technology of China & University of California, Riverside P.R. China), Chuan Huang (University of Electronic Science and Technology of China, P.R. China)	2,
Cnina)	4411
ICC'16 WCS: IEEE ICC 2016 - Wireless Communications Symposium	
Energy Harvesting III	
Resource Allocation Techniques for Wireless Powered Communication Networks	
Hoon Lee (Korea University, Korea), Kyoung-Jae Lee (Hanbat National University, Korea), Hanjin Kim (Korea Univversity, Korea), Bruno Clerckx (Imperial College London, United Kingdom), Inkyu Lee (Korea University, Korea)	4418
Power Allocation and Scheduling for SWIPT Systems with Non-linear Energy Harvesting Model	
Elena Boshkovska (University of Erlangen-Nuremberg, Germany), Rania Morsi (Friedrich-Alexander-University Erlangen-Nuremberg, Germany), Derrick Wing Kwan Ng (University of New South Wales, Australia), Robert Schober (University of British Columbia, Canada)	4424
SWIPT with Practical Modulation and RF Energy Harvesting Sensitivity	
Wanchun Liu (The Australian National University, Australia), Xiangyun Zhou (The Australian National University, Australia), Salman Durrani (The Australian National University, Australia) Petar Popovski (Aalborg University, Denmark)	
Reinforcement Learning for Energy Harvesting Point-to-Point Communications	
Andrea Ortiz (TU Darmstadt, Germany), Hussein Al-Shatri (TU Darmstadt, Germany), Xiang Li (University of Rostock, Germany), Tobias Weber (Uni Rostock, Germany), Anja Klein (TU Darmstadt, Germany)	4437
Battery Size Optimization for Energy Harvesting Wireless Nodes	
Remun Koirala (Jacobs University Bremen, Germany), Stefano Severi (Jacobs University Bremen, Germany), Giuseppe Abreu (Jacobs University Bremen, Germany)	4443
Cooperative Networks and Relaying Communications IV	
Interference-Free Probing for Relay-Assisted Cross-Channel Gain Estimation in Two-Tier Networks	
Bijia Huang (University of Electronic Science and Technology of China (UESTC), P.R. China), Liying Li (University of Electronic Science and Technology of China, P.R. China), Guodong Zhao (University of Electronic Science and Technology of China (UESTC), P.R. China), Zhi Chen (University of Electronic Science and Technology of China & University of California, Riverside, P.R. China)	4448
Two-Level Game for Relay-Based Throughput Enhancement via D2D Communications in LTE Networks	
Jingjing Zhao (Queen Mary University of London, United Kingdom), Kok Keong Chai (Queen Mary University of London, United Kingdom), Yue Chen (Queen Mary University of London, United Kingdom), John Schormans (Queen Mary, University of London, United Kingdom), Jesus Alonso-Zarate (Centre Tecnologic de Telecomunicacions de Catalunya - CTTC, Spain)	4454
Radio Resource Allocation for Uplink Sparse Code Multiple Access (SCMA) Networks using Matching Game	
Boya Di (Peking University, P.R. China), Lingyang Song (Peking University, P.R. China), Yonghui Li (University of Sydney, Australia)	4460

Optimal Caching Placement for D2D Assisted Wireless Caching Networks	
Jun Rao (Shanghai Jiao Tong University, P.R. China), Hao Feng (Shanghai Jiao Tong Univerisity, P.R. China), Chenchen Yang (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)	4466
Novel Pilot-Based Estimators for AF Relaying Channels Using Energy Harvesting	1100
Yunfei Chen (University of Warwick, United Kingdom), Wei Feng (Tsinghua University, P.R. China), Rui Shi (Tsinghua University, P.R. China), Ning Ge (Tsinghua University, P.R. China)	4472
Millimeter Wave and Terahertz Communications II	
Rate Analysis and Feasibility of Dynamic TDD in 5G Cellular Systems	
Abhishek Kumar Gupta (The University of Texas at Austin, USA), Mandar N. Kulkarni (The University of Texas at Austin, USA), Eugene Visotsky (Nokia Siemens Networks, USA), Frederick W. Vook (Nokia Networks, USA), Amitava Ghosh (Nokia Networks, USA), Jeffrey Andrews (The University of Texas at Austin, USA), Robert Heath Jr. (University of Texas at Austin, USA)	4478
A Dual-Channel 60 GHz Communications Link using Patch Antenna Arrays to Generate Data- Carrying Orbital-Angular-Momentum Beams	
Zhe Zhao (University of Southern California, USA), Yan Yan (University of Southern California, USA), Long Li (University of Southern California, USA), Guodong Xie (University of Southern California, USA), Nisar Ahmed (University of Southern California, USA), Zhe Wang (University of Southern California, USA), Cong Liu (University of Southern California, USA), Asher Willner (University of Southern California, USA), Pingyue Song (University of Southern California, USA), Hossein Hashemi (University of Southern California, USA), Haohan Yao (University of Texas at Dallas, USA), Duncan MacFarlane (University of Texas at Dallas, USA), Rashaunda Henderson (University of Texas at Dallas, USA), Nima Ashrafi (University of Texas at Dallas & NxGen Partners, USA), Solyman Ashrafi (NxGen Partners, USA), Shilpa Talwar (Intel, USA), Soji Sajuyigbe (Intel Labs, Intel Corporation, USA), Moshe Tur (Tel Aviv University, Israel), Andreas Molisch (University of Southern California, USA), Alan Willner (University of Southern	
California, USA)	4484
Vutha Va (University of Texas at Austin, USA), Takayuki Shimizu (TOYOTA InfoTechnology Center USA, USA), Gaurav Bansal (Toyota InfoTechnology Center, USA), Robert Heath (The University of Texas at Austin, USA)	4490
Distance Dependence of Path Loss Models with Weighted Fitting	
Aki Karttunen (University of Southern California, USA), Andreas Molisch (University of Southern California, USA), Rui Wang (University of Southern California, USA), Sooyoung Hur (Samsung Electronics Co., Korea), Jianzhong Zhang (Samsung, USA), Jeongho Park (Samsung Electronics, Korea)	4496
Millimeter-Wave Device-to-Device Multi-Hop Routing for Multimedia Applications Nima Eshraghi (University of Tehran, Iran), Behrouz Maham (Nazarbayev University, Kazakhstan), Vahid Shah-Mansouri (University of Tehran, Iran)	
ICC'16 AHSN: IEEE ICC 2016 Ad-hoc and Sensor Networking Symposium Performance Evaluation	
Packing of Cutsets for a Breach Path Detection Problem Mohammed Elmorsy (University of Alberta, Canada), Ehab S. Elmallah (University of Alberta, Canada)	4508

On the Optimum Number of Cooperating Nodes in Interfered Cluster-Based Sensor Networks	
Stefan Mijovic (University of Bologna, Italy), Luca Sanguinetti (University of Pisa & SUPELEC, Italy), Chiara Buratti (University of Bologna, Italy), Mérouane Debbah (Huawei, France)	4515
A Novel R-PCA based Multivariate Fault-tolerant Data Aggregation Algorithm in WSNs	
Tianqi Yu (The University of Western Ontario, Canada), Xianbin Wang (University of Western Ontario, Canada), Abdallah Shami (University of Western Ontario, Canada)	4521
A Primal-Dual Algorithm for Data Gathering Based on Matrix Completion for Wireless Sensor	
Networks	
Mohamed-Ali Moussa (Universite Paris-Est, France), Yosra Marnissi (Universit♦e Paris-Est Marne-la-Vall♦ee, France), Yacine Ghamri-Doudane (University of la Rochelle, France)	4526
Coverage-based Node Placement Optimization in Wireless Sensor Network with Linear Topology	
Fahad Alduraibi (University of Maryland Baltimore County, USA), Noureddine Lasla (Research Center on Scientific and Technical Information (CERIST), Algeria), Mohamed Younis	
(University of Maryland Baltimore County, USA)	4531

ICC'16 CISS: IEEE ICC 2016 Communication and Information Systems Security Symposium

Security of Smart Device Systems

LPPS: Location Privacy Protection for Smartphones	
Hongli Zhang (Harbin Institute of Technology, P.R. China), Zhikai Xu (Harbin Institute of Technology, P.R. China), Xiangzhan Yu (Harbin Institute of Technology, P.R. China), Xiaog Du (Temple University, USA)	
Secure and Energy Efficient Prefetching Design for Smartphones	
Shang Gao (The Hong Kong Polytechnic University, Hong Kong), Zhe Peng (The Hong Kor Polytechnic University, Hong Kong), Bin Xiao (The Hong Kong Polytechnic University, Hon Kong), Song Yubo (Southeast University, P.R. China)	ıg
Behavior Grouping of Android Malware Family	
Shun-Wen Hsiao (Academia Sinica, Taiwan), Yeali S. Sun (National Taiwan University, Taiwan), Meng Chang Chen (Academia Sinica, Taiwan)	4549
NomadiKey: User Authentication for Smart Devices based on Nomadic Keys	
Leonardo Cotta (Universidade Federal de Minas Gerais, Brazil), Artur Luis de Souza (Universidade Federal de Minas Gerais, Brazil), Leandro Melo (Universidade Federal de Minas Gerais, Brazil), Luiz Felipe Saggioro (Universidade Federal de Minas Gerais, Brazil), Frede Sampaio (Federal University of Minas Gerais (UFMG), Brazil), Antonio Maia (Universidade Federal de Minas Gerais, Brazil), Antonio A.F. Loureiro (Federal University of Minas Gerais Brazil), Italo Cunha (Universidade Federal de Minas Gerais, Brazil), Leonardo Oliveira (Federal University of Minas Gerais, Brazil)	rico S, deral
Identification of Visible Industrial Control Devices at Internet Scale	
Xuan Feng (University of Chinese Academy of Sciences, P.R. China), Qiang Li (Beijing Jiaotong University, P.R. China), Qi Han (Colorado School of Mines, USA), Hongsong Zhu (Institute of Information Engineering, Chinese Academy of Sciences, P.R. China), Yan Liu (Peking University, P.R. China), Limin Sun (Institute of Information Engineering, China Academy of Science, Beijing, P.R. China)	

ICC'16 CQRM: IEEE ICC 2016 - Communication QoS, Reliability and Modeling Symposium

Resource Allocation II

Performance Evaluation of Multi-Core, Multi-Threaded SIP Proxy Servers (SPS) Ramesh Krishnamurthy (North Carolina State University, USA), George N. Rouskas (North Carolina State University, USA)	4567
Achieving High Availability in Wireless Networks by Inter-Frequency Multi-Connectivity	
David Oehmann (Technische Universität Dresden, Germany), Ahmad Awada (Nokia Bell Labs, Germany), Ingo Viering (Nomor Research GmbH, Germany), Meryem Simsek (Technische Universität Dresden, Germany), Gerhard P. Fettweis (Dresden University of Technology,	4573
Link Adaptation Design for Ultra-Reliable Communications	
Hamidreza Shariatmadari (Aalto University, Finland), Zexian Li (Nokia Bell Labs, Finland), Mikko A Uusitalo (Nokia Technologies, Finland), Sassan Iraji (Aalto University, Finland), Riku Jäntti (Aalto University School of Electrical Engineering, Finland)	4580
M2M Massive Access in LTE: RACH Performance Evaluation in a Smart City Scenario	
Michele Polese (University of Padova, Italy), Marco Centenaro (University of Padova, Italy), Andrea Zanella (University of Padova, Italy), Michele Zorzi (University of Padova, Italy)	4585
Energy Harvesting-aware Contention Tree-based Access for Wireless Machine-to-Machine Networks	
Francisco Vázquez-Gallego (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Spain), Luis Alonso (Universidad Politecnica de Catalunya-BarcelonaTECH & Telecommunications and Aerospatial Engineering School of Castelldefels, Spain), Jesus Alonso-Zarate (Centre Tecnologic de Telecomunicacions de Catalunya - CTTC, Spain)4	4591

ICC'16 CRN: IEEE ICC 2016 - Cognitive Radio and Networks Symposium

Emerging Topics, Services, and Applications I (Interactive)

Active Interference Constraint Learning with Uncertain Feedback for Cognitive Radio Networks Anestis Tsakmalis (University of Luxembourg & SnT, Luxembourg), Symeon Chatzinotas (University of Luxembourg, Luxembourg), Björn Ottersten (University of Luxembourg, Luxembourg)	4597
Cooperation for Optimal Demand Response in Cognitive Radio Enabled Smart Grid	
Ke Zhang (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), Hanna Bogucka (Poznan University of Technology, Poland), Stein Gjessing (University of Oslo & Simula Research Lab., Norway), Yan Zhang (Simula Research Laboratory and University of Oslo, Norway)	4603
Many-to-Many Matching for Combinatorial Spectrum Trading	
Jiang Linshan (South University of Science and Technology of China, P.R. China), Haofan Cai (South University of Science and Technology of China, P.R. China), Yanjiao Chen (University of Toronto, Canada), Jin Zhang (South University of Science and Technology of China, P.R. China), Baochun Li (University of Toronto, Canada)	4609
Cooperative Signal Classification using Spectral Correlation Function in Cognitive Radio Networks	
Zhi Quan (Southern University of Science and Technology, P.R. China), Dong Li (Macau University of Science and Technology, Macao), Yi Gong (South University of Science and Technology of China, P.R. China)	4615

On the Outage Probability of Information Sharing in Cognitive Vehicular Networks	
Chunxiao Jiang (Tsinghua University, Beijing, P.R. China), Haijun Zhang (The University of British Columbia, Canada), Zhu Han (University of Houston, USA), Julian Cheng (University of British Columbia, Canada), Yong Ren (Tsinghua University, Beijing, P.R. China), Lajos Hanzo	
(University of Southampton, United Kingdom)	4621
Dynamic Rendezvous Algorithms For Cognitive Radio Networks	
Haosen Pu (Tsinghua University, P.R. China), Zhaoquan Gu (Tsinghua University, P.R. China), Xiao Lin (Tsinghua University, P.R. China), Qiang-Sheng Hua (Huazhong University of Science and Technology, P.R. China), Hai Jin (Huazhong University of Science and Technology, P.R. China)	4627
Cilita)	. 4027
ICC'16 CSSMA: IEEE ICC 2016 - Communications Software, Services and Multimedia Applications Symposium	
Future Networking Services and Technologies	
A Game Theoretic Scheme for Relay Service in Heterogeneous Content Centric Networks	
Chen Li (Shanghai University, P.R. China), Qichao Xu (Shanghai University, P.R. China), Zhou Su (Shanghai University, P.R. China), Qifan Qi (Shanghai University, P.R. China)	. 4633
Retrieving Information with Autonomously-Flying Routers in Information-Centric Network	
Taku Kitagawa (Osaka University, Japan), Shingo Ata (Osaka City University, Japan), Masayuki Murata (Osaka University, Japan)	4638
A Novel Caching Mechanism for Internet of Things (IoT) Sensing Service with Energy Harvesting	
Dusit Niyato (Nanyang Technological University, Singapore), Dong In Kim (Sungkyunkwan University (SKKU), Korea), Ping Wang (Nanyang Technological University, Singapore), Lingyang Song (Peking University, P.R. China)	. 4644
A K-means-based Network Partition Algorithm for Controller Placement in Software Defined Network	
Guodong Wang (South Dakota School of Mines and Technology, USA), Yanxiao Zhao (South Dakota School of Mines and Technology, USA), Jun Huang (Chongqing University of Posts and Telecomm, P.R. China), Qiang Duan (The Pennsylvania State University, USA), Jun Li (Computer Network Information Center, Chinese Academy of Sciences, P.R. China)	. 4650
Towards Cost-Efficient Workload Scheduling For a Tango between Geo-Distributed Data Center and Power Grid	
Han Hu (Nanyang Technological University, Singapore), Yonggang Wen (Nanyang Technological University, Singapore), Lei Yin (University of Science and Technology of China, P.R. China), Ling Qiu (University of Science and Technology of China, P.R. China)	. 4656
ICC'16 CT: IEEE ICC 2016 - Communications Theory	
Molecular Communication	
Molecular Communication with a Reversible Adsorption Receiver	
Yansha Deng (King's College London, United Kingdom), Adam Noel (University of Ottawa,	
Canada), Maged Elkashlan (Queen Mary, University of London, United Kingdom), Arumugam Nallanathan (King's College London, United Kingdom), Karen C Cheung (University of British Columbia, Canada)	. 4663
Receiver Design for Diffusion-based Molecular Communication: Gaussian Mixture Modeling	
Yeganeh Zamiri-Jafarian (Queen's University, Canada), Saeed Gazor (Queen's University, Canada)	. 4670

Reactive Receiver Modeling for Diffusive Molecular Communication Systems with Molecule Degradation	
Arman Ahmadzadeh (University of Erlangen-Nuremberg, Germany), Hamidreza Arjmandi (Sharif University of Technology, Iran), Andreas Burkovski (University of Erlangen- Nuremberg, Germany), Robert Schober (University of British Columbia, Canada)	4676
Diversity in Diffusion-Based Molecular Communication Channel with Drift	
Derya Malak (The University of Texas at Austin, USA), Hamideh Ramezani (Koç University, Turkey), Murat Kocaoglu (The University of Texas at Austin, USA), Ozgur B. Akan (Koc University, Turkey)	4683
Energy Model for Vesicle-Based Active Transport Molecular Communication	
Nariman Farsad (Stanford University, USA), Huseyin Birkan Yilmaz (Yonsei University, Yonsei Institute of Convergence Technology, Korea), Chan-Byoung Chae (Yonsei University, Korea), Andrea Goldsmith (Stanford University, USA)	4689
ICC'16 GCSN: IEEE ICC 2016 - Green Communications Systems and Networks	
Energy Management 1	
Combinatorial Multi-armed Bandit Algorithms for Real-time Energy Trading in Green C-RAN Wan Nur Suryani Firuz Wan Ariffin (King's College London, United Kingdom), Xinruo Zhang (King's College London, United Kingdom), Mohammad Reza Nakhai (King's College London, United Kingdom)	4695
Green Scheduling for Cloud Data Centers Using ESDs to Store Renewable Energy	
Chonglin Gu (Harbin Institute of Technology Shenzhen Graduate School, P.R. China), Hejiao Huang (Harbin Institute of Technology, P.R. China), Xiaohua Jia (City University of Hong Kong, Hong Kong)	4701
Learning-Based Joint Power and Channel Assignment for Hyper Dense 5G Networks	
Atefeh Hajijamali Arani (Isfahan University of Technology, Iran), Abolfazl Mehbodniya (Tohoku University, Japan), Mohammad Javad Omidi (Isfahan University of Technology, Iran), Fumiyuki Adachi (Tohoku University, Japan)	4708
Energy-Aware Fog and Cloud Interplay Supported by Wide Area Software Defined Networking	
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)	4715
Exploiting Energy Cooperation in Opportunistic Wireless Information and Energy Transfer for Sustainable Cooperative Relaying	
Hengzhi Wang (Zhejiang University, P.R. China), Wei Wang (Zhejiang University, P.R. China), Zhaoyang Zhang (Zhejiang University, P.R. China), Aiping Huang (Zhejiang University, P.R. China)	4722
ICC'16 MWN: IEEE ICC 2016 - Mobile and Wireless Networking Symposium IEEE 802.11 Networks	
Analysis of the Downlink Saturation Throughput of an Asymmetric IEEE 802.11n-based WLAN	
Mohammad Soleymani (University of Tehran, Iran), Behrouz Maham (Nazarbayev University, Kazakhstan), Farid Ashtiani (Sharif University of Technology, Iran)	4728
Throughput Analysis of the IEEE802.11p EDCA Considering Transmission Opportunity For Non-Safety Applications	
Mohammed Amine Togou (University of Technology of Troyes, France), Lyes Khoukhi (University of Technology of Troyes, France), Abdelhakim Hafid (University of Montreal, Canada)	4734

Managing Channel Bonding with Clear Channel Assessment in 802.11 Networks	
Wei Wang (Hong Kong University of Science and Technology, Hong Kong), Fan Zhang (HKUST Fok Ying Tung Graduate School (FYTGS), Hong Kong), Qian Zhang (Hong Kong University of Science and Technology, Hong Kong)	4740
Throughput-fairness Tradeoff Evaluation for Next-generation WLANs with Adaptive Clear Channel Assessment	
Wessam Afifi (University of Arizona, USA), Enrico Rantala (Nokia Technologies, USA, Finland), Esa Tuomaala (Nokia Technologies, USA, Finland), Sayantan Choudhury (Nokia Technologies, USA, USA), USA), Marwan Krunz (University of Arizona, USA)	4746
An Adaptive Tail Time Adjustment Scheme Based on Inter-Packet Arrival Time for IEEE 802.11 WLAN	
Si Young Jang (KAIST, Korea), Byoungheon Shin (KAIST, Korea), Dongman Lee (Korea Advanced Institute of Science and Technology, Korea)	4752
Device to Device (D2D) Communications	
Potential games for subcarrier allocation in multi-cell networks with D2D communications	
Demia Della Penda (KTH Royal Institute of Technology, Sweden), Andrea Abrardo (University of Siena, Italy), Marco Moretti (Università di Pisa, Italy), Mikael Johansson (Royal Institute of Technology, Sweden)	4758
A Stable Matching Algorithm for Resource Allocation for Underlaying Device-to-Device Communications	
Mohammad Tauhidul Islam (Queen's University, Canada), Abd-Elhamid M. Taha (Alfaisal University, Saudi Arabia), Selim G. Akl (Queen's University, Canada), Mervat Abu-Elkheir (Mansoura University, Egypt)	4764
A Two-Phase Auction-Based Fair Resource Allocation for Underlaying D2D Communications Mohammad Tauhidul Islam (Queen's University, Canada), Abd-Elhamid M. Taha (Alfaisal University, Saudi Arabia), Selim G. Akl (Queen's University, Canada), Salimur Choudhury (Algoma University, Canada)	4770
Interference Aware Approach for D2D Communications	
Francesco Chiti (Università degli Studi di Firenze, Italy), Dario Di Giacomo (University of Florence, Italy), Romano Fantacci (University of Florence, Italy), Laura Pierucci (University of Florence, Italy)	4776
A Matching Approach for Power Efficient Relay Selection in Full Duplex D2D Networks	
Bojiang Ma (University of British Columbia, Canada), Hamed Shah-Mansouri (University of British Columbia, Canada), Vincent W.S. Wong (University of British Columbia, Canada)	4782
ICC'16 NGN: IEEE ICC 2016 - Next-Generation Networking and Internet Sympos	sium
QoS and QoE in Next-generation Networks	
Joint Optimization on Switch Activation and Flow Routing towards Energy Efficient Software Defined Data Center Networks	
Deze Zeng (China University of Geosciences, P.R. China), Guang Yang (China University of Geosciences, P.R. China), Lin Gu (The University of Aizu, Japan), Song Guo (The University of Aizu, Japan), Hong Yao (China University of Geosciences, P.R. China)	4788
Optimal Proactive Cache Management in Mobile Networks	
Gao Zheng (King's College London, United Kingdom), Vasilis Friderikos (King's College London, United Kingdom)	4794

Handling Service Allocation in Combined Fog-Cloud Scenarios	
Vitor B Souza (Universidade Federal de Viçosa & Universitat Politècnica de Catalunya, Brazil), 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), Guang-Jie Ren (IBM, USA), Ghazal Tashakor (UPC.	
Universitat Politècnica de Catalunya & Advanced Network Architectures Lab (CRAAX), Spain)	4800
Reservation and Contention Reduced Channel Access Method with effective Quality of Service for Wireless Mesh Networks	
P. Venkata Krishna (Sri Padmavati Mahila University, India), Pounambal M (VIT University, India), V Saritha (VIT University, India), Sudip Misra (Indian Institute of Technology-Kharagpur, India), Mohammad S. Obaidat (Fordham University, USA)	4805
Power Control Based Time-Domain Inter-Cell Interference Coordination Scheme in DSCNs	
Wenjuan Lu (University of Science and Technology of China, P.R. China), Qiang Fan (University of Science and Technology of China, P.R. China), Zexue Li (University of Science	
and Technology of China, P.R. China), Hancheng Lu (University of Science and Technology of China, P.R. China)	4812
	1012
Next-generation Access Networking and Mobile Security (Interactive)	
Embracing Adjacent Channel Interference in Next Generation Wi-Fi Networks	
Lu Wang (Shenzhen University, P.R. China), Xiaoke Qi (Institute of Automation, Chinese	
Academy of Sciences, P.R. China), Kaishun Wu (Shenzhen University, P.R. China)	4818
On Cooperative Jamming in Wireless Networks with Eavesdroppers at Arbitrary Locations	
Zhihong Liu (Xidian University, P.R. China), Jiajia Liu (Xidian University, P.R. China), Jian- feng Ma (Xidian University, P.R. China), Qiping Huang (Xidian University, P.R. China)	4824
A Fuzzy Logic-Based Communication Medium Selection for QoS Preservation in Vehicular Networks	
Tarek Bouali (DRIVE Lab, ISAT Nevers, France), Sidi-Mohammed Senouci (University of Bourgogne - ISAT Nevers, France)	4830
Toward Designing an Adaptive Communication Security for the Next-generation Mobile Computing	
Abdulmonem Mohammad Rashwan (Queen's University, Canada), Abd-Elhamid M. Taha (Alfaisal University, Saudi Arabia), Hossam S. Hassanein (Queen's University, Canada),	4026
Ayman Radwan (Instituto de Telecomunicações, Portugal)	4030
Kaishun Wu (Shenzhen University, P.R. China)	4842
An Adaptive Channel Access Mechanism for LTE-U and WiFi Coexistence in an Unlicensed Spectrum	T0T2
Jie Xiao (Southeast University, P.R. China), Jun Zheng (Southeast University, P.R. China)	4848
ICC'16 ONS: IEEE ICC 2016 - Optical Networks and Systems	
Optical Networks and Systems (Interactive)	
Data Center Optical Data Link Layer Architecture Design and Analysis	
Henna Huang (MIT, USA), Vincent Chan (Massachusetts Institute of Technology, USA)	4854
Downlink Cooperation with Fractional Frequency Reuse in DCO-OFDMA Optical Attocell Networks	
Hossein Kazemi (The University of Edinburgh, United Kingdom), Harald Haas (The University	4061
of Edinburgh, United Kingdom)	4861

A Spectral Efficient Optical CDMA Transmission Scheme with Energy Alternation and Single- User Soft-Decision Demodulation	
Aminata Garba (Carnegie Mellon University, USA)	4867
Load Balancing and Latency Reduction in Multi-User CoMP over TWDM-VPONs	
Gustavo Bittencourt Figueiredo (Federal University of Bahia, Brazil), Xinbo Wang (University of California, Davis, USA), Carlos Colman-Meixner (University of California, Davis, USA), Massimo Tornatore (Politecnico di Milano & University of California, Davis, Italy), Biswanath Mukherjee (University of California, Davis, USA)	4873
ICC'16 SAC-1 ASN: IEEE ICC 2016 SAC Access Systems and Networks	
Integrated Wired/Wireless Access	
Multi-Stratum Resources Optimization for Cloud-based Radio over Optical Fiber Networks Hui Yang (Beijing University of Posts and Telecommunications (BUPT), P.R. China), Jie Zhang (Beijing University of Posts and Telecommunications, P.R. China), Yongli Zhao (Beijing University of Posts and Telecommunications, P.R. China), Ji Yuefeng (Beijing University of Posts and Telecommunications, P.R. China), Young Lee (Huawei Technologies Co., Ltd, USA) Time-Domain Precoding for LTE-over-Copper Systems	4879
Yezi Huang (Lund University, Sweden), Eduardo Medeiros (Lund University, Sweden), Thomas Magesacher (Lund University, Sweden), Stefan Höst (Lund University, Sweden), Chenguang Lu (Ericsson Research, Sweden), Per-Erik Eriksson (Ericsson Research, Sweden), Per Ödling (Lund University, Sweden), Per Ola Börjesson (Dept. of Electrical and Information Technology Lund University, Sweden)	4884
A New Virtual Network Embedding Framework based on QoS Satisfaction and Network Reconfiguration for Fiber-Wireless Access Network	
Pengchao Han (Northeastern University, P.R. China), Lei Guo (Northeastern University, P.R. China), Yejun Liu (Northeastern University, P.R. China), Xuetao Wei (University of Cincinnati, USA), Jian Hou (Northeastern University, P.R. China), Xu Han (Northeastern University, P.R. China)	4890
A Performance Study of Proxy-based TCP Rate Control Design for Mobile Video Streaming Services	
Joohyung Lee (Samsung Electronics, Korea), Hyungho Lee (Samsung Electronics, Korea), Jinsung Lee (Samsung Electronics, Korea), Hanna Lim (Digital Media & Communication R&D Center & Samsung Electronics, Korea), Jungshin Park (Samsung Electronics, Korea), Jicheol Lee (Samsung Electronics, Korea)	4897
Passive Optical Network Range Applicable to Cost-effective Mobile Fronthaul	
Hiroshi Ou (NTT Corporation, Japan), Takayuki Kobayashi (NTT, Japan), Tatsuya Shimada (NTT, Japan), Daisuke Hisano (NTT, Japan), Jun Terada (NTT Corporation, Japan), Akihiro Otaka (NTT Corporation, Japan)	4903
ICC'16 SAC-4 E-HLT: IEEE ICC 2016 SAC E-Health Healthcare Sensor Networks	
An Intra-body Linear Channel Model Based on Neuronal Subthreshold Stimulation Alireza Khodaei (University of Nebraska-Lincoln, USA), Massimiliano Pierobon (University of Nebraska-Lincoln, USA)	4909
A Hybrid Key Management Scheme for Healthcare Sensor Networks Pallavi Meharia (University of Cincinnati, USA), Dharma P Agrawal (University of Cincinnati, USA) USA)	4916
/	

A Physiological Information Extraction Method Based on Wearable PPG Sensors with Motion Artifact Removal	
Wei-Jheng Lin (National Tsing Hua University, Taiwan), Hsi-Pin Ma (National Tsing Hua University, Taiwan)	4922
Real Time Non-Contact Remote Cardiac Monitoring	
Md Shaad Mahmud (University of Massachusetts Dartmouth, USA), Honggang Wang (University of Massachusetts, Dartmouth & College of Engineering, USA), Yong Kim (University of Massachusetts Dartmouth, USA)	4928
A Two-layer and Multi-strategy Framework for Human Activity Recognition using smartphone	
Qian Guo (University of Science and Technology of China, P.R. China), Bin Liu (University of Science and Technology of China, P.R. China), Chang Wen Chen (State University of New York at Buffalo, USA)	4934
ICC'16 SAC-8 SN: IEEE ICC 2016 SAC Social Networking Social Dynamics	
Group Mobility: Detection, Tracking and Characterization Ivan Nunes (Federal University of Minas Gerais, Brazil), Pedro O. S. Vaz de Melo (Federal University of Minas Gerais, Brazil), Antonio A.F. Loureiro (Federal University of Minas Gerais,	
Brazil)	4940
Resource Allocation for Wireless Caching in Socially-Enabled D2D Communications	
Huaqing Wu (Beijing University of Posts and Telecommunications, P.R. China), Li Wang (Beijing University of Posts and Telecommunications, P.R. China), Tommy Svensson (Chalmers University of Technology, Sweden), Zhu Han (University of Houston, USA)	4946
Steering Information Cascades in a Social System by Selective Rewiring and Incentive Seeding	
Jen-Hao Hsiao (Graduate Institute of Communication Engineering, National Taiwan University, Taiwan), Kwang-Cheng Chen (National Taiwan University, Taiwan)	4952
Modeling and Estimating the Structure of D2D-Based Mobile Social Networks Sigit Pambudi (North Carolina State University, USA), Wenye Wang (NC State University, USA), Cliff Wang (Army Research Office, USA)	4958
How the Anti-Rumor Kills the Rumor: Conflicting Information Propagation in Networks	
Jie Wang (North Carolina State University, USA), Wenye Wang (NC State University, USA), Cliff Wang (Army Research Office, USA)	4964
ICC'16 SAC-7 SSC: IEEE ICC 2016 SAC Satellite and Space Communications	
Communications (Interactive)	
Four-Dimensional Constellations for Dual-Polarized Satellite Communications	
Nicolò Mazzali (University of Luxembourg, Luxembourg), Farbod Kayhan (University of Luxembourg, Luxembourg), Bhavani Shankar Mysore R (Interdisciplinary Centre for Security,	
Reliability and Trust & University of Luxembourg, Luxembourg)	4970
Svilen Dimitrov (German Aerospace Center (DLR), Germany)	4976

ICC'16 SPC: IEEE ICC 2016 - Signal Processing for Communications Symposium

Channel Identification and Shortening

Exploiting Spectral Regrowth for Joint PA Characteristics Estimation and Channel Identification Kuang Cai (Stevens Institute of Technology, USA), Khaled Amleh (Penn State Mont Alto, USA), Hongbin Li (Stevens Institute of Technology, USA)	4982
Channel Estimation Techniques for Diffusion-Based Molecular Communications	
Vahid Jamali (Friedrich-Alexander-University Erlangen-N"urnberg, Germany), Arman Ahmadzadeh (University of Erlangen-Nuremberg, Germany), Christophe Jardin (Bioinformatics, Germany), Heinrich Sticht (Bioinformatics, Germany), Robert Schober (University of British Columbia, Canada)	4987
Design and Analysis Framework for Sparse FIR Channel Shortening	
Abubakr O. Al-Abbasi (Qatar University, Qatar), Ridha Hamila (Qatar University, Qatar), Waheed U. Bajwa (Rutgers University, USA), Naofal Al-Dhahir (University of Texas at Dallas, USA)	4994
A Low-complexity Channel Shortening Receiver with Diversity Support for Evolved 2G Devices	
Sha Hu (Lund University, Sweden), Harald Kröll (ETH Zurich, Switzerland), Qiuting Huang (ETH Zurich, Switzerland), Fredrik Rusek (Lund University, Sweden)	5001
Characterization of HPA Using Two Dimensional General Memory Polynomial for Dual Band Carrier Aggregated MIMO-OFDM Systems	
Parag Aggarwal (Indraprastha Institute of Information Technology, Delhi (IIIT-Delhi), India), Vivek A Bohara (Indraprastha Institute of Information Technology, Delhi (IIIT-Delhi), India)	5008

ICC'16 WCS: IEEE ICC 2016 - Wireless Communications Symposium

Network Coding

Network coding efficiency in the presence of an intermittent backhaul network	
Stefan Achleitner (Pennsylvania State University, USA), Tom La Porta (Pennsylvania State	
University, USA), Srikanth V. Krishnamurthy (University of California, Riverside, USA), Victor Quizhpi (US Army CERDEC, USA)	5015
An Efficient Network Coding Scheme for Two-way Communication with ARQ Feedback	
Hongyi Zhu (Purdue University, USA), Besma Smida (University of Illinois at Chicago, USA), David Love (Purdue University, USA)	5021
Physical-layer Network Coding: A High Performance PHY-layer Decoder	
Shakeel Salamat Ullah (The Chinese University of Hong Kong, Hong Kong), Soung Chang Liew (The Chinese University of Hong Kong, Hong Kong), Lu Lu (The Chinese University of Hong Kong, Hong Kong), Lizhao You (The Chinese University of Hong Kong, Hong Kong)	. 5027
On the Impact of Lossy Channels in Wireless Edge Caching	
Angela Sara Cacciapuoti (University of Naples Federico II, Italy), Marcello Caleffi (University of Naples "Federico II", Italy), Mingyue Ji (University of Southern California, USA), Jaime Llorca (Bell Labs, Alcatel-Lucent, USA), Antonia Tulino (Bell Laboratories & Università degli studi di Napoli, USA)	. 5033
Rate Aware Network Codes For Coordinated Multi Base-Station Networks	
Mohammed Saif (King Fahd University of Petroleum and Minerals, Saudi Arabia), Ahmed Douik (California Institute of Technology, USA), Sameh Sorour (King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia)	5040
, ,,	_

Interference Characterization II

Full-Duplex Cloud-RAN with Uplink/Downlink Remote Radio Head Association	
Mohammadali Mohammadi (Shahrekord University, Iran), Himal A Suraweera (University of	504
Peradeniya, Sri Lanka), Chintha Tellambura (University of Alberta, Canada)	5047
Impact of LOS/NLOS Propagation and Path Loss in Ultra-Dense Cellular Networks	
Jesús Arnau (Huawei Technologies Co. Ltd. & Mathematical and Algorithmic Sciences Lab, France Research Center, France), Italo Atzeni (Mathematical and Algorithmic Sciences Lab,	
France Research Center, Hawei Technologies Co. Ltd., France), Marios Kountouris (Huawei	
Technologies, France)	5053
Multi-Operator Spectrum Sharing using Matching Game in Small Cells Network	
Tachporn Sanguanpuak (University of Oulu, Finland), Sudarshan Guruacharya (University of	
Manitoba, Canada), Nandana Rajatheva (University of Oulu, Finland), Mehdi Bennis (Centre of	
Wireless Communications, University of Oulu, Finland), Dusit Niyato (Nanyang Technological	
University, Singapore), Matti Latva-aho (UoOulu, Finland)	5059
Throughput and Coverage for a Mixed Full and Half Duplex Small Cell Network	
Sanjay Goyal (New York University, USA), Carlo Galiotto (CTVR, Trinity College Dublin, Ireland), Nicola Marchetti (CTVR Trinity College, Ireland), Shivendra Panwar (Polytechnic	
Institute of New York University, USA)	5065
Downlink Coverage Probability of K-Tier HetNets with General Non-Uniform User Distributions	5005
Chiranjib Saha (Virginia Polytechnic Institute and State University, USA), Harpreet S Dhillon	
(Virginia Tech, USA)	5072
Interference Management I	
Total Common Alian and with Discoinal Lance National Continuing MIMO Dalor Channels	
Interference Alignment with Physical-Layer Network Coding in MIMO Relay Channels	
Tse-Tin Chan (The Chinese University of Hong Kong, Hong Kong), Tat M. Lok (The Chinese University of Hong Kong, Hong Kong)	E070
Inter-User Interference Coordination in Full-Duplex Systems Based on Geographical Context	5076
Inter-oser Interference Coordination in Full-Duplex Systems based on Geographical Context Information	
Melissa Duarte (Huawei Technologies, France), Afef Feki (France Research Center, Huawei	
Technologies, France), Stefan Valentin (Huawei Technologies, France)	5084
A Two-Stage Rank Selection Scheme in Downlink CoMP Transmission Networks	
Yong Wang (Harbin Institute of Technology, P.R. China), Ben Liang (University of Toronto,	
Canada), Yubin Xu (Harbin Institute of Technology, P.R. China)	5091
A New Energy Efficient Beamforming Strategy for MISO IFBC based on Large Systems Analysis	
Sang-Rim Lee (Korea University, Korea), Jaehoon Jung (Korea University, Korea), Haewook	
Park (Korea University, Korea), Inkyu Lee (Korea University, Korea)	5097
Analog Spatial Decoupling for Tackling the Near-Far Problem in Wirelessly Powered	
Communications	
Guangxu Zhu (The University of Hong Kong, P.R. China), Kaibin Huang (Dept. of Electrical and Electronic Engineering, The University of Hong Kong, Hong Kong)	E102
and Electronic Engineering, the oniversity of Hong Kong, Hong Kong)	5103
Massive MIMO III	
Widssive Willwice III	
Downlink Multiuser Massive MIMO in Rician Channels under Pilot Contamination	
Lou Zhao (University of New South Wales, Australia), Tao Yang (University of Technology	
Sydney, Australia), Giovanni Geraci (Bell Labs, Ireland), Jinhong Yuan (University of New	
South Wales, Australia)	5109
Modelling Interference in High Altitude Platforms with 3D LoS Massive MIMO	
Yeqing Hu (Monash University, Australia), Yi Hong (Monash University, Australia), Jamie S	F44F
Evans (University of Melbourne, Australia)	5115

Marries MIMO True Way Balan Naturalla with Channel Impactions	
Massive MIMO Two-Way Relay Networks with Channel Imperfections	
Shashindra Silva (University of Alberta, Canada), Gayan Amarasuriya (Southern Illinois	
University, USA), Chintha Tellambura (University of Alberta, Canada), Masoud Ardakani	E121
(University of Alberta, Canada)	3121
On the Spectral Efficiency of Space-Constrained Massive MIMO with Linear Receivers	
Jiayi Zhang (Beijing Jiaotong University, P.R. China), Linglong Dai (Tsinghua University, P.R. China), Michail Matthaiou (Queen's University Belfast, United Kingdom), Christos Masouros	
(University College London, United Kingdom), Shi Jin (Southeast University, P.R. China)	5128
Exploiting Dominant Eigendirections for Feedback Compression for FDD-based Massive MIMO	00
Systems	
Byungju Lee (Purdue University, USA), Hyoungju Ji (Seoul National University & Samsung	
Electronics. Co., Ltd, Korea), David Love (Purdue University, USA), Byonghyo Shim (Seoul	
National University, Korea)	5134
Interference Management and Coordination (Interactive)	
Multiple Association in Ultra-Dense Networks	
Mahmoud I Kamel (Concordia University, Canada), Walaa Hamouda (Concordia University,	
Canada), Amr Youssef (Concordia University, Canada)	5140
Tradeoff between PHY Caching and Core Network Caching in Cellular Networks	
Wei Han (Hong Kong University of Science and Technology, Hong Kong), An Liu (Hong Kong	
University of Science and Technology, Hong Kong), Vincent Lau (Hong Kong University of	
Science and Technology, Hong Kong)	5146
RRH based Massive MIMO with "on the Fly" Pilot Contamination Control	
Ozgun Y. Bursalioglu (Docomo Innovations, USA), Chenwei Wang (DOCOMO Innovations,	
Inc., USA), Haralabos Papadopoulos (DOCOMO Innovations Inc., USA), Giuseppe Caire (Technische Universität Berlin, Germany)	5152
Oblique Projection-Based Interference Cancellation in Full-Duplex MIMO Systems	3132
Chun-Hao Fang (National Chiao Tung University, Taiwan), Pei-Rong Li (National Chiao Tung	
University, Taiwan), Kai-Ten Feng (National Chiao Tung University, Taiwan)	5159
Randomized Gaussian Message Passing for Scalable Uplink Signal Processing in C-RANs	0_00
Congmin Fan (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)	5164
Optimizing Power and User Association for Energy Saving in Load-Coupled Cooperative LTE	
Lei You (Linköping University, Sweden), Lei Lei (Linköping University, Sweden), Di Yuan	
(Linköping University, Sweden)	5170
ICC'16 AHSN: IEEE ICC 2016 Ad-hoc and Sensor Networking Symposium	
Power Control	
A Relay Subset Selection Scheme for Wireless Sensor Networks Based on Channel State Information	
Seyed Hamed Mousavi (Shiraz University of Technology, Iran), Javad Haghighat (Shiraz	
University of Technology, Iran), Walaa Hamouda (Concordia University, Canada)	5176
Wireless Power Transfer for Access Limited Wireless Underground Sensor Networks	5170
Steven Kisseleff (Friedrich-Alexander-University Erlangen-Nürnberg (FAU), Germany),	
Xiaoyang Chen (University of Erlangen-Nuremberg, Germany), Ian F. Akyildiz (Georgia	
Institute of Technology, USA), Wolfgang Gerstacker (University of Erlangen-Nuernberg,	
Germany)	5182

Dynamic Power Control and Optimization Scheme for QoS-Constrained Cooperative Wireless Sensor Networks
Ziqiang Feng (University of Cambridge, United Kingdom), Ian James Wassell (University of Cambridge, United Kingdom)5189
Maximum Likelihood Estimation of Clock Skew in Sparse One-Way Packet Transmissions for Machine Type Communication Applications
Atanu Guchhait (Samsung R&D Institute India - Bangalore, India)
Dynamic Sensing Scheduling to Prolong Network Lifetime under Practical Requirements
Yang Peng (University of Washington Bothell, USA), Zi Li (Iowa State University, USA),
Wensheng Zhang (Iowa State University, USA), Daji Qiao (Iowa State University, USA) 5201
ICC'16 CISS: IEEE ICC 2016 Communication and Information Systems Security Symposium
Physical Layer Security
Joint Power and Access Control for Physical Layer Security in D2D Communications Underlaying Cellular Networks
Rongqing Zhang (Colorado State University, USA), Xiang Cheng (Peking University, P.R. China), Liuqing Yang (Colorado State University, USA)
Ergodic Secrecy Capacity Analysis for Cooperative Communication with Relay Selection Under Non-Identical Distribution
Esa R. Alotaibi (University of Manchester, United Kingdom), Khairi A. Hamdi (University of Manchester, United Kingdom)5214
Conditional Constellation Based-Distinct Native Attribute (CB-DNA) Fingerprinting for Network Device Authentication
Timothy J Carbino (Air Force Institute of Technology, USA), Michael A Temple (Air Force Institute of Technology, USA), Juan Lopez, Jr. (Air Force Institute of Technology, USA) 5220 Secrecy Performance of the Artificial Noise Assisted Broadcast Channel with Confidential
Messages and External Eavesdroppers
Hui Chen (Beijing University of Posts and Telecommunications (BUPT), P.R. China), Xiaofeng Tao (Beijing University of Posts and Telecommunications, P.R. China), Na Li (Beijing University of Posts and Telecommunications, P.R. China), Xiangling Li (Beijing University of Post and Telecommunications, P.R. China)
Outage Constrained Secrecy Rate Maximization Using Artificial-Noise Aided Beamforming and Cooperative Jamming
Lin Hu (University of Electronic Science and Technology of China, P.R. China), Bin Wu (Tian jin University, P.R. China), Tang Jie (UESTC in China, P.R. China), Fei Pan (University of Electronic Science and Technology of China, P.R. China), Hong Wen (UESTC, P.R. China)
ICC'16 CQRM: IEEE ICC 2016 - Communication QoS, Reliability and Modeling Symposium
Tools and Methods
Stochastic Geometry Analysis and Optimization of Uplink Cellular Networks with Fractional Power Control and Optimum Combining
Peng Guan (Huawei Technologies, P.R. China), Marco Di Renzo (Paris-Saclay University / CNRS, France)5237
Wired and Wireless Network Cooperation for Quick Recovery
Yu Nakayama (The University of Tokyo, Japan), Kazuki Maruta (Kyushu University, Japan), Takuya Tsutsumi (Neco9 Laboratories, Japan), Kaoru Sezaki (University of Tokyo, Japan) 5243

Delay-Bounded Transport using Rateless Codes for I/O Bus over Wireless Ethernet	
Yuki Hayashi (NEC Corporation, Japan), Jun Suzuki (NEC Corporation, Japan), Masaki Kan (NEC Corporation, Japan), Takashi Yoshikawa (NEC Corporation, Japan), Shinya Miyakawa (NEC Corporation, Japan)	5249
The Stability Region of the Two-User Broadcast Channel	3213
Nikolaos Pappas (Linköping University, Sweden), Marios Kountouris (Huawei Technologies, France)	. 5255
Intervehicular Communication Systems under Co-Channel Interference and Outdated Channel Estimates	
Petros S. Bithas (University of Piraeus, Greece), George Efthymoglou (University of Piraeus, Greece), Athanasios G. Kanatas (University of Piraeus, Greece)	5261
ICC'16 CRN: IEEE ICC 2016 - Cognitive Radio and Networks Symposium Emerging Topics, Services, and Applications II (Interactive)	
Performance Analysis of Hybrid Cognitive Radio Systems with Imperfect Channel Knowledge Ankit Kaushik (Karlsruhe Institute of Technology, Germany), Shree Krishna Sharma	
(University of Luxembourg, Luxembourg), Symeon Chatzinotas (University of Luxembourg, Luxembourg, Luxembourg), Björn Ottersten (University of Luxembourg, Luxembourg), Friedrich K. Jondral (Karlsruhe Institute of Technology, Germany)	. 5267
Analysis of an Interruption-Based Priority for Multi-Class Secondary Users in Cognitive Radio Networks	
Ahmed Zakariya (Faculty of Engineering, Alexandria University, Alexandria, Egypt), Sherif Rabia (Faculty of Engineering, Alexandria University, Egypt)	. 5274
Impact of Hardware Impairment on Spectrum Underlay Cognitive Multiple Relays Network	
HaiYan Huang (XiDian University, P.R. China), Zan Li (Xidian University, P.R. China), Bo Ai (Beijing Jiaotong University & State Key Lab of Rail Traffic Control and Safety, P.R. China), Gongpu Wang (Beijing Jiaotong University, P.R. China), Mohammad S. Obaidat (Fordham University, USA)	. 5280
The Achievable Capacity Scaling Laws of 3D Cognitive Radio Networks	
Zhiqing Wei (Beijing University of Posts and Telecommunications, P.R. China), Zhiyong Feng (Beijing University of Posts and Telecommunications, P.R. China), Xin Yuan (Beijing University of Post and Telecommunications, P.R. China), Xinyu Feng (Beijing University of Posts and Telecommunication, P.R. China), Qixun Zhang (Beijing University of Posts and Telecommunications, P.R. China), Xin Wang (Stony Brook University, USA)	. 5286
Reconstruction of a Gaussian Random Field with Application to Spectrum Cartography	
Geethu Joseph (Indian Institute of Science, India), Chandra R Murthy (Indian Institute of Science, India)	. 5292
ICC'16 CSSMA: IEEE ICC 2016 - Communications Software, Services and Multimedia Applications Symposium Multimedia Streaming and Video Delivery	
Large-scale Characterization of Comprehensive Online Video Service in Mobile Network	
Chenyu Li (Beijing University of Posts and Telecommunications, P.R. China), Jun Liu, Dr. (Beijing University of Posts and Telecommunications, P.R. China)	. 5298
Energy-Aware Concurrent Multipath Transfer for Real-Time Video Streaming to Multihomed Terminals	-
Jiyan Wu (Singapore University of Technology and Design, Singapore), Ming Wang (Beijing University of Posts and Telecommunications, P.R. China), Chau Yuen (Singapore University of Technology and Design, Singapore)	. 5305

	Quality Improvement and Overhead Reduction for Soft Video Delivery	
	Takuya Fujihashi (Osaka University, Japan), Toshiaki Koike-Akino (Mitsubishi Electric Research Laboratories (MERL), USA), Takashi Watanabe (Osaka University, Japan), Philip Orlik (Mitsubishi Electric Research Laboratories, USA)	5311
	Provisioning Cost-effective Mobile Video Caching	
	Seyed Ehsan Ghoreishi (King's College London, United Kingdom), Vasilis Friderikos (King's College London, United Kingdom), Dmytro Karamshuk (King's College London, United Kingdom), Nishanth Sastry (King's College London & Kings College London, United Kingdom), Hamid Aghvami (King's College London, United Kingdom)	. 5317
	Applicative-Layer Multipath for Low-Latency Adaptive Live Streaming	
	Patrice Houzé (Orange Labs, France), Emmanuel Mory (Orange Labs, France), Geraldine Texier (IRISA/TELECOM Bretagne/ReOP & Institut Mines-Telecom/Telecom Bretagne/RSM, France), Gwendal Simon (Institut Mines Telecom - Telecom Bretagne, France)	5324
ICC'16 C	CT: IEEE ICC 2016 - Communications Theory	
	An Efficient Exhaustive Search Algorithm for Elementary Trapping Sets of Variable-Regular	
	LDPC Codes Yoones Hashemi Toroghi (Carleton University, Canada), Amir Banihashemi (Carleton	
	University, Canada)	5331
	Practical LDPC Encoders Robust to Hardware Errors	
	Elsa Dupraz (Telecom Bretagne, France), Valentin Savin (CEA LETI, France), Satish Grandhi (University College Cork, Ireland), Emanuel M. Popovici (University College Cork, Ireland), David Declercq (ETIS ENSEA/univ. of Cergy-Pontoise/CNRS, France)	. 5338
	Fully Parallel Window Decoder Architecture for Spatially-Coupled LDPC Codes	
	Najeeb UI Hassan (Dresden University of Technology, Germany), Martin Schlüter (Vodafone Chair Mobile Communications System TU Dresden, Germany), Gerhard P. Fettweis (Dresden University of Technology, Germany)	. 5344
	Performance Analysis and Optimization of LT Codes with Unequal Recovery Time and Intermediate Feedback	
	Rana Abbas (The University of Sydney, Australia), Mahyar Shirvanimoghaddam (University of Newcastle, Australia), Yonghui Li (University of Sydney, Australia), Branka Vucetic (University of Sydney, Australia)	. 5350
	Error-Correcting Functional Index Codes, Generalized Exclusive Laws and Graph Coloring	
	Anindya Gupta (Indian Institute of Science, India), B. Sundar Rajan (Indian Institute of Science, India)	5356
	GCSN: IEEE ICC 2016 - Green Communications Systems and Networks	
	Full-Duplex Machine-to-Machine Communication for Wireless-Powered Internet-of-Things Yong Xiao (University of Houston, USA), Zixiang Xiong (Texas A&M University, USA), Dusit Niyato (Nanyang Technological University, Singapore), Zhu Han (University of Houston, USA), Luiz DaSilva (Trinity College & Trinity College Dublin, Ireland) Responsive Algorithms for Handling Load Surges and Switching Links On in Green Networks	5363
	Radu Carpa (ENS de Lyon, France), Marcos Dias de Assuncao (Inria, France), Olivier Gluck (LIP, Ens Lyon, France), Laurent Lefevre (INRIA, France), Jean-Christophe Mignot (ENS Lyon, France)	5369

Joint Optimization of AN-aided Beamforming and Power Splitting Designs for MISO Secrecy Channel with SWIPT	
Zheng-yu Zhu (Zhengzhou University, P.R. China), Zheng Chu (Newcastle University, United Kingdom), Zhong-yong Wang (Zhengzhou University, P.R. China), Inkyu Lee (Korea University, Korea)	5376
Energy-Harvesting in Cooperative AF Relaying Networks Over Log-Normal Fading Channels Khaled M. Rabie (Manchester Metropolitan University, United Kingdom), Abdelhamid Salem (University of Manchester, United Kingdom), Emad Alsusa (Manchester University, United Kingdom), Mohamed-Slim Alouini (King Abdullah University of Science and Technology	
(KAUST), Saudi Arabia)	5382
Response Study	
Nguyen H. Tran (Kyung Hee University, Korea), Chuan Pham (Kyung Hee University, Korea), Shaolei Ren (University of California, Riverside, USA), Zhu Han (University of Houston, USA), Choong Seon Hong (Kyung Hee University, Korea)	5389
ICC'16 MWN: IEEE ICC 2016 - Mobile and Wireless Networking Symposium	
Heterogeneous Wireless Networks	
Self-Organizing Radio Resource Management for Next Generation Heterogeneous Wireless Networks	
Mary Adedoyin (University of Cape Town, South Africa), Olabisi Emmanuel Falowo (University of Cape Town, South Africa)	5395
Solidarity-based Cooperative Games for Resource Allocation with Macro-users Protection in HetNets	
Mouna Hajir (Ecole de Technologie Superieure, Canada), Rami Langar (UPMC - University of Paris 6, France), Francois Gagnon (Ecole de Technologie Superieure, Canada)	5401
Utility function-Based TOPSIS for Network Interface Selection in Heterogeneous Wireless Networks	
Mohamed Abdelkrim Senouci (UPEC, France), Said Hoceini (UPEC, University Paris-Est Creteil Val de Marne, France), Abdelhamid Mellouk (UPEC, University Paris-Est Creteil Val de Marne, France)	5408
An Analytical Approach to Coexisting Evaluation in Multi-RAT Heterogeneous Networks with Opportunistic CSMA/CA	
Hong-Cheng Tsai (National Chiao Tung University, Taiwan), Chun-Hung Liu (National Chiao Tung University, Taiwan), Li-Chun Wang (National Chiao Tung University, Taiwan)	5414
Dynamic Range Aware LTE Uplink P0 Optimization in HetNet Henrik M J Martikainen (Magister Solutions Ltd. & Nokia, Finland), Ingo Viering (Nomor Research GmbH, Germany), Bernhard Wegmann (Nokia, Germany)	5420
Small Cell Networks	
Offloading traffic hotspots using moving small cells Aymen Jaziri (Orange Labs & Telecom Sudparis and UPMC, France), Ridha Nasri (Orange	
Labs, France), Tijani Chahed (Telecom SudParis, France) A Full-Duplex Self-backhaul Scheme for Small Cell Networks with Massive MIMO	5426
Lei Chen (The University of British Columbia, Canada), F. Richard Yu (Carleton University, Canada), Hong Ji (Beijing University of Posts and Telecommunications, P.R. China), Victor C.M. Leung (University of British Columbia, Canada), Xi Li (Beijing University of Posts and	
Telecommunications, P.R. China), Bo Rong (Communications Research Centre, Canada)	5432
A Cheat-Proof Power Control Policy for Self-Organizing Full-Duplex Small Cells Prabodini Semasinghe (University of Manitoba, Canada), Ekram Hossain (University of	
Manitoba, Canada)	5438

Energy Efficient Power Allocation and Backhaul Design in Heterogeneous Small Cell Networks	
Hao Liu (University of British Columbia, Canada), Haijun Zhang (The University of British	
Columbia, Canada), Julian Cheng (University of British Columbia, Canada), Victor C.M. Leung (University of British Columbia, Canada)	5444
Smart Caching in Wireless Small Cell Networks via Contextual Multi-Armed Bandits	5111
Sabrina Müller (Technische Universität Darmstadt, Germany), Onur Atan (University of	
California Los Angeles, USA), Mihaela van der Schaar (UCLA, USA), Anja Klein (TU	
Darmstadt, Germany)	5449
Mobile Wireless Networks (Interactive)	
Mobile Wileless Networks (Interactive)	
Space Division Full-duplex Scheme with Joint Scheduling and Precoding Design	
Weiwei Wang (Fujitsu Research & Development Center, P.R. China), Lei Song (Fujitsu R&D Center China, P.R. China), Wang Xin (Fujitsu Research and Development Center, Beijing, P.R.	
China), Tsuyoshi Hasegawa (Fujitsu Laboratories Ltd., Japan), Yoshinori Tanaka (Fujitsu	
Laboratories Ltd., Japan), Tokuro Kubo (Fujitsu Laboratories Limited, Japan)	5456
Analysis of Human-Body Blockage in Urban Millimeter-Wave Cellular Communications	
Margarita Gapeyenko (Tampere University of Technology, Finland), Andrey Samuylov	
(Tampere University of Technology, Finland), Mikhail Gerasimenko (Tampere University of Technology, Finland), Dmitri Moltchanov (Tampere University of Technology, Finland),	
Sarabjot Singh (Intel Corporation, USA), Ehsan Aryafar (Intel Labs, USA), Shu-ping Yeh (Intel	
Corporation, USA), Nageen Himayat (Intel Corporation, USA), Sergey Andreev (Tampere	
University of Technology, Finland), Yevgeni Koucheryavy (Tampere University of Technology,	E462
Finland)	5463
Mohammad Rakib Amin (Bangladesh University of Engineering and Technology, Bangladesh),	
Mehedee Zaman (Bangladesh University of Engineering and Technology, Bangladesh), Md	
Shohrab Hossain (Bangladesh University of Engineering and Technology, Bangladesh),	
Mohammed Atiquzzaman (University of Oklahoma, USA)	5470
A Distributed Cluster Based Transmission Scheduling in VANET	
Meysam Azizian (Université de Sherbrooke, Quebec, Canada), Soumaya Cherkaoui (Université de Sherbrooke, Canada), Abdelhakim Hafid (University of Montreal, Canada)	5476
A Flooding-Based Solution to Improve Location Services in VANETs	5470
Selma Boumerdassi (Conservatoire National des Arts et Métiers, France), Eric Renault	
(Institut Mines-Telecom Telecom SudParis & Samovar UMR CNRS 5157, France)	5482
ICC'16 NGN: IEEE ICC 2016 - Next-Generation Networking and Internet Sympo	sium
Centralized-RAN and Cloud-RAN Architectures	
Cost-Constrained Delay Minimization of C-RAN and its Multiplexing Gain	
Jian Wu (University of California, Davis, USA), Dipak Ghosal (University of California, Davis,	
USA)	5488
Multicast Beamforming for Wireless Backhaul with User-centric Clustering in Cloud-RANs	
Bin Hu (Shanghai Jiao Tong University, P.R. China), Cunqing Hua (Shanghai Jiao Tong	
University, P.R. China), Cailian Chen (Shanghai Jiao Tong University, P.R. China), Xinping Guan (Shanghai Jiao Tong University, P.R. China)	5404
Channel Estimation for mmWave Massive MIMO Based Access and Backhaul in Ultra-Dense	ノマフサ
Network	
Zhen Gao (Tsinghua University, P.R. China), Linglong Dai (Tsinghua University, P.R. China),	
Zhaocheng Wang (Tsinghua University, P.R. China)	5500

Chia-Yu Chang (EURECOM, France), Ruggero Schiavi (EURECOM, France), Navid Nikaein (Eurecom, France), Thrasyvoulos Spyropoulos (EURECOM, France), Christian Bonnet (Institut Eurecom, France)	5506
Dynamic Resource Allocation for Cloud-RAN in LTE with Real-Time BBU/RRH Assignment	. 3300
Mohammed Yazid Lyazidi (Université Pierre et Marie Curie & LIP6, France), Nadjib Aitsaadi	
(LiSSi - University of Paris-Est Creteil (UPEC), France), Rami Langar (UPMC - University of Paris 6, France)	5513
Next-generation Internet Applications and Services (Interactive)	
Coalition-based Energy Efficient Offloading Strategy for Immersive Collaborative Applications in Femto-Cloud	
Shuai Yu (UPMC - Sorbonne Universite, France), Rami Langar (UPMC - University of Paris 6, France), Wenzhong Li (Nanjing University, P.R. China), Xu Chen (University of Goettingen, Germany)	5519
On Routing Algorithms for Open Marketplaces of Path Services	
Shireesh Bhat (North Carolina State University, USA), George N. Rouskas (North Carolina State University, USA)	. 5525
StreamCache: Popularity-based Caching for Adaptive Streaming over Information-Centric Networks	
Wenjie Li (Queen's University, Canada), Sharief M.A. Oteafy (Queen's University, Canada), Hossam S. Hassanein (Queen's University, Canada)	. 5531
Platoon-based Electric Vehicles Charging with Renewable Energy Supply: A Queuing Analytical Model	
Ke Zhang (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), Yan Zhang (Simula Research Laboratory and University of Oslo, Norway), Stein Gjessing (University of Oslo & Simula Research Lab., Norway), Danny H. K. Tsang (Hong Kong University of Science and Technology, Hong Kong)	. 5537
Hop-by-hop Adaptive Video Streaming in Content Centric Network	
Zhengyang Liu (Beijing University of Posts and Telecommunications, P.R. China), Yiran Wei (Beijing University of Posts and Telecommunications, P.R. China)	. 5543
ICC'16 ONS: IEEE ICC 2016 - Optical Networks and Systems Next Generation Optical Networks	
Optical Flow-Switched Transport Layer Protocol Simulation and Analysis	
Andrew Song (MIT, USA), Henna Huang (MIT, USA), Vincent Chan (Massachusetts Institute of Technology, USA)	. 5550
Green and Low-Risk Content Placement in Optical Content Delivery Networks	
Yu Wu (University of California, Davis, USA), Massimo Tornatore (Politecnico di Milano & University of California, Davis, Italy), Charles Martel (University of California, Davis, USA), Biswanath Mukherjee (University of California, Davis, USA)	. 5557
Orchestrating Multicast-Oriented NFV Trees in Inter-DC Elastic Optical Networks	
Menglu Zeng (University of Science and Technology of China, P.R. China), Wenjian Fang (University of Science and Technology of China, P.R. China), Joel J. P. C. Rodrigues (Instituto de Telecomunicações, University of Beira Interior, Portugal), Zuqing Zhu (University of Science and Technology of China, P.R. China)	5563
Science and reciniology of china, rate china,	. 5505

Impact of Packetization and Functional Split on C-RAN Fronthaul Performance

Exploiting the Transmission Layer in Logical Topology Design of Flexible-Grid Optical Networks	
Arsalan Ahmad (National University of Science and Technology (NUST), Pakistan), Andrea	
Bianco (Politecnico di Torino, Italy), Hussein Chouman (Telcom Paristech, France), Vittorio	
Curri (Politecnico di Torino, Italy), Guido Marchetto (Politecnico di Torino, Italy), Sarosh Tahir	
(Politecnico Di Torino, Italy)	5569
Balancing the Demands of Reliability and Security with Linear Network Coding in Optical Networks	
Anna Engelmann (Technische Universität Carolo-Wilhelmina zu Braunschweig, Germany),	
Admela Jukan (Technische Universität Carolo-Wilhelmina zu Braunschweig, Germany)	5575
ICC'16 SAC-2 CCN: IEEE ICC 2016 SAC Cloud Communications and Networki	ng
Cloud Network Optimization and Flow Control	
Optimal Dynamic Cloud Network Control	
Hao Feng (University of Southern California, USA), Jaime Llorca (Bell Labs, Alcatel-Lucent,	
USA), Antonia Tulino (Bell Laboratories & Università degli studi di Napoli, USA), Andreas	EEOO
Molisch (University of Southern California, USA)	5562
Ahmed M. Abdelmoniem (The Hong Kong University of Science and Technology, Hong Kong), Brahim Bensaou (The Hong Kong University of Science and Technology, Hong Kong), Amuda	FF00
James Abu (The Hong Kong University of Science and Technology, Hong Kong)	5569
Minimizing Cost of Provisioning in Fault-tolerant Distributed Data Centers with Durability Constraints	
Rakesh Tripathi (Indian Institute of Technology Guwahati, India), Vignesh S. (IIT Guwahati,	
India), Venkatesh Tamarapalli (Indian Institute of Technology Guwahati, India)	5595
Reduce Completion Time and Guarantee Throughput by Transport with Slight Congestion	3333
Zongyi Zhao (Tsinghua University, P.R. China), Qing Li (Graduate School at Shenzhen,	
Tsinghua University, P.R. China), Mingwei Xu (Tsinghua University, P.R. China), Xingang Shi	
(Tsinghua University, P.R. China), Han Zhang (Tsinghua University, Beijing, P.R. China)	5601
Improving TCP Responsiveness with Connection History in Data Center Networks	
Dagang Li (Peking University, P.R. China), Jiaxiang Wang (Peking University, P.R. China),	
Fuxing Chen (Peking University, P.R. China)	5607
ICC'16 SAC-4 E-HLT: IEEE ICC 2016 SAC E-Health	
100 10 0/10 1 E 11E11 1EEE 100 2010 0/10 E 110uitil	
a Uaalth Annliastians	
e-Health Applications	
Enabling Smartphone-centric Platforms for In-Home Rehabilitation: a Comparison among	
Movement Recognition Approaches	
Igor Bisio (University of Genoa, Italy), Alessandro Delfino (University of Genoa, Italy), Fabio Lavagetto (University of Genoa, Italy), Andrea Sciarrone (University of Genoa, Italy)	5613
WSN4QoL: WSNs for Remote Patient Monitoring in e-Health Applications	
Stefano Tennina (WEST Aquila & University of L'Aquila, Italy), Manuel Joaquim Pereira Dos	
Santos (WEST Aquila srl, Portugal), Agapi Mesodiakaki (Karlstad University, Sweden),	
Prodromos-Vasileios Mekikis (Universitat Politècnica de Catalunya (UPC), Spain), Elli Kartsakli	
(IQUADRAT, Spain), Angelos Antonopoulos (Telecommunications Technological Centre of	
Catalonia (CTTC), Spain), Marco Di Renzo (Paris-Saclay University / CNRS, France), Alkis Stavridis (Vidavo S.A., Greece), Fabio Graziosi (University of l'Aquila, Italy), Luis Alonso	
(Universidad Politecnica de Catalunya-BarcelonaTECH & Telecommunications and Aerospatial	
Engineering School of Castelldefels, Spain), Christos Verikoukis (Telecommunications	
Technological Centre of Catalonia, Spain)	5619

	An OAuth2-based Protocol with Strong User Privacy Preservation for Smart City Mobile e-Health	
	Apps	
	Victor Sucasas (Instituto de Telecomunicacoes, Portugal), Georgios Mantas (Instituto de Telecomunicações - Pólo de Aveiro, Portugal), Ayman Radwan (Instituto de	
	Telecomunicações, Portugal), Jonathan Rodriguez (Instituto de Telecomunicações, Portugal)	5625
	Blood Pressure Estimation from Photoplethysmogram using Latent Parameters	50_5
	Shreyasi Datta (TCS Innovation Labs, India), Rohan Banerjee (Tata Consultancy Services,	
	India), Anirban Dutta Choudhury (Tata Consultancy Services, India), Aniruddha Sinha (Tata	
	Consultancy Services, India), Arpan Pal (Tata Consultancy Services, India)	5631
	WiLD: Widening View Angle for Lesion Detection with Gastroscopic Images	
	Soo Yeon Sohn (Korea University, Korea), DongKyu Roy Lee (Korea University, Korea), Suk	
	Kyu Lee (LG Electronics Inc., Korea), Hwangnam Kim (Korea University, Korea), Yun Suhk	
	Suh (Seoul National University Hospital, Korea), Seong Ho Kong (Seoul National University Hospital, Korea), Hyuk Joon Lee (Seoul National University Hospital, Korea), Han Kwang Yang	
	(Seoul National University Hospital, Korea)	5638
ICC'16 S	SAC-8 SN: IEEE ICC 2016 SAC Social Networking	
Drivoov on	nd Security	
Privacy ar	iu Security	
	Effective Social Network Quarantine with Minimal Isolation Costs	
	Huanyang Zheng (Temple University, USA), Jie Wu (Temple University, USA)	5644
	Privacy-aware Social Music Playlist Generation	50
	Felix Beierle (Telekom Innovation Laboratories / Technische Universität Berlin, Germany), Kai	
	Grunert (Telekom Innovation Laboratories / Technische Universität Berlin, Germany),	
	Sebastian Göndör (Telekom Innovation Laboratories / Technische Universität Berlin,	
	Germany), Axel Küpper (Telekom Innovation Laboratories / Technische Universität Berlin,	ECEO.
	Germany)	5650
	Satyajayant Misra (New Mexico State University, USA), Abu Saleh Md Tayeen (New Mexico	
	State University, USA), Wen Xu (New Mexico State University, USA)	5657
	Algorithm to Trade Off between Utility and Privacy Cost of Online Social Search	
	Yan Li (The University of Hong Kong, Hong Kong), Zhiyi Lu (The University of Hong Kong,	
	Hong Kong), Victor O. K. Li (University of Hong Kong, P.R. China)	5663
	Detecting Spam Comments Posted in Micro-Blogs Using the Self-Extensible Spam Dictionary	
	Chenwei Liu (Shenzhen Graduate School of Peking University, P.R. China), Jiawei Wang	
	(Peking University, P.R. China), Kai Lei (Peking University, P.R. China)	5669
ICC'16 S	SPC: IEEE ICC 2016 - Signal Processing for Communications Symposi	um
Cooperati	ve and Heterogeneous Networks	
	Low-Complexity Relay Precoder Designs for Two-Way AF MIMO Relay Systems	
	Chin-Liang Wang (National Tsing Hua University, Taiwan), Jyun-Yu Chen (National Tsing Hua University, Taiwan), Yi-Hsuan Peng (National Tsing Hua University, Taiwan)	5676
	A Load-Balancing Semi-Matching Approach for Resource Allocation in Cognitive Radio Networks	
	Georgios I Tsiropoulos (National Technical University of Athens, Greece), Ming Zeng (Beijing	
	University of Posts and Telecommunications, P.R. China), Octavia A. Dobre (Memorial	F.C.
	University, Canada), Mohamed Hossam Ahmed (Memorial University, Canada)	5682
	Adaptive Variable-Length Feedback using Wireless Power Transfer for Opportunistic Beamforming	
	Constantings Psomas (University of Cyprus, Cyprus), Joannis Krikidis (University of Cyprus,	

..... 5688

Cyprus)

	Hsin-Jui Chou (Academia Sinica, Taiwan), Ronald Y. Chang (Academia Sinica, Taiwan)	5694
	Communication Theoretic Inference on Heterogeneous Data	
	Kwang-Cheng Chen (National Taiwan University, Taiwan), Baturalp Mankır (National Taiwan University, Taiwan), Shao-Lun Huang (Massachusetts Institute of Technology, USA), Lizhong Zheng (Massachusetts Institute of Technology, USA), H. Vincent Poor (Princeton University,	F704
	USA)	5701
ICC'16 V	NCS: IEEE ICC 2016 - Wireless Communications Symposium	
Estimatio	n and Detection II	
	Multi Detector Fusion of Dynamic TOA Estimation using Kalman Filter	
	Vijaya Yajnanarayana (KTH Royal Institute of Technology, Sweden), Satyam Dwivedi (KTH	
	Royal Institute of Technology, Sweden), Peter Händel (Royal Institute of Technology,	
	Sweden)	5707
	Bit Error Probability for Pilot-Symbol Aided Channel Estimation in FBMC-OQAM	
	Ronald Nissel (TU Wien, Austria), Markus Rupp (TU Wien, Austria)	5713
	Low-complexity Direction Estimation Techniques for Fast Beamforming Training in Millimeter Wave Multiantenna Systems	
	Chandrashekhar Thejaswi Pataguppe Suryanarayan Bhat (Samsung R&D Institute India,	
	Bangalore, India), Kiran Bynam (Samsung, India), Jinesh P Nair (Samsung India Software	
	Operations & Samsung Advanced Institute of Technology India Lab, India), Sujit Jos	
	(Samsung Advanced Institute of Technology India Labs & Samsung R&D Institute Bangalore, India), Ashutosh Deepak Gore (Samsung Advanced Institute of Technology, India)	5719
	A Design of Multiuser Detection and Decoding for Subcarrier Hopping Multiple Access based on	3713
	Coded OFDM	
	Yuta Hori (Yokohama National University, Japan), Hideki Ochiai (Yokohama National University, Japan)	5725
	Reduced Complexity MMSE Beamforming for Two-way AF Relaying Systems with Multiple Antennas	
	Changick Song (Korea National University of Transportation, Korea), Haewook Park (Korea	
	University, Korea), Hoon Lee (Korea University, Korea), Inkyu Lee (Korea University, Korea)	5731
Interferen	ce Management II	
	Index modulated OFDM with Intercarrier Interference Cancellation	
	Yuke Li (Institute of Automation, Chinese Academy of Sciences, P.R. China), Meng Zhang	
	(Peking University, P.R. China), Xiang Cheng (Peking University, P.R. China), Miaowen Wen	
	(South China University of Technology, P.R. China), Liuqing Yang (Colorado State University,	
	USA)	5737
	A Cooperative Online Learning Scheme for Resource Allocation in 5G Systems	
	Ismail AlQerm (KAUST, Saudi Arabia), Basem Shihada (KAUST, Saudi Arabia)	5743
	DNA-GA: A New Approach of Network Performance Analysis	
	Ming Ding (Data 61, Australia), David López-Pérez (Bell Labs Alcatel-Lucent, Ireland), Guoqiang Mao (The University of Technology, Sydney, Australia), Zihuai Lin (University of Sydney, Australia)	5750
	Monotonic Optimization for Power Control of D2D Underlay with Partial CSI	5,50
	Huan Tang (University of California, Davis, USA), Zhi Ding (UC Davis, USA)	5757
	User Pairing Algorithm with SIC in Non-Orthogonal Multiple Access System	3,3,
	Han Zhang (Harbin Institute of Technology, P.R. China), Dekun Zhang (Harbin Institute of	
	Technology & Harbin Institute of Technology, P.R. China), Weixiao Meng (Harbin Institute of	
	Technology, P.R. China), Cheng Li (Memorial University of Newfoundland, Canada)	5763

Interference-Aware D2D Mode Selection in Hybrid MIMO Cellular Networks

Physical Layer Security

	Secrecy Multiuser Diversity for Distributed Antenna Systems from the Perspective of User- Scaling Law	
	Inkyu Bang (Korea Advanced Institute of Science and Technology, Korea), Su Min Kim (Korea Polytechnic University, Korea), Dan Keun Sung (Korea Advanced Institute of Science and Technology, Korea)	5769
	Secret Key Exchange under Physical Layer Security using MIMO Private Random Precoding in FDD systems	
	Hasan Taha (University of Manchester, United Kingdom), Emad Alsusa (Manchester University, United Kingdom)	5775
	RF Beamforming for Secrecy Millimeter Wave MISO-OFDM Systems	
	Yahia R. Ramadan (University of Texas at Dallas, USA), Ahmed S. Ibrahim (Florida International University, USA), Mohamed Khairy (Elec. and Comm. Dept., Faculty of Eng., Cairo Univ, Egypt)	5781
	Energy-Based Anchor Node Selection for IoT Physical Layer Authentication	
	Gianluca Caparra (University of Padova, Italy), Marco Centenaro (University of Padova, Italy), Nicola Laurenti (University of Padova & CNIT, Italy), Stefano Tomasin (University of Padova, Italy), Lorenzo Vangelista (University of Padova, Italy)	5787
	A Novel Nonlinear Secure Transmission Design for MU-MISO Systems with Limited Feedback	
	Liang Sun (Beihang University, P.R. China), Rui Wang (The South University of Science and Technology of China, P.R. China), Victor C.M. Leung (University of British Columbia, Canada)	5793
Recent Ad	vances in MIMO and OFDM (Interactive)	
	Generalized Spatial Modulation with Transmit Antenna Grouping for Correlated Channels	
	Peizhong Ju (Peking University, P.R. China), Meng Zhang (Peking University, P.R. China), Xiang Cheng (Peking University, P.R. China), Chengxiang Wang (Heriot-Watt University,	5800
	Analog Equalization and Low Resolution Quantization in Strong Line-of-Sight MIMO Communication	
	Xiaohang Song (TU Dresden, Germany), Tim Hälsig (Universität der Bundeswehr München, Germany), Wolfgang Rave (Dresden University of Technology, Germany), Berthold Lankl (University of Federal Armed Forces Munich, Germany), Gerhard Fettweis (Technische Universität Dresden, Germany)	5806
	QoS-Constrained Transceiver Design and Power Splitting for Downlink Multiuser MIMO SWIPT Systems	
	Anming Dong (Shandong University, P.R. China), Haixia Zhang (Shandong University, P.R. China), Dalei Wu (The University of Tennessee at Chattanooga, USA), Dongfeng Yuan (Shandong University, P.R. China)	5813
	Out-of-Band Radiation Measure for MIMO Arrays with Beamformed Transmission	
	Christopher Mollén (Linköpings Universitet, Sweden), Ulf Gustavsson (Ericsson AB, Sweden), Thomas Eriksson (Chalmers University of Technology, Sweden), Erik G. Larsson (Linköping University, Sweden)	5819
	End-to-End Outage Probability Analysis for Multi-Source Multi-Relay Systems	
	Jiguang He (University of Oulu, Finland), Iqbal Hussain (Sweden, Sweden), Markku Juntti (University of Oulu, Finland), Tad Matsumoto (Japan Advanced Institute of Science and Technology, Japan)	5825
	Phase Noise Scaling and Tracking in OFDM Multi-user Beamforming Arrays	
	Antonio Puglielli (Berkeley Wireless Research Center, USA), Greg LaCaille (UC Berkeley, USA), Ali Niknejad (UC Berkeley, USA), Gregory Wright (Alcatel-Lucent Bell Labs, USA),	5831
	Joint Transmit and Receive Beamforming for Multi-Relay MIMO-OFDMA Cellular Networks	
	Kent Tsz Kan Cheung (University of Southampton & Mobile Virtual Centre of Excellence, United Kingdom), Shaoshi Yang (University of Southampton, United Kingdom), Lajos Hanzo	5837

Global Optimization of Precoder for Multi-Antenna Secure Cognitive Radios with Finite-Alphabet Inputs and Statistical CSI

Weiliang Zeng (Qualcomm Research, USA), Yahong Rosa Zheng (Missouri University of Science and Technology, USA), Chengshan Xiao (Missouri University of Science and Technology, USA) 5843