

2015 IEEE Wireless Communications and Networking Conference Workshops

(WCNCW 2015)

**New Orleans, Louisiana, USA
9-12 March 2015**



**IEEE Catalog Number: CFP1543J-POD
ISBN: 978-1-4799-8761-0**

Program

2015 IEEE Wireless Communications and Networking Conference Workshops (WCNCW)

IEEE WCNC 2015 - Workshop - 5GArch: 2015 IEEE Wireless Communications and Networking Conference (WCNC) - Workshops - 5G Architecture

Interference and mobility management in 5G

<i>Software Defined Network for Multi-tenancy Resource Sharing in Backhaul Networks</i> Jialu Lun (University of York, United Kingdom), David Grace (University of York, United Kingdom)	1
<i>Software Defined Air Interface: A Framework of 5G Air Interface</i> Qi Sun (China Mobile Research Institute, P.R. China), Chih-Lin I (China Mobile Research Institute, P.R. China), Shuangfeng Han (China Mobile, P.R. China), Zhikun Xu (China Mobile Research Institute, P.R. China), Zhengang Pan (University of Hong Kong, Hong Kong)	6
<i>Access Independent Mobile Core Networks</i> Colin Kahn (Alcatel-Lucent, USA), Harish Viswanathan (Alcatel-Lucent, USA)	12

Novel Architectural design and optimization for 5G

<i>An Improved Graph Coloring Based Small Cell Discovery Scheme in LTE Hyper-Dense Networks</i> Shuai Peng (Southeast University, P.R. China), En Tong (Southeast University, P.R. China), Huilin Jiang (Southeast University, P.R. China), Zhiwen Pan (Southeast University, P.R. China), Nan Liu (Southeast University, P.R. China), Xiaohu You (National Mobile communication Research Lab., Southeast University, P.R. China)	17
<i>Indoor Planning Optimization of Ultra-dense Cellular Networks at High Carrier Frequencies</i> Saray Renilla Lamas (Aalto University, Finland), David González G (Aalto University, Finland), Jyri Hämäläinen (Aalto University, Finland)	23
<i>A New Inter-Cell Selection Strategy for Reducing Ping-Pong Effect</i> Soumaya Hamouda (Ecole Supérieure des Communications de Tunis, Tunisia), Imen Ben Chaabane (Supcom, Tunisia), Sami Tabbane (Ecole Supérieure des Communications de Tunis, Tunisia)	29

IEEE WCNC 2015 - Workshop - E2IoT: 2015 IEEE Wireless Communications and Networking Conference (WCNC) - Workshop - Energy Efficiency in the Internet of Things, and Internet of Things for Energy Efficiency

Energy Efficiency Techniques in IoT

<i>System Characterization of a Cooperative transmission system Approach to Industrial Wireless Communication</i> Yosuke Saito (Meiji University, Japan), Tetsushi Ikegami (Meiji University, Japan)	35
<i>Towards Distributing Block Ciphers Computations</i> Andrea G. Forte (AT&T Labs & Security Research Center, USA), Gianluigi Ferrari (University of Parma, Italy)	41

<i>Sensor Localization using Received Signal Strength Measurements for Obstructed Wireless Sensor Networks with Noisy Channels</i>	
Mrinmoy Sen (Indian Institute of Engineering Science and Technology, Shibpur, India), Indrajit Banerjee (Indian Institute of Engineering Science and Technology, Shibpur, India), Mainak Chatterjee (University of Central Florida, USA), Tuhina Samanta (Indian Institute of Engineering Science and Technology, Shibpur, India)	47
<i>An Energy-Efficient Neighbor Discovery Protocol for 6LoWPAN Smart Grid Applications</i>	
Sangil Choi (University of Nebraska at Omaha, USA), Woosik Lee (Kyonggi University & Kyonggi University, Korea), Jong-Hoon Youn (University of Nebraska - Omaha, USA), Dreizan Moore (University of Nebraska at Omaha, USA), Matthew Schuette (University of Nebraska at Omaha, USA)	52

Energy Efficiency Solutions and IoT Applications

<i>IoT-based Occupancy Monitoring Techniques for Energy-Efficient Smart Buildings</i>	
Kemal Akkaya (Florida International University, USA), Ismail Güvenç (Florida International University, USA), Ramazan Savas Aygun (University of Alabama in Huntsville, USA), Nezih Pala (Florida International University, USA), Abdullah Kadri (Qatar Mobility Innovations Center, Qatar)	58
<i>A predictive data-driven model for traffic-jams forecasting in Smart Santander city-scale testbed</i>	
Jérôme Treboux (University of Applied Sciences Western Switzerland (HES-SO), Switzerland), Antonio J. Jara (HES-SO, Switzerland), Dominique Genoud (Hesso//Wallis - IIG, Switzerland), Luc Dufour (HES SO Valais, Switzerland)	64
<i>A non-intrusive model to predict the flexible energy in a residential building</i>	
Luc Dufour (HES SO Valais, Switzerland), Antonio J. Jara (HES-SO, Switzerland), Dominique Genoud (Hesso//Wallis - IIG, Switzerland), Jérôme Treboux (University of Applied Sciences Western Switzerland (HES-SO), Switzerland), Bruno Ladevie (Mines Telecom, Albi, France), Jean-Jacques Bezian (Mines Telecom, Albi, France)	69
<i>Processing Smart Plug Signals Using Machine Learning</i>	
Antonio Ridi (University of Applied Sciences Western Switzerland Fribourg, Switzerland), Christophe Gisler (University of Applied Sciences of Western Switzerland & University of Fribourg, Switzerland), Jean Hennebert (University of Fribourg, Switzerland)	75

Optimizations in MAC layer for Energy Efficiency and Security

<i>Collision-free Full-duplex UWB Communication Based on the Standard IEEE.802.15.4a</i>	
Dan Kreiser (IHP, Germany), Olonbayar Sonom (IHP, Germany)	81
<i>Fast Join and Synchronization Schema in the IEEE 802.15.4e MAC</i>	
Elvis Vogli (Politecnico di Bari, Italy), Giuseppe Ribezzo (Politecnico di Bari, Italy), Luigi Alfredo Grieco (Politecnico di Bari, Italy), Gennaro Boggia (Politecnico di Bari, Italy)	85
<i>An Enhanced Communication Protocol for Anonymity and Location Privacy in WSN</i>	
Abdelshakour Abuzneid (University of Bridgeport, USA), Tarek Sobh (University of Bridgeport, USA), Miad Faezipour (University of Bridgeport, USA)	91

IEEE WCNC 2015 - Workshop - NGWiFi: 2015 IEEE Wireless Communications and Networking Conference (WCNC) - Workshop - Next Generation WiFi Technology

QoS and Resource Management

<i>Performance Evaluation of Stream Control Transport Protocol over IEEE 802.11ac Networks</i>	
Rung-Shiang Cheng (Kun Shan University, Taiwan)	97

<i>Efficient and Scalable SPARQL Query Processing with Transformed Table</i> Sheng-Wei Huang (National Cheng Kung University, Taiwan), Chia-Ho Yu (National Cheng Kung University, Taiwan), Ce-Kuen Shieh (National Cheng Kung University, Taiwan), Ming-Fong Tsai (Feng Chia University, Taiwan)	103
<i>Improving VHT MU-MIMO Communications by Concatenating Long Data Streams in Consecutive Groups</i> Aitizaz Uddin Syed (Simon Fraser University, Canada), Ljiljana Trajković (Simon Fraser University, Canada)	107
<i>Low Complexity Higher Order QAM Modulation for IDMA system</i> Tran Thi Thao Nguyen (Kyushu Institute of Technology, Japan), Leonardo Jr. Lanante (Kyushu Institute of Technology, Japan), Yuhei Nagao (Kyushu Institute of Technology, Japan), Hiroshi Ochi (Kyushu Institute of Technology, Japan)	113

MAC Technologies

<i>CSMA/CA with RTS-CTS Overhead Reduction for M2M Communication</i> Baher Mawlawi (CEA - LETI, France), Jean-Baptiste Doré (CEA, France), Nikolai Lebedev (CPE Lyon / INRIA / University of Lyon, France), Jean-Marie Gorce (INSA-Lyon, France)	119
<i>Throughput Analysis of Wireless Networks with Tethering Function</i> Huy Minh Bui (Chiba University, Japan), Kosuke Sanada (Chiba University, Japan), Nobuyoshi Komuro (Chiba University, Japan), Shigeo Shioda (Chiba University, Japan), Shiro Sakata (Chiba University, Japan), Kazunori Miyoshi (NEC Corporation, Japan), Tutomu Murase (NEC Corporation & Tokyo Institute of Technology, Japan), Hiroo Sekiya (Chiba University, Japan)	125
<i>Survey on OFDMA based MAC Protocols for the Next Generation WLAN</i> Bo Li (Northwestern Polytechnical University, P.R. China), Qiao Qu (Northwestern Polytechnical University, P.R. China), Zhongjiang Yan (Northwestern Polytechnical University, P.R. China), Mao Yang (Northwestern Polytechnical University, P.R. China)	131
<i>An OFDMA based Concurrent Multiuser MAC for Upcoming IEEE 802.11ax</i> Qiao Qu (Northwestern Polytechnical University, P.R. China), Bo Li (Northwestern Polytechnical University, P.R. China), Mao Yang (Northwestern Polytechnical University, P.R. China), Zhongjiang Yan (Northwestern Polytechnical University, P.R. China)	136

PHY Technologies

<i>MIMO-Enabling PHY Layer Enhancement for Vehicular Ad-Hoc Networks</i> Steffen Moser (Ulm University, Germany), Luis Behrendt (Bertrandt, Germany), Frank Slomka (Ulm University, Germany)	142
<i>Energy Aware Scheduling and Queue Management for Next Generation Wi-Fi Routers</i> Husnu S Narman (University of Oklahoma, USA), Mohammed Atiquzzaman (University of Oklahoma, USA)	148
<i>A Channel Adaptive Hybrid Aggregation Scheme for Next Generation Wireless LAN</i> Yuki Chosokabe (Graduate School of Computer Science and Systems Engineering, Kyushu Institute of Technology, Japan), Tatsumi Uwai (Kyushu Institute of Technology, Japan), Yuhei Nagao (Kyushu Institute of Technology, Japan), Leonardo Jr. Lanante (Kyushu Institute of Technology, Japan), Hiroshi Ochi (Kyushu Institute of Technology, Japan)	153
<i>Cognitive-Engined Spectrum-Fragmented Synchronous MC-CDMA Based on Generalized Hadamard Codes</i> Morteza Hasani Shoreh (Sharif University of Technology, Iran), Mohammad Javad Khojasteh (Sharif University of Technology, Iran), Omid Poursaeed (Sharif University of Technology, Iran)	159

IEEE WCNC 2015 - Workshop - SmartSpectrum: 2015 IEEE Wireless Communications and Networking Conference (WCNC) - Workshop - International Workshop on Smart Spectrum

Spectrum utilization database techniques

<i>Primary and Secondary Identification using Energy Detection with Statistical Primary Information</i>	
Vannapha Southivong (The University of Electro-Communications & UEC, Japan), Takeo Fujii (The University of Electro-Communications, Japan)	164
<i>Compressive Spectrum Sensing Augmented by Geo-location Database</i>	
Zhijin Qin (Queen Mary University of London, United Kingdom), Lin Wei (Queen Mary University of London, United Kingdom), Yue Gao (Queen Mary University of London, United Kingdom), Clive Parini (QMUL, United Kingdom)	170
<i>A New Model for the Efficient Channel Utilization of Wireless Networks and Applications</i>	
Jonathan Ng (Florida State University, USA), Ming Yu (Florida State University, USA)	176

Poster session

<i>Spectrum sensing and channel utilization prediction by Nth-order Markov chain model</i>	
Ryota Nakanishi (Fukuoka University, Japan), Mai Ohta (Fukuoka University, Japan), Makoto Taromaru (Fukuoka University, Japan)	182
<i>Throughput Optimization of Wireless LANs by Surrogate Model Based Cognitive Decision Making</i>	
Mostafa Pakparvar (Ghent University, Belgium), Krishnan Chemmangat (University Ghent - iMinds, Belgium), Dirk Deschrijver (University Ghent - iMinds, Belgium), Michael T Mehari (Ghent University, Belgium), David Plets (Ghent University - iMinds, Belgium), Tom Dhaene (Ghent University, Belgium), Jeroen Hoebeke (Ghent University - iMinds, Belgium), Ingrid Moerman (Ghent University - iMinds, Belgium), Luc Martens (Ghent University, Belgium), Wout Joseph (Ghent University/iMinds, Belgium)	188
<i>A Selfishness-aware Coexistence Scheme for 802.22 and 802.11af Networks</i>	
Shuai Yuan (University of Massachusetts Lowell, USA), Lei Li (University of Massachusetts Lowell, USA), Chunxiao (Tricia) Chigan (University of Massachusetts Lowell, USA)	194
<i>A Non Preemptive MAC Protocol for Multi-Channel Cognitive Radio Networks</i>	
Miguel Luís (Universidade Nova de Lisboa, Portugal), Rodolfo Oliveira (Nova University of Lisbon, Portugal), Rui Dinis (Instituto de Telecomunicacoes & FCT-UNL, Portugal), Luis Bernardo (Universidade Nova de Lisboa, Portugal)	200
<i>Joint Margin-adaptive Allocation Scheme for Bandwidth and Power with GBR in Cooperative Networks</i>	
Min Xu (Beijing University of Posts and Telecommunications, P.R. China), Xiaofeng Tao (Beijing University of Posts and Telecommunications, P.R. China)	206
<i>Average Interference Power Constraint with Measurement-based Spectrum Database</i>	
Koya Sato (The University of Electro-Communications, Japan), Takeo Fujii (The University of Electro-Communications, Japan)	211

Spectrum measurements

<i>An Overview of the NTIA/NIST Spectrum Monitoring Pilot Program</i>	
Michael Cotton (NTIA, USA), Michael R. Souryal (National Institute of Standards and Technology, USA), Jeffery Wepman (NTIA, USA), Mudumbai Ranganathan (National Institute of Standards and Technology, USA), Julie Kub (NTIA, USA), Steve Engelking (NTIA, USA), Yeh Lo (NTIA, USA), Heather Ottke (NTIA, USA), Raian Kaiser (NTIA, USA), Douglas Anderson (NTIA, USA)	217

<i>On the Time Dynamics of Commercial Networks with Comparable Data Sets across Europe</i> Alexandros Palaivos (RWTH Aachen University, Germany), Janne Riihijärvi (RWTH Aachen University, Germany), Petri Mähönen (RWTH Aachen University, Germany), Vladimir Atanasovski (Ss Cyril and Methodius University in Skopje, Macedonia, the former Yugoslav Republic of), Liljana Gavrilovska (Ss Cyril and Methodius University - Skopje, Macedonia, the former Yugoslav Republic of), Peter Van Wesemael (IMEC, Belgium), Antoine Dejonghe (IMEC, Belgium), Peter Scheele (Bundesnetzagentur, Germany)	223
<i>Optimum Welch FFT segment size for duty cycle estimation in spectrum awareness system</i> Hiroki Iwata (Tokyo University of Agriculture and Technology, Japan), Kenta Umabayashi (Tokyo University of Agriculture and Technology, Japan), Samuli Tiiri (Tokyo University of Agriculture and Technology, Japan), Yasuo Suzuki (Tokyo University of Agriculture and Technology, Japan), Janne Lehtomäki (University of Oulu, Finland)	229

Cognitive radio networks and dynamic spectrum access

<i>A Recursive Algorithm for Joint Time-Frequency Wideband Spectrum Sensing</i> Joseph M Bruno (George Mason University, USA), Brian Mark (George Mason University, USA)	235
<i>Energy Efficient MAC Protocol for Cluster Formation in Mobile Cooperative Spectrum Sensing</i> Akif Cem Heren (Bogazici University, Turkey), Huseyin Birkan Yilmaz (Yonsei University, Yonsei Institute of Convergence Technology & Bogazici University, Korea), Tuna Tugcu (Bogazici University, Turkey)	241
<i>On the Performance of Decentralized CR MAC Protocols under Heterogeneous Channel Sensing Conditions</i> Miguel Luís (Universidade Nova de Lisboa, Portugal), Rui Luis (Universidade Nova de Lisboa, Portugal), Rodolfo Oliveira (Nova University of Lisbon, Portugal), Rui Dinis (Instituto de Telecomunicacoes & FCT-UNL, Portugal), Luis Bernardo (Universidade Nova de Lisboa, Portugal)	247
<i>QoE-Oriented WLAN: Smart Access Control Scheme for Maximising Users' QoE Satisfaction</i> Mariko Sekiguchi (Advanced Telecommunications Research International, Japan), Kazuto Yano (ATR, Japan), Tomohiro Miyasaka (ATR, Japan), Masayuki Ariyoshi (Advanced Telecommunications Research Institute International (ATR) & NEC Corporation, Japan), Tomoaki Kumagai (ATR, Japan)	253
<i>FEC Driven Network Coding Based Pollution Attack Defense in Cognitive Radio Networks</i> Ibrahim Demirdöğen (University of South Florida, USA), Lei Li (University of Massachusetts Lowell, USA), Chunxiao (Tricia) Chigan (University of Massachusetts Lowell, USA)	259

IEEE WCNC 2015 - Workshop - So-HetNets: 2015 IEEE Wireless Communications and Networking Conference (WCNC) - Workshop - Self-Organizing Heterogeneous Networks

So-HetNets

<i>A Interference-Aware Resource Allocation Scheme for Self-Organizing Heterogeneous Networks</i> Hongyan Du (University of Chinese Academy of Sciences & Wireless Communication Technology Research Center, Institute of Computing Technology, P.R. China), Yiqing Zhou (Chinese Academy of Science, P.R. China), Lin Tian (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China), Ling Liu (ICT/CAS, P.R. China), Zhanwei Hou (Institute of Computing Technology, P.R. China)	265
<i>A Quantum Inspired Reinforcement Learning Technique for Beyond Next Generation Wireless Networks</i> Sinan Nuuman (University of York, United Kingdom), David Grace (University of York, United Kingdom), Tim Clarke (York University, United Kingdom)	271

<i>Energy-Efficiency Driven Load Balancing Strategy in LTE-Wifi Interworking Heterogeneous Networks</i>	
Fanqin Zhou (Beijing University of Posts and Telecommunications, P.R. China), Lei Feng (Beijing University of Posts and Telecommunications, P.R. China), Peng Yu (Beijing University of Posts and Telecommunications, P.R. China), Li Wenjing (Beijing University of Posts and Telecommunications, P.R. China)	276
<i>Performance Analysis of Self-Organizing Heterogeneous Network with Interference Cancellation</i>	
Kang Song (Southeast University, P.R. China), Yafang Wang (Southeast University, P.R. China), Chunguo Li (Southeast University, P.R. China), Yongming Huang (Southeast University, P.R. China), Luxi Yang (Southeast University, P.R. China)	282
<i>Energy Efficient Heterogeneous Network with Self-Organized Directional Antennas</i>	
Changqing Yang (Huawei Technologies Co., Ltd., P.R. China), Yong Wu (Huawei Technologies Co., Ltd., P.R. China)	287
<i>Learning-based Anti-jamming Transmissions in Heterogenous Cognitive Radio Networks</i>	
Tianhua Chen (Xiamen University, P.R. China), Jinliang Liu (Xiamen University, P.R. China), Liang Xiao (Xiamen University, P.R. China), Lianfen Huang (XiaMen University, P.R. China)	293
<i>Prediction Based Interference Management and Distributed Trajectory Regulation in Amorphous Cells</i>	
Qian Yang (Xi'an Jiaotong University, P.R. China), Qinghe Du (Xi'an Jiaotong University, P.R. China), Pinyi Ren (Xi'an Jiaotong University, P.R. China), Li Sun (Xi'an Jiaotong University, P.R. China), Yichen Wang (Xi'an Jiaotong University, P.R. China), Gangming Lyu (Xi'an Jiaotong University, P.R. China)	299

IEEE WCNC 2015 - Workshop - WDPC: 2015 IEEE Wireless Communications and Networking Conference (WCNC) - Workshops - 2nd International Workshop on Device-to-Device and Public Safety Communications

Resource Allocation and Management

<i>Centralized and Decentralized Multi-cell D2D Resource Allocation using Flexible UL/DL TDD</i>	
Venkatasubramanian Venkatkumar (Nokia Networks - Research, Poland), Krystian Pawlak (Nokia Networks, Poland), Fernando Sanchez Moya (Nokia Networks Research, Poland)	305
<i>Delay-Aware Resource Allocation and Power Control for Device-to-Device Communications</i>	
Xiang Mi (Tsinghua University, P.R. China), Ming Zhao (Tsinghua University, P.R. China), Limin Xiao (Tsinghua University, P.R. China), Shidong Zhou (Tsinghua University, P.R. China), Jing Wang (EE. Tsinghua University, P.R. China)	311
<i>Algorithm Design and Analysis for Network Coding in D2D Underlay Communications</i>	
Abhijeet Bhorkar (INTEL Corporation, USA), Christian Ibars (Intel Corporation, USA), Pingping Zong (Intel Corporation, USA)	317

Emerging Architectures

<i>Drone-Assisted Public Safety Wireless Broadband Network</i>	
Xu Li (University of Science and Technology of China, P.R. China), Dongning Guo (Northwestern University, USA), Huarui Yin (University of Science and Technology of China, P.R. China), Guo Wei (University of Sci. & Tech. of China, P.R. China)	323
<i>UAV Assisted Heterogeneous Networks for Public Safety Communications</i>	
Arvind Merwaday (Florida International University, USA), Ismail Güvenç (Florida International University, USA)	329
<i>Dynamics of Multipath Network Coding and Multicasting in Wireless P2P Networks</i>	
Dapeng Li (Nanjing University of Posts and Telecommunications, P.R. China), Guanglin Zhang (Donghua University, P.R. China), Feng Tian (Virginia Tech, USA), Hai-tao Zhao (Nanjing University of Posts and Telecommunications, P.R. China)	335

Channel Modeling and Interference Management

<i>The Evaluation of Geometry-Based Stochastic Models for Device-to-Device Channels</i> Yan Li (Beijing Jiaotong University, P.R. China), Bo Ai (Beijing Jiaotong University, P.R. China), David G. Michelson (University of British Columbia, Canada), Siyu Lin (Beijing Jiaotong University, P.R. China), Qi Wang (Beijing Jiaotong University, P.R. China), Zhangdui Zhong (Beijing Jiaotong University, P.R. China)	341
<i>CQI-Based Interference Management Scheme for D2D Communication Underlying Cellular Networks</i> Rui Zhang (Xidian University, P.R. China), Yongzhao Li (Xidian University, P.R. China), Yuhan Ruan (Xidian University, P.R. China), Hailin Zhang (Xidian University, P.R. China), Wenhuan Wang (ZTE Corporation, P.R. China), Wenyan Wang (ZTE Corporation, P.R. China)	347

WDN-CN'15: 8th International Wireless Distributed Networks Workshop on Cooperative and Heterogeneous Cellular Networks 2015

Morning Session

<i>Comparison of CoMP and MISO for energy efficiency in HetNets</i> Anqi He (Queen Mary, University of London, United Kingdom), Lifeng Wang (University College London, United Kingdom), Yue Chen (Queen Mary University of London, United Kingdom), Miles Hansard (Queen Mary University of London, United Kingdom), Tiankui Zhang (Beijing University of Posts and Telecommunications, P.R. China)	352
<i>Joint User Association Power Control and Beamforming in HetNets Via Distributed SOCP</i> Li Lu (WNLO of HUST & Optical Lab of WuHan National, P.R. China), Yingzhuang Liu (Huazhong University of Science and Technology, P.R. China), Desheng Wang (Huazhong University of Science and Technology, P.R. China)	358
<i>Inter-Cell Interference Coordination by Horizontal Beamforming for Small Cells in 3D Cell Structure</i> Kenji Hoshino (Softbank Mobile Corp., Japan), Sho Nabatame (Softbank Mobile Corp., Japan), Atsushi Nagate (Softbank Mobile Corp., Japan), Teruya Fujii (Vodafone K.K., Japan)	364
<i>Medium Access Design for LTE in Unlicensed Band</i> Abhijeet Bhorkar (INTEL Corporation, USA), Christian Ibars (Intel Corporation, USA), Pingping Zong (Intel Corporation, USA), Apostolos Papatthanassiou (Intel Corporation & Intel Architecture Group, USA)	369

Afternoon Session

<i>Delayed Offloading Zone Associations using Cloud Cooperated Heterogeneous Networks</i> Ehab Mahmoud Mohamed (Osaka University, Japan), Kei Sakaguchi (Osaka University & Tokyo Institute of Technology, Japan), Seiichi Sampei (Osaka University, Japan)	374
<i>A Distributed Load Balancing Algorithm for LTE/LTE-A Heterogeneous Networks</i> Diego Castro-Hernandez (University of Regina, Canada), Raman Paranjape (University of Regina, Canada)	380
<i>Distributed User Association for Delay-Load Tradeoffs in Energy Harvesting Enabled HetNets</i> Hongzhang Xu (Beijing University of Posts and Telecommunications, P.R. China), Tiankui Zhang (Beijing University of Posts and Telecommunications, P.R. China), Zhimin Zeng (Beijing University of Posts and Telecommunications, P.R. China), Dantong Liu (Queen Mary University of London, United Kingdom)	386

High Efficient Network Selection Scheme Using Location Information for Heterogeneous Wireless System

Junpei Kuboniwa (Tohoku University, Japan), Yuji Miyake (Tohoku University, Japan), Suguru Kameda (Tohoku University, Japan), Akinori Taira (Mitsubishi Electric Corp. & RIEC, TOHOKU University, Japan), Hiroshi Oguma (National Institute of Technology, Toyama College, Japan), Noriharu Suematsu (Tohoku University, Japan), Tadashi Takagi (Tohoku University, Japan), Kazuo Tsubouchi (Tohoku University, Japan) 391