

The 15th International Symposium on Wireless Personal Multimedia Communications

(WPMC 2012)

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Monday, September 24

08:50 - 10:20

T1-1: Tutorial 1

Small Cells Standardization in LTE Advanced

Room: 2F Convention Hall

Chair: Hsuan-Jung Su (National Taiwan University, Taiwan)

WS1-1: WWSMC

Room: 14F Conference Room

10:20 - 10:40

B1: Coffee Break

10:40 - 12:10

T1-2: Tutorial 1

Small Cells Standardization in LTE Advanced

Room: 2F Convention Hall

Chair: Hsuan-Jung Su (National Taiwan University, Taiwan)

WS1-2: WWSMC

Room: 14F Conference Room

12:10 - 13:20

L1: Lunch

Room: 1F Garden Cafeteria

13:20 - 14:50

T2-1: Tutorial 2

Perpetual Wireless Video Camera for Internet-of-Things

Room: 2F Convention Hall

Chair: Hsuan-Jung Su (National Taiwan University, Taiwan)

WS1-3: WWSMC

Room: 14F Conference Room

14:50 - 15:10

B2: Coffee Break

15:10 - 16:40

T2-2: Tutorial 2

Perpetual Wireless Video Camera for Internet-of-Things

Room: 2F Convention Hall

Chair: Hsuan-Jung Su (National Taiwan University, Taiwan)

WS1-4: WWSMC

Room: 14F Conference Room

Tuesday, September 25

08:50 - 10:20

O1: Opening

Room: 2F Convention Hall

Chair: Kwang-Cheng Chen (National Taiwan University, Taiwan)

Privacy - Utility Tradeoffs in Smart Grid Communications

H. Vincent Poor (Princeton University, USA)

10:20 - 10:40

B3: Coffee Break

10:40 - 11:25

K1: Keynote Speech 1

Room: 2F Convention Hall

Chair: Nen-Fu Huang (National Tsing Hua University, Taiwan)

The Dawn of a New Era in Warfare - Cyber Warfare - Threats, Challenges & State of the Art

Parag Pruthi (CEO and Founder of NIKSUN, USA)

11:25 - 12:10

K2: Keynote Speech 2

Room: 2F Convention Hall

Chair: Nen-Fu Huang (National Tsing Hua University, Taiwan)

A Look into the Future of Wireless Communications

Khaled B. Letaief (The Hong Kong University of Science and Technology, Hong Kong)

12:10 - 13:20

L2: Lunch

Room: 1F Garden Cafeteria

13:20 - 14:50

AS1: Applications and Service 1

Experimental Trials and Development

Room: R202

Chair: Tai-Lin Chin (National Taiwan University of Science and Technology, Taiwan)

13:20 Traffic Engineering for Power Efficient Smartphone Communications

Chang-Hung Hsieh (National Taiwan University, Taiwan); Yu-Yu Chen (National Taiwan University, Taiwan); Chih-Chieh Yang (National Taiwan University, Taiwan); Shih-Lung Chao (National Taiwan University, Taiwan); Hung-Yu Wei (National Taiwan University, Taiwan)

13:38 Interference Evaluation of Terrestrial Mobile Terminals and Base Stations Using an Aircraft for Sharing Satellite and Terrestrial Mobile Communication System

Hiroyuki Tsuji (NICT, Japan); Yoshiyuki Fujino (National Institute of Information and Communications Technology, Japan)

13:56 Requirements on Naming Schemes Design for Future Wireless Internet

Nahla Abid (Orange Labs, France); Philippe Bertin (Orange Labs, France); Jean-Marie Bonnin (Institut Mines Telecom / Telecom Bretagne & IRISA, France)

14:14 Online Dictionary Learning Based Intra-Frame Video Coding Via Sparse Representation

Yipeng Sun (Tsinghua University, P.R. China); Mai Xu (Tsinghua University, P.R. China); Xiaoming Tao (Tsinghua University, P.R. China); Jianhua Lu (Tsinghua University, P.R. China)

IV1: Invited 1

Disaster-Resilient Networks (1)

Room: 2F Convention Hall

Chair: Vishwanath Sinha (The LNM Institute of Information Technology Jaipur, India)

13:20 Crowdsourcing Support System for Disaster Surveillance and Response

Edward T.-H. Chu, Prof. (National Yunlin University of Science and Technology, Taiwan); Yi-Lung Chen (National Yunlin University of Science and Technology, Taiwan); Jyun-You Lin (National Yunlin University of Science and Technology, Taiwan); Jane Win-Shih Liu (Institute of Information Science, Academia Sinica, Taiwan)

13:38 Disaster-Tolerant Dependable Wireless Network

Ryu Miura (NICT, Japan); Masugi Inoue (National Institute of Information and Communications Technology, Japan); Yasunori Owada (National Institute of Information and Communications Technology, Japan); Hiroyuki Tsuji (NICT, Japan); Shinsuke Hara (Osaka City University, Japan)

13:56 Multi-AP Cooperative Diversity for Disaster-resilient Wireless LAN

Fumiyuki Adachi (Tohoku University, Japan); Shinya Kumagai (Tohoku University, Japan)

14:14 Controlling Networks with an Intelligent Power System

Hirohito Yamada (Tohoku University, Japan)

14:32 57-66GHz Wireless PAN Systems

Masashi Nakagawa (Ministry of Internal Affairs and Communications, Japan)

WC1: Wireless Communications 1

Cognitive Radios (1)

Room: R201

Chair: Pin-Hsun Lin (National Taiwan University, Taiwan)

13:20 A Study on Channel Prediction for Dynamic Spectrum Control Aided Spectrum Sharing

Quang Thang Duong (Osaka University, Japan); Shinsuke Ibi (Osaka University, Japan); Seiichi Sampei (Osaka University, Japan)

13:38 Degree of Polarization Spectrum Sensing Algorithm for Cognitive Radios

Lin Lin (Beijing University of Posts and Telecommunications, P.R. China); Caili Guo (Beijing University of Posts and Telecommunications, P.R. China); Feng Chunyan (Beijing University of Posts and Telecommunications, P.R. China); Xiaobin Wu (Beijing University of Posts and Telecommunications, P.R. China)

13:56 A Novel Interference Avoidance Scheme Based on Blind Polarization Signal Processing for Cognitive Femtocell Network

Xiaolin Lin (Beijing University of Posts and Telecommunications, P.R. China); Caili Guo (Beijing University of Posts and Telecommunications, P.R. China); Zhimin Zeng (Beijing University of Posts and Telecommunications, P.R. China); Dongming Li (Beijing University of Posts and Telecommunications, P.R. China)

14:14 An Alternative Implementation of a Cyclostationary Detector ()

Francisco Paisana (Instituto Superior Técnico & Aalborg Universitet, Denmark); Neeli Rashmi Prasad (Center for TeleInfrastructure (CTIF), Denmark); António J. Rodrigues (IT / Instituto Superior Técnico, Portugal); Ramjee Prasad (Aalborg University, Denmark)

14:32 An Enhanced Feature Detection Method for DTV Signals () \$

Chunyi Song (National Institute of Information and Communications Technology, Japan); Hiroshi Harada (National Institute of Information & Communications Technology (NICT), Japan)

WN1: Wireless Networks 1

VANET

Room: R203

Chair: Chun-Cheng Lin (National Chiao Tung University, Taiwan)

13:20 An Adaptive and Reliable MAC Mechanism for IEEE 1609.4 and 802.11p VANETs ()

Guo Jinjie (Beijing University of Posts and Telecommunications, P.R. China); Huo Yiding (Beijing University of Posts and Telecommunications, P.R. China); Hu Chang (Beijing University of Posts and Telecommunications, P.R. China); Liang Tianning (Beijing University of Posts and Telecommunications, P.R. China); Yu Liu (Beijing University of Posts and Telecommunications, P.R. China); Lin Zhang (Beijing University of Posts and Telecommunications, P.R. China)

13:38 Network Coded File Sharing in Vehicular Ad-Hoc Networks () \$

Tai-Lin Chin (National Taiwan University of Science and Technology, Taiwan); Yeong-Sheng Chen (National Taipei University of Education, Taiwan); Hsing-Chang Du (National Taiwan University of Science and Technology, Taiwan); Yu-Shan Li (National Taiwan University of Science and Technology, Taiwan); Wan-Chen Chuang (National Taiwan University of Science and Technology, Taiwan)

13:56 Information Sharing Service in VANETs with Enhanced Two-Tier P2P Communications ()

Guo Jinjie (Beijing University of Posts and Telecommunications, P.R. China); Hu Chang (Beijing University of Posts and Telecommunications, P.R. China); Huo Yiding (Beijing University of Posts and Telecommunications, P.R. China); Yu Liu (Beijing University of Posts and Telecommunications, P.R. China); Lin Zhang (Beijing University of Posts and Telecommunications, P.R. China)

14:14 Affinity Propagation with File Similarity Based Clustering for P2P File Sharing in VANET

Hung-Chin Jang (National Chengchi University, Taiwan); Li-Ji Tzeng (National Chengchi University, Taiwan)

14:50 - 15:10

B4: Coffee Break

15:10 - 16:40

P1: Panel Session 1

Reunion for the birth of cognitive radio

Room: 2F Convention Hall

Chair: Kwang-Cheng Chen (National Taiwan University, Taiwan)

IV2: Invited 2

M2M and D2D Communications

Room: R203

Chair: Tony Q. S. Quek (Singapore University of Technology and Design (SUTD) & Institute for Infocomm Research, Singapore)

15:10 Intelligent Resource Management for Device-to-Device (D2D) Communications in Heterogeneous Networks

Ang-Hsun Tsai (National Chiao Tung University, Taiwan); Li-Chun Wang (National Chiao Tung University, Taiwan); Jane-Hwa Huang (National Chi Nan University, Taiwan); Tzu-Ming Lin (ITRI, Taiwan)

15:28 Exploiting Spatial Reuse Gain Through Joint Mode Selection and Resource Allocation for Underlay Device-to-Device Communications

Hung-Yun Hsieh (National Taiwan University, Taiwan); Cheng-Pang Chien (National Taiwan University, Taiwan); Yu-Chung Chen (National Taiwan University, Taiwan)

15:46 Device-to-Device Assisted Downlink Broadcast Channel in Cellular Networks

Chun-Che Chien (National Taiwan University, Taiwan); Hsuan-Jung Su (National Taiwan University, Taiwan); Hsueh-Jyh Li (National Taiwan University, Taiwan)

16:04 Opportunistic Routing with Adaptive Harvesting-aware Duty Cycling in Energy Harvesting WSN

Sanam Shirazi Beheshtiha (Amirkabir University of Technology, Iran); Hwee Pink Tan (Institute for Infocomm Research, Singapore); Masoud Sabaei (Amirkabir university of Technology, Iran)

16:22 Effect of Data Aggregation in M2M Networks

Shin-Yeh Tsai (National Cheng Kung University, Taiwan); Sok-lan Sou (National Cheng Kung University, Taiwan); Meng-Hsun Tsai (National Cheng Kung University, Taiwan)

16:40 Machine-to-Machine Communications as a New Revenue Source of Network Operators

Hiroshi Saito (NTT & NTT Service Integration Laboratories, Japan)

SSR1: Systems, Standards, and Regulations 1

International Standards

Room: R202

Chair: Ai-Chun Pang (National Taiwan University, Taiwan)

15:10 Rural, Poor and Catastrophic ICT Area Standardization and Modeling

Dipashree Bhalerao (Aalborg University, India); M. Tahir Riaz (Aalborg University, Denmark); Ole B Madsen (Aalborg University, Denmark); Ramjee Prasad (Aalborg University, Denmark)

15:28 A New Standard Activity in IEEE 802.22 Wireless Regional Area Networks: Enhancement for Broadband Services and Monitoring Applications in TV Whitespace

Chang-Woo Pyo (NICT, Japan); Xin Zhang (National Institute of Information and Communication Technology, Singapore); Chunyi Song (National Institute of Information and Communications Technology, Japan); Ming-Tuo Zhou (National Institute of Information and Communications Technology, Singapore); Hiroshi Harada (National Institute of Information & Communications Technology (NICT), Japan)

15:46 Chirp Pulse Compression in Non-Coherent Impulse-Radio Ultra-Wideband Detection Without Waveform Signature Estimation

Igor Dotlic (National Institute of Information and Communications Technology, Japan); Ryu Miura (NICT, Japan)

16:04 TV White Space Database for Coexistence of Primary-Secondary and Secondary-Secondary Systems in Mesh Networking

Kentaro Ishizu (National Institute of Information and Communications Technology, Japan); Homare Murakami (National Institute of Information and Communications Technology, Japan); Hiroshi Harada (National Institute of Information & Communications Technology (NICT), Japan)

16:22 Prototype of UHF Converter for TV White-space Utilization

Takeshi Matsumura (National Institute of Information and Communications Technology (NICT), Japan); Hiroshi Harada (National Institute of Information & Communications Technology (NICT), Japan)

WC2: Wireless Communications 2

Cognitive Radios (2)

Room: R201

Chair: Ping-Cheng Yeh (National Taiwan University, Taiwan)

15:10 Stochastic Duty Cycle Model Based on Measurement for Cognitive Radio

Kishor Patil (Aalborg University, Denmark); Knud Erik Skouby (Aalborg University, Denmark); Ramjee Prasad (Aalborg University, Denmark)

15:28 Outage Probability of Cognitive Relay Network with Transmit Power and Interference Constraints

Tao Yi (Beijing University of Posts and Telecommunications, P.R. China); Li Guo (Beijing University of Posts and Telecommunications, P.R. China); Jiaru Lin (Beijing University of Posts and Telecommunications, P.R. China)

15:46 A Simple, Bio-inspired Time Synchronization Protocol for Cognitive Radio Ad Hoc Networks

Aravind Kailas (University of North Carolina at Charlotte, USA); Nadine Pari (Federal University of Parana, Brazil); Michele Nogueira (Federal University of Parana, Brazil)

16:04 M-GCF: Multicolor-Green Conflict Free Scheduling Algorithm for WSN

Pranav Pawar (University of Aalborg, India); Rasmus Hjorth Nielsen (Aalborg University & Center for TeleInfrastruktur, Denmark); Neeli Rashmi Prasad (Center for TeleInfrastructure (CTIF), Denmark); Shingo Ohmori (CTIF-Japan, Aalborg University & YRP International Alliance Institute, Japan); Ramjee Prasad (Aalborg University, Denmark)

16:22 An Opportunistic Network Coding Cooperative Scheme for Wireless Uplink Multi-Relay Cooperative Networks

Weiyang Geng (Beijing University of Posts and Telecommunications, P.R. China); Tiejun Lv (Beijing University of Posts and Telecommunications, P.R. China)

18:30 - 21:00

W1: Welcome Reception

Room: 14F Conference Room

Wednesday, September 26

08:50 - 10:20

IV3: Invited 3

Advanced Communication Technologies

Room: R203

Chair: Chun-Ting Chou (National Taiwan University, Taiwan)

08:50 *Development of a Self-Sustainable Autonomous Environmental Monitoring System*

Xiang-Yao Zheng (National Taiwan University, Taiwan); Min-Sheng Liao (National Taiwan University, Taiwan); Tzu-Shiang Lin (National Taiwan University, Taiwan); Chia-Pang Chen (National Taiwan University, Taiwan); Joe-Air Jiang (National Taiwan University, Taiwan); Cheng-Long Chuang (National Taiwan University, Taiwan)

09:08 *Performance Evaluation of Machine-to-Machine (M2M) Systems with Virtual Machines*

Shih-Hao Hung (National Taiwan University, Taiwan)

09:26 *A Study of Network Infrastructure Optimization for Data Center Servers*

Hsin-Peng Lin (Telecommunication Laboratories Chunghwa Telecom Co., Taiwan); Ching-chih Chuang (National Taiwan University, Taiwan); Hsueh-Wen Tseng (National Chung-Hsing University, Taiwan); Ai-Chun Pang (National Taiwan University, Taiwan); Phone Lin (National Taiwan University, Taiwan); Jeu-Yih Jeng (Information of Technology Laboratory of Telecommunication Laboratories, Taiwan)

09:44 *Radio Network Selection Scheme Notified by the Each Network's Real-time Performance in the Multi-layered Communication Network*

Shingo Watanabe (KDDI R&D Laboratories Inc., Japan); Kosuke Yamazaki (KDDI R&D Laboratories Inc., Japan); Toshihiko Komine (KDDI R&D Labs., Inc., Japan); Tomoki Sada (KDDI R&D Laboratories Inc., Japan); Takashi Fujimoto (KDDI R&D Laboratories, Japan); Akira Yamaguchi (KDDI R&D Laboratories Inc., Japan); Kanshiro Kashiki (KDDI R&D Laboratories Inc., Japan); Kazunori Takeuchi (KDDI R&D Labs., Inc., Japan)

08:50 - 09:35

K3: Keynote Speech 3

Room: 2F Convention Hall

Chair: Hsuan-Jung Su (National Taiwan University, Taiwan)

Spectrum sensing under uncertain channel modeling

Ezio Biglieri (UCLA, USA)

09:35 - 10:20

K4: Keynote Speech 4

Room: 2F Convention Hall

Chair: Hsuan-Jung Su (National Taiwan University, Taiwan)

A Geometric Method for Networks and More

Lizhong Zheng (MIT, USA)

10:20 - 10:40

B5: Coffee Break

10:40 - 12:10

IV4: Invited 4

Ubiquitous Interaction System

Room: R203

Chair: Chun-Ting Chou (National Taiwan University, Taiwan)

10:40 A Trust and Distrust Mechanism for a Social Network-based Recommendation System

Chun-Cheng Lin (National Chiao Tung University, Taiwan); Tzong-Shyan Lin (National Chiao Tung University, Taiwan); Wan-Yu Liu (Aletheia University, Taiwan)

10:58 Authentication Using Graphical Password in Cloud

Minghuang Guo (Shih Hsin University, Taiwan); Horng-Twu Liaw (Shih Hsin University, Taiwan); Li-Lin Hsiao (Shih Hsin University, Taiwan); Chih-Yuan Huang (Shih Hsin University, Taiwan); Chih-Ta Yen (National Taiwan University of Science and Technology, Taiwan)

11:16 Data Processing with Time Constraint Using Prediction Algorithm in Mobile Environment

Ding-Jung Chiang (Taipei Chengshih University of Science and Technology, Taiwan); Ching-Sheng Wang (Aletheia University, Taiwan); Chien-Liang Chen (Aletheia University, Taiwan); Der-Jiunn Deng (National Changhua University of Education, Taiwan)

11:34 Identity Establishment and Capability Based Access Control (IECAC) Scheme for Internet of Things

Parikshit Narendra Mahalle (Aalborg University, Denmark); Bayu Anggorojati (Aalborg Universitet, Denmark); Neeli Rashmi Prasad (Center for TeleInfrastructure (CTIF), Denmark); Ramjee Prasad (Aalborg University, Denmark)

10:40 - 11:25

K5: Keynote Speech 5

Room: 2F Convention Hall

Chair: Hsiao-Hwa Chen (National Cheng Kung University, Taiwan)

Depolarization in Wireless Channels

Gordon L. Stüber (Georgia Institute of Technology, USA)

10:40 - 12:10

WN2: Wireless Networks 2

Sensor Networks

Room: R202

Chair: Kuo-Chang Ting (Minghsin University of Science and Technology, Hsinchu, Taiwan)

10:40 Barrier Coverage with Optimized Quality for Wireless Sensor Networks

Yung-Liang Lai (Taoyuan Innovation Institute of Technology, Taiwan); Jehn-Ruey Jiang (National Central University, Taiwan)

10:58 Distributed Scheduling for Cooperative Tracking in Hierarchical Wireless Sensor Networks

Ying-Chih Chen (National Chung Hsing University, Taiwan); Su-Mong Yu (National Chung Hsing University, Taiwan); Chih-Yu Wen (National Chung Hsing University, Taiwan)

11:16 Performance Comparison Between Single-User MIMO and Multi-User MIMO in Wireless Mesh Networks

Hironori Kusumoto (Nagoya University, Japan); Hiraku Okada (Nagoya University, Japan); Kentaro Kobayashi (Nagoya University, Japan); Masaaki Katayama (Nagoya University, Japan)

11:34 An Efficient Scheduling and Random Access Hybrid Medium Access Control Protocol for Underwater Sensor Networks

Chih-Shun Hsu (Shih Hsin University, Taiwan); Xiang-Ze Hong (Department of Information Management, Shih Hsin University, Taiwan)

11:52 A Dynamic Channel Switching Mechanism Based on Vehicle Density

Huo Yiding (Beijing University of Posts and Telecommunications, P.R. China); Guo Jinjie (Beijing University of Posts and Telecommunications, P.R. China); Rui Zou (Beijing University of Posts and Telecommunications, P.R. China); Hongtao Zhang (Beijing University of Posts and Telecommunications, P.R. China); Yu Liu (Beijing University of Posts and Telecommunications, P.R. China); Lin Zhang (Beijing University of Posts and Telecommunications, P.R. China)

11:25 - 12:10

K6: Keynote Speech 6

Room: 2F Convention Hall

Chair: Hsiao-Hwa Chen (National Cheng Kung University, Taiwan)

Advanced High Quality Media: Trend and Applications

Naohisa Ohta (Keio University, Japan)

12:10 - 13:20

L3: Lunch

Room: 1F Garden Cafeteria

13:20 - 14:50

IV5: Invited 5

Disaster-Resilient Networks (2)

Room: 2F Convention Hall

Chair: Yeong-Sheng Chen (National Taipei University of Education, Taiwan)

13:20 Multi-hop Communication and Multi-protocol Gateway by Using Plural ITS

Takashi Ohyama (OKI Electric Industry Co., Ltd., Japan); Yutaka Kaneko (OKI Electric Industry Co., Ltd., Japan); Kinya Asano (OKI Electric Industry Co., Ltd., Japan); Masaharu Hamaguchi (OKI Electric Industry Co., Ltd., Japan)

13:38 Rapid Recovery of Base Station Backhaul by the Neighbor Regional Wireless Access Network and Its Extension with the Multi-hop Wireless LAN Relay

Yoji Kishi (KDDI Corporation, Japan)

13:56 Resource Utilization on CWC-Supported Long-Lived IEEE 802.15.4g/4e SUN for Disaster Radio

Fumihide Kojima (National Institute of Information and Communications Technology, Japan); Hiroshi Harada (National Institute of Information & Communications Technology (NICT), Japan)

14:14 RRBS: Reliable Broadcasting Over Unreliable Wireless Links in Resilient Ad-Hoc Networks

Jung-Chun Kao (National Tsing Hua University, Taiwan); Fu-Wen Chen (National Tsing Hua University, Taiwan)

SSR2: Systems, Standards, and Regulations 2

Mobile Cellular Systems

Room: R201

Chair: Hwang-Cheng Wang (National Ilan University, Taiwan)

13:20 Performance Evaluation of Capacity Based CoMP Handover Algorithm for LTE-Advanced

Cheng-Chung Lin (University of Technology Sydney, Australia); Kumbesan Sandrasegaran (University of Technology, Sydney, Australia); Xinning Zhu (Beijing University of Posts and Telecommunications, P.R. China); Zhuliang Xu (University of Technology, Sydney, Australia)

13:38 Performance Evaluation of Intra-Site Coordinated Multi-Point Transmission with Inter-cell Phase Information in 3GPP LTE-A

Chen-Yin Liao (Chunghwa Telecom Co., Ltd., Taiwan); Hsin-Kai Huang (Chunghwa Telecom Co., Ltd., Taiwan)

13:56 Deployment Analysis and Optimization of Macro-Pico Heterogeneous Networks in LTE-A System * &

Peng Tian (Beijing University of Posts and Telecommunications & Key Laboratory of Universal Wireless Communications, Ministry of Education, P.R. China); Hui Tian (Beijing University of Posts & Telecommunications, P.R. China); Liqi Gao (Beijing University of Posts & Telecommunications, P.R. China); Jing Wang (DOCOMO Beijing Communications Laboratories, P.R. China); Xiaoming She (DOCOMO Beijing Communications Laboratories, P.R. China); Lan Chen (DOCOMO Beijing Communications Laboratories, P.R. China)

14:14 Optimization of Time-to-Trigger Parameter on Handover Performance in LTE High-speed Railway Networks * & %

Yifan Zhang (Beijing University of Posts and Telecommunications, P.R. China); Muqing Wu (BUPT, P.R. China); Shunming Ge (Beijing University of Posts and Telecommunications, P.R. China); Linlin Luan (Beijing University of Posts and Telecommunications, P.R. China); Ankang Zhang (Beijing University of Posts and Telecommunications, P.R. China)

WC3: Wireless Communications 3

Communication and Coding

Room: R205

Chair: Shih-Chun Lin (National Taipei University of Technology, Taiwan)

13:20 LMMSE Detection of OFDM Signals in Time-Varying Channels with Partial Whitening of Intercarrier Interference and Soft Decision Feedback * & *

Hai-wei Wang (National Chiao Tung University, Taiwan); David Lin (National Chiao Tung University, Taiwan); Tzu-Hsien Sang (National Chiao Tung University, Taiwan)

13:38 Performance Comparisons of Localized and Distributed Transmissions Using Iterative Decision-Directed Channel Estimation in DFT-Precoded OFDMA * & * %

Keita Miwa (Tokyo City University, Japan); Teruo Kawamura (NTT DOCOMO, INC., Japan); Nobuhiko Miki (NTT DOCOMO, INC., Japan); Mamoru Sawahashi (Tokyo City University, Japan)

13:56 Link-Level Performance of Star 32/64QAM Schemes Using Frequency Domain Equalizer for DFT-Precoded OFDMA * & * *

Chihiro Mori (Tokyo City University, Japan); Teruo Kawamura (NTT DOCOMO, INC., Japan); Nobuhiko Miki (NTT DOCOMO, INC., Japan); Mamoru Sawahashi (Tokyo City University, Japan)

14:14 Band Edge Filters Perform Non Data-Aided Carrier and Timing Synchronization of Software Defined Radio QAM Receivers

Frederic j harris (San Diego State Univ, USA); Elettra Venosa (San Diego State University, USA); Xiaofei Chen (San Diego State University, USA); Chris Dick (Xilinx, USA)

14:32 SNR Estimation Techniques for Low SNR Signals

Frederic j harris (San Diego State Univ, USA); Chris Dick (Xilinx, USA)

WC4: Wireless Communications 4

MIMO Communications (1)

Room: R202

Chair: Wei-Ho Chung (Academia Sinica, Taiwan)

13:20 Simple Zero Interference Transmissions to Users with Rank Deficient Channels

Helka-Liina Määttänen (Renesas Mobile Europe, Finland); Olav Tirkkonen (Aalto University, Finland)

13:38 Adaptive One-Way and Two-Way Relaying for MIMO Relay Networks

Sho Mukai (Yokohama National University, Japan); Fumie Ono (National Institute of Information and Communications Technology, Japan); Hideki Ochiai (Yokohama National University, Japan); Ryu Miura (NICT, Japan)

13:56 I/Q Imbalance Compensation in Precoded MIMO-OFDMA Systems

Udesh Oruthota (Aalto University, Finland); Olav Tirkkonen (Aalto University, Finland)

14:14 Joint Precoding for Two Way AF MIMO Relays in Frequency Selective OFDM Channels

Nithin James (Indian Institute Of Technology, Madras, India); Rajeshwari S. S (Indian Institute Technology, India); Devendra Jalihal (Indian Institute of Technology Madras, India); K Giridhar (Indian Institute of Technology, Madras, India)

14:32 Effects of Open-loop Transmit Diversity Schemes with Four Antennas on Control Signals Using Cyclic-Shift CDMA

Yuichiro Hikosaka (Tokyo City University, Japan); Teruo Kawamura (NTT DOCOMO, INC., Japan); Hidekazu Taoka (DOCOMO Euro-Labs, Germany); Mamoru Sawahashi (Tokyo City University, Japan)

WN3: Wireless Networks 3

Cooperative Networks

Room: R203

Chair: Kuo-Chang Ting (Minghsin University of Science and Technology, Hsinchu, Taiwan)

13:20 Optimizing for High Channel Capacity of Multiple-Hop MIMO Relay System with MAC-PHY Cross Layer

Pham Thanh Hiep (Yokohama national university, Japan); Ryuji Kohno (Yokohama National University, Japan)

13:38 Performance Analysis of Packet Cooperative Cellular Relaying Networks

Hyungseok Yu (Georgia Institute of Technology, USA); Gordon Stüber (Georgia Institute of Technology, USA)

13:56 Finding Optimized Positioning for Fixed Relay Stations in a Cooperative LTE Network

André Martins (Instituto de Telecomunicações and Instituto Superior Técnico, Portugal); António J. Rodrigues (IT / Instituto Superior Técnico, Portugal); Pedro Vieira (Instituto de Telecomunicações and ISEL, Portugal)

14:14 On Optimal Power Allocation of Layered Coding in Noisy Wireless Relay Networks

James Ho (University of Waterloo, Canada); Pin-Han Ho (University of Waterloo, Canada)

14:50 - 15:10

B6: Coffee Break

15:10 - 16:40

P2: Panel Session 2

CONASENSE

Room: 2F Convention Hall

Chair: Ramjee Prasad (Aalborg University, Denmark)

AS2: Applications and Service 2

Positioning

Room: R202

Chair: Fang-Chang Kuo (National Ilan University, Taiwan)

15:10 Localizing an Unknown Number of Targets with Radio Tomography Networks

Chi Zhang (Beijing University of Posts and Telecommunications, P.R. China); Yi Zheng (Beijing University of Posts and Telecommunications, P.R. China); Yang Li (Beijing University of Posts and Telecommunications, P.R. China); Aidong Men (Beijing University of Posts and Telecommunications, P.R. China)

15:28 Study on the Use of a Weighted Screening Method for Indoor Positioning Systems

Hung-Huan Liu (Chung Yuan Christian University, Taiwan); Yu-Non Yang (Chung Yuan Christian University, Taiwan)

15:46 A Multi-Path Data Exclusion Model for RSSI-based Indoor Localization

Ndeye Amy Dieng (Telecom Bretagne, France); Maurice Charbit (Telecom ParisTech CNRS/LTCI/TSI, France); Claude Chaudet (Telecom Paristech, France); Laurent Toutain (Telecom Bretagne, France); Tayeb Ben Meriem (Orange, France)

16:04 Collaborative Localization in Wireless Sensor Networks Based on Dependable RSSI

Yeong-Sheng Chen (National Taipei University of Education, Taiwan); Tai-Lin Chin (National Taiwan University of Science and Technology, Taiwan); Yi-Chen Huang (National Taipei University of Education, Taiwan)

IV6: Invited 6

Disaster-Resilient Networks (3)

Room: R203

Chair: Chia-Han Lee (Academia Sinica, Taiwan)

15:10 Secured Information Service Platforms Effective in Case of Disasters -Using Multilayered Communications Network-

Fumiyuki Adachi (Tohoku University, Japan); Kiyohito Tokuda (YRP International Alliance Institute, Japan); Shingo Ohmori (CTIF-Japan, Aalborg University & YRP International Alliance Institute, Japan)

15:28 R&D Project of Multilayered Communications Network -For Disaster-resilient Communications-

Fumiyuki Adachi (Tohoku University, Japan); Kazunori Takeuchi (KDDI R&D Labs., Inc., Japan); Yoji Kishi (KDDI Corporation, Japan); Masaharu Hamaguchi (Oki Electric Industry Co., Ltd., Japan); Shingo Ohmori (CTIF-Japan, Aalborg University & YRP International Alliance Institute, Japan); Ryo Kajiwara (YRP R&D Promotion Committee, Japan)

15:46 Recovery Techniques for Images and Videos with Missing Data in Disaster Situation () &

Masayuki Kawamata (Tohoku University, Japan); Shuhei Sakamoto (Tohoku University, Japan); Masahide Abe (Tohoku University, Japan)

16:04 SensorFly: Enabling Groups of Minimalistic Semi-Controllable Flying Sensing Devices () '

Frank Mokaya (Carnegie Mellon University, USA); Aveek Purohit (Carnegie Mellon University, USA); Pei Zhang (Carnegie Mellon University, USA)

16:22 Disaster and Emergency Management System () *'

Fang-Chu Chen (Computer and Communications Labs, ITRI, Taiwan); Rui-Yen Chang (Industrial Technology Research Institute & Industrial Technology Research Institute, Taiwan); Wan-Yi Lin (Industrial Technology Research Institute, Taiwan); Sheng Hui Chen (Engineer, Taiwan); YuCheng Chen (Engineer, Taiwan); Chin Nung Li (Project Manager, Taiwan)

WC5: Wireless Communications 5

Green Communications

Room: R201

Chair: I-Wei Lai (Academia Sinica, Taiwan)

15:10 A Polarization-Amplitude-Phase Modulation Scheme for the Power Amplifier Energy Efficiency Enhancement () * -

Dong Wei (Beijing University of Posts and Telecommunications, P.R. China); Feng Chunyan (Beijing University of Posts and Telecommunications, P.R. China); Caili Guo (Beijing University of Posts and Telecommunications, P.R. China)

15:28 Impact of Site Power Modeling on Heterogeneous Deployment in Radio Access Networks () +{

Chih-Hsuan Tang (Chunghwa Telecom, Taiwan); Chin-Wei Lin (Chunghwa Telecom, Taiwan); Chi-En Wu (Chunghwa Telecom, Taiwan); Chen-Yin Liao (Chunghwa Telecom Co., Ltd., Taiwan)

15:46 Clustering Based Power Saving Algorithm for Self-Organized Sleep Mode in Femtocell Networks +-

Wei Li (Beijing University of Posts and Telecommunications, P.R. China); Wei Zheng (BUPT, P.R. China); YuanBao Xie (Beijing University of Posts and Telecommunications, P.R. China); Xiangming Wen (Beijing University of Posts and Telecommunications, P.R. China)

16:04 Accurate Analysis of Delay and Power Consumption of LTE DRX Mechanism with a Combination of Short and Long Cycles , (

Hwang-Cheng Wang (National Ilan University, Taiwan); Chih-Cheng Tseng (National Ilan University, Taiwan); Guan-Yun Chen (National Ilan University, Taiwan); Fang-Chang Kuo (National Ilan University, Taiwan); Kuo-Chang Ting (Minghsin University of Science and Technology, Hsinchu, Taiwan)

WC6: Wireless Communications 6

MIMO Communications (2)

Room: R205

Chair: Wei-Ho Chung (Academia Sinica, Taiwan)

15:10 Degree of Freedom of MIMO ICR Under Power Allocation with Optimized Interference Alignment , -

Wei Wang (Beijing University of Posts and Telecommunications, P.R. China); Tiankui Zhang (Beijing University of Posts and Telecommunications, P.R. China); Song Zhao (Beijing University of Posts and Telecommunications, P.R. China); Zhimin Zeng (Beijing University of Posts and Telecommunications, P.R. China)

15:28 Impact of Multi-beam Antenna Amplitude Tapering on Co-Channel Interference and Backhaul Throughput Density - (

Nizabat Khan (Universite Catholique de Louvain, Belgium); Tao Jiang (University of York, United Kingdom); David Grace (University of York, United Kingdom); Alister G. Burr (University of York, United Kingdom); Claude Oestges (Université Catholique de Louvain, Belgium)

15:46 A Multi-Mode Space-Time Coded MIMO System Using Lattice-Reduction Aided Detection --

Shin-Hua Huang (National Chung Cheng University, Taiwan); Chiao-En Chen (National Chung-Cheng university, Taiwan)

16:04 Low-Complexity Successive Interference Cancellation and One/Two-Bit Feedback Transmit Antenna Shuffling for 4×4 Quasi-Orthogonal Space-Time Block Codes

Yinman Lee (National Chi Nan University, Taiwan)

16:22 Iterative Overlap QRM-MLBD for Single-Carrier MIMO Transmission Without CP Insertion

Hideyuki Moroga (Tohoku University, Japan); Tetsuya Yamamoto (Tohoku University, Japan); Fumiyuki Adachi (Tohoku University, Japan)

18:30 - 21:00

W2: Award Banquet

Venue: W-Hotel 8F Mega-Room 1 (10 Zhongxiao East Road, Sec 5, Xinyi District, Taipei.)

Shuttle Bus to Award Banquet site will be leaving at 17:30 in front of Howard International House.

Thursday, September 27

08:50 - 09:35

K7: Keynote Speech 7

Room: 2F Convention Hall

Chair: Phone Lin (National Taiwan University, Taiwan)

Monetizing MBB with LTE - network deployment and strategies

Nigel Chan (Nokia Siemens Networks, Greater China)

08:50 - 10:20

WC7: Wireless Communications 7

Radio Propagation

Room: R203

Chair: Ying-Ren Chien (National I-Lan University, Taiwan)

08:50 A VLF to UHF Propagation Model for Evaluation of High-Speed Railway Electromagnetic Emissions in Outside World

Pedro Vieira (Instituto de Telecomunicações and ISEL, Portugal); Nuno Cota (Instituto Superior de Engenharia de Lisboa, Portugal); António J. Rodrigues (IT / Instituto Superior Técnico, Portugal)

09:08 Small-Scale Statistics of Fixed Relay Polarimetric Links Using Narrow-Beamwidth Antennas At 3.5 GHz

Nizabat Khan (Universite Catholique de Louvain, Belgium); Claude Oestges (Université Catholique de Louvain, Belgium)

09:26 Power Allocation for Indoor Distributed Antenna System Based on Path Loss Prediction At 6 GHz

Liang Xin (BeiJing University of Posts and Telecommunications, P.R. China); Jianhua Zhang (Beijing University of Posts and Telecommunications, P.R. China); Xiaofan Li (Beijing University of Posts and telecommunications, P.R. China)

09:44 Power Coverage and Multipath Diversity for Indoor Distributed Antenna System Based on Wideband Channel Measurement At 6 GHz

Liang Xin (BeiJing University of Posts and Telecommunications, P.R. China); Jianhua Zhang (Beijing University of Posts and Telecommunications, P.R. China); Fei Xiong (Beijing University of Post and Telecommuniation, P.R. China); Yanliang Sun (Beijing University of Posts and Telecommunications, P.R. China); Nan Sheng (Beijing University of Posts and Telecommunications, P.R. China)

10:02 UHF RFID PIFA Array Tag Antenna for Human Body Applications '(' (

Min-Chuan Tsai (Department of Electronic Engineering, National Ilan University, Taiwan); Ian Guang Li (SA, Taiwan); Chien-Wen Chiu (National Ilan University, Taiwan); Hwang-Cheng Wang (National Ilan University, Taiwan)

09:35 - 10:20

K8: Keynote Speech 8

Room: 2F Convention Hall

Chair: Phone Lin (National Taiwan University, Taiwan)

MAC in Motion: Delivering Differential Services in Drive-Thru Internet

Sherman Shen (University of Waterloo, Canada)

10:20 - 10:40

B7: Coffee Break

10:40 - 12:10

AS3: Applications and Service 3

Mobile Multimedia

Room: R202

Chair: Ray-Guang Cheng (National Taiwan University of Science and Technology, Taiwan)

10:40 A Model for Evaluating QoE of Mobile Internet Services '(' ,

Yi Luo (Beijing University of Posts and Telecommunications, P.R. China); Guochu Shou (Beijing University of Posts and Telecommunications, P.R. China); Yihong Hu (Beijing University of Posts and Telecommunications, P.R. China); Zhigang Guo (Beijing University of Posts and Telecommunications, P.R. China)

10:58 A Joint Source-Channel Decoder for H.264 SPS and PPS Headers '((' ' (

Kai Yen (Institute for Infocomm Research, Singapore); Sumei Sun (Institute for Infocomm Research, Singapore); Ubolthip Sethakaset (Institute for Infocomm Research, Singapore); Peng Hui Tan (Institute for Infocomm Research, Singapore); Zhengguo Li (Institute for Infocomm Research, Singapore); Jinghong Zheng (Institute for Infocomm Research, Singapore)

11:16 An Empirical Investigation Into CDMA Network Traffic Classification Based on Feature Selection ((,

Yang Jie (Beijing University of Posts and Telecommunications, P.R. China); Zheng Ma (Beijing University of Posts and Telecommunications, P.R. China); Chao Dong (Beijing University of Posts and Telecommunications, P.R. China); Gang Cheng (Microsoft Corporation, P.R. China)

11:34 A Novel Secure Wireless Communication Using Side Information From Spatially Distributed Nodes in Private Wireless Network (()'

Hiroki Matoba (Osaka University & Osaka University, Japan); Shinichi Miyamoto (Osaka University, Japan); Seiichi Sampei (Osaka University, Japan)

11:52 Cooperative Jamming for Physical Layer Security in Wireless Sensor Networks ((),

Vandana Rohokale (CTIF, Aalborg University & Sinhgad Institute of Technology, Lonavala, Maharashtra, India, India); Neeli Rashmi Prasad (Center for TeleInfrastruktur (CTIF), Denmark); Ramjee Prasad (Center for TeleInfrastruktur (CTIF), Aalborg University, Denmark)

10:40 - 11:25

K9: Keynote Speech 9

Room: 2F Convention Hall

Chair: Der-Jiunn Deng (National Changhua University of Education, Taiwan)

Security and Network Performance for Wireless Ad Hoc Networks

Yuguang "Michael" Fang (University of Florida, USA)

10:40 - 12:10

WC8: Wireless Communications 8

Channel Modeling and Signal Processing Techniques (1)

Room: R203

Chair: Ying-Ren Chien (National I-Lan University, Taiwan)

10:40 The Impulsive Noise Reduction Using It's Replica Signal Under Class-A Impulsive Channel (('*'

Takuya Kitamura (Tokyo University of Science, Japan); Hiroshi Ando (Tokyo University of Science, Japan); Kohei Ohno (Tokyo University of Science, Japan); Makoto Itami (Tokyo University of Science, Japan)

10:58 Theoretical Polarized Channel Model and Analysis of XPD and Polarization Correlation Under Narrowband Macrocell Environment (* ,

Xiaobin Wu (Beijing University of Posts and Telecommunications, P.R. China); Caili Guo (Beijing University of Posts and Telecommunications, P.R. China); Feng Chunyan (Beijing University of Posts and Telecommunications, P.R. China); Lin Lin (Beijing University of Posts and Telecommunications, P.R. China)

11:16 Low-speed ADC Sampling Based High-resolution Compressive Channel Estimation (+'

Guan Gui (Tohoku University, Japan); Aihua Kuang (School of Electronics and Information Engineering of Zhengzhou, P.R. China); Ling Wang (University of Electronic Science and Technology of China, P.R. China)

11:34 Network Video Quality Assessment Based on Measuring Salient Video Features (+,

Zhiming Shi (Beijing University of Posts and Telecommunications, P.R. China)

11:52 Robust Transceiver Optimization for Non-Regenerative MIMO Relay Systems (, '

Qi Sun (Beijing University of Posts and Telecommunications, P.R. China); Lihua Li (Beijing University of Posts and Telecommunications, P.R. China)

11:25 - 12:10

K10: Keynote Speech 10

Room: 2F Convention Hall

Chair: Der-Jiunn Deng (National Changhua University of Education, Taiwan)

BAN of Things and Dependable Wireless M2M

Ryuji Kohno (Yokohama National University, Japan)

12:10 - 13:20

L4: Lunch

Room: 1F Garden Cafeteria

13:20 - 14:50

IV7: Invited 7

Disaster-Resilient Networks (4)

Room: 2F Convention Hall

Chair: Chia-Han Lee (Academia Sinica, Taiwan)

13:20 Towards Throughput Optimization of Wireless Mesh Networks in Disaster Areas

Wei Liu (Tohoku University, Japan); Hiroki Nishiyama (Tohoku University, Japan); Nei Kato (Tohoku University, Japan)

13:38 Packet Loss Concealment of VoIP Under Severe Loss Conditions

Akinori Ito (Tohoku University, Japan); Takeshi Nagano (Tohoku University, Japan)

13:56 Multiband Antenna for Disaster-resilient Wireless Networks

Kunio Sawaya (Tohoku University & School of Engineering, Japan); Qiang Chen (Tohoku University, Japan); Hiroto Abe (Tohoku University, Japan)

14:14 Compression of Scene Images by Region Segmentation and Text Detection

Shinichiro Omachi (Tohoku University, Japan); Shota Kaneko (Tohoku University, Japan); Hiroko Tsuchida (Tohoku University, Japan); Yoshihiro Sugaya (Tohoku University, Japan)

14:32 Distributed Service Recovery for Real-Time Pub/Sub Services on Disaster Management

Chi-Sheng Shih (National Taiwan University, Taiwan); Hsin-Yi Chen (National Taiwan University, Taiwan)

WC9: Wireless Communications 9

Channel Modeling and Signal Processing Techniques (2)

Room: R201

Chair: Yao-Win Peter Hong (National Tsing Hua University, Taiwan)

13:20 Latency Impacts of Different Parallelism Levels in Data-Flow Architectures

Markus Petri (IHP, Germany)

13:38 Channel Estimation and Performance Analysis for MIMO-OFDM in Doubly-Selective Channels

Lian Chang (Beijing University of Posts and Telecommunications, P.R. China); Jianhua Zhang (Beijing University of Posts and Telecommunications, P.R. China); Xiaofan Li (Beijing University of Posts and Telecommunications, P.R. China); Baoling Liu (Beijing University of Posts and Telecommunications, P.R. China)

13:56 Digital-Analog in Band Separation Using Extended Combined Measurement Kalman Filter

Beibei Wang (Beijing University of Posts and Telecommunications, P.R. China); Jue Hou (Beijing University of Posts and Telecommunications, P.R. China); Peizhi Liu (Beijing University of Posts and Telecommunications, P.R. China); Chen Xi (Tsinghua University, P.R. China)

14:14 A Non-invasive Detection of Respiration by Using Ultra Wideband Signals

Tomoya Akiyama (Meiji University, Japan); Tetsushi Ikegami (Meiji University, Japan); Kenichi Takizawa (National Institute of Information and Communications Technology, Japan)

14:32 A Space-Time Block Code with Temporal and Spatial Modulation

Tatsuya Muramatsu (Yokohama National University, Japan); Fumie Ono (National Institute of Information and Communications Technology, Japan); Hideki Ochiai (Yokohama National University, Japan); Ryu Miura (NICT, Japan)

WN4: Wireless Networks 4

Network Protocols

Room: R203

Chair: Shao-Yu Lien (National Taiwan University, Taiwan)

13:20 PIB with Rate Selection for Multicast Broadcast Service in Relay System

Yu-Chen Lee (National Taiwan University, Taiwan); Ching-Chun Chou (National Taiwan University, Taiwan); Hung-Yu Wei (National Taiwan University, Taiwan)

13:38 A Listening Power-Saving Mechanism in MAC Layer for the DCF of 802.11n

Kuo-Chang Ting (Minghsin University of Science and Technology, Hsinchu, Taiwan); Hwang-Cheng Wang (National Ilan University, Taiwan); Fang-Chang Kuo (National Ilan University, Taiwan); Chih-Cheng Tseng (National Ilan University, Taiwan)

13:56 A Cross-Layer Design for Video Applications Based on QoE Prediction

Ying Ju (China & BUPT, P.R. China); Zhaoming Lu (BUPT, P.R. China); Wei Zheng (Beijing University of Posts and Telecommunications, P.R. China); Xiangming Wen (Beijing University of Posts and Telecommunications, P.R. China); Dabing Ling (BUPT, P.R. China)

14:14 Introducing Quiet Period to Wireless LAN Over TV White Space

Masumi Yuki (Niigata University, Japan); Shigenobu Sasaki (Niigata University, Japan)

14:32 Quota-Based Multicast Routing in Delay-Tolerant Networks ((

Shou-Chih Lo (National Dong Hwa University, Taiwan); Nai-Wun Luo (National Dong Hwa University, Taiwan)

WN5: Wireless Networks 5

Scheduling and RRM

Room: R202

Chair: Chih-Cheng Tseng (National Ilan University, Taiwan)

13:20 An Offline Tool for Accurately Estimating the Lifetime of a Mote)) (-

Sankarkumar Thandapani (University of North Carolina at Charlotte, USA); Aravind Kailas (University of North Carolina at Charlotte, USA)

13:38 Call Admission Control Based Resource Allocation Scheme for LTE Uplink)) ((

Fang-Chang Kuo (National Ilan University, Taiwan); Hwang-Cheng Wang (National Ilan University, Taiwan); Chih-Cheng Tseng (National Ilan University, Taiwan); Kuo-Chang Ting (Minghsin University of Science and Technology, Hsinchu, Taiwan); Po En Liu (National I-Lan University, Taiwan)

13:56 Uplink Scheduling for Multi-Channel Multi-User Cognitive Radio Cellular Networks in Fading Channels)) (-

Po-Chiang Lin (Yuan Ze University, Taiwan)

14:14 Resilience in IMS: End-to-End Reliability Analysis Via Markov Reward Models)) *(

Chayapol Kamyod (Aalborg University & Center for TeleInfrastruktur, Denmark); Rasmus Hjorth Nielsen (Aalborg University & Center for TeleInfrastruktur, Denmark); Neeli Rashmi Prasad (Center for TeleInfrastructure (CTIF), Denmark); Ramjee Prasad (Aalborg University, Denmark)

14:32 Analytical Derivation of Reuse Pattern for Soft Frequency Reuse Based Femtocell Deployment)) *-

Suman Kumar (Indian Institute of Technology Madras, India); K Giridhar (Indian Institute of Technology, Madras, India)

14:50 - 15:10

B8: Coffee Break

15:10 - 16:40

IV8: Invited 8

Disaster-Resilient Networks (5)

Room: 2F Convention Hall

Chair: Hung-Yu Wei (National Taiwan University, Taiwan)

15:10 Effective Data Processing and Protection Techniques for Community Network Nodes *) +{

Naofumi Homma (Tohoku University, Japan); Takafumi Aoki (Tohoku University, Japan)

15:28 Protocol Optimization for Integrated Heterogeneous Networks in Disaster Areas *) +*

Yuichi Kawamoto (Tohoku University, Japan); Hiroki Nishiyama (Tohoku University, Japan); Nei Kato (Tohoku University, Japan)

15:46 A Primary Study on Location Estimation System for Ad-hoc Networks with Considering Incorrect Nodes *) ++

Yoshihiro Sugaya (Tohoku University, Japan); Masahito Okamoto (Tohoku University, Japan); Yuta Nakano (Tohoku University, Japan); Shinichiro Omachi (Tohoku University, Japan)

16:04 Joint Design on Load Balancing and Survivability for Resilient IP Networks *) +-

Po-Kai Tseng (Academia Sinica, Taiwan); Wei-Ho Chung (Academia Sinica, Taiwan)

SSR3: Systems, Standards, and Regulations 3

Spectrum Sharing and Allocation

Room: R201

Chair: Hung-Yun Hsieh (National Taiwan University, Taiwan)

15:10 Two-Stage DCF-based Access Scheme for Throughput Enhancement of OFDMA WLAN Systems *) , (

Kodai Shimamoto (Osaka University, Japan); Shinichi Miyamoto (Osaka University, Japan); Seiichi Sampei (Osaka University, Japan); Wenjie Jiang (NTT Network Innovation Laboratories, NTT Corporation & Research Engineer, Japan)

15:28 Indoor Broadband Use of 2.7-2.9 GHz Radar Spectrum: Case of Macedonia *) -

Pero Latkoski (Ss Cyril and Methodius University - Skopje, Macedonia, the former Yugoslav Republic of); Jovan Karamacoski (Faculty of Electrical Engineering and Information Technologies, Macedonia, the former Yugoslav Republic of); Liljana Gavrilovska (Ss Cyril and Methodius University - Skopje, Macedonia, the former Yugoslav Republic of)

15:46 Karnaugh-map Like Online Embedding Algorithm of Wireless Virtualization *) - (

Yang Mao (Tsinghua University, P.R. China); Yong Li (Tsinghua University, P.R. China); Lieguang Zeng (Tsinghua University, P.R. China); Depeng Jin (Tsinghua University, P.R. China); Li Su (Tsinghua University, P.R. China)

16:04 Differentiated-Pricing Based Power Allocation in Dense Femtocell Networks *) - -

Wenmin Ma (Beijing University of Posts and Telecommunications, P.R. China); Haijun Zhang (Beijing University of Posts and Telecommunications, P.R. China); Wei Zheng (Beijing University of Posts and Telecommunications, P.R. China); Xiangming Wen (Beijing University of Posts and Telecommunications, P.R. China)

16:22 Capability-based Access Control Delegation Model on the Federated IoT Network **)\$(

Bayu Anggoroajati (Aalborg Universitet, Denmark); Parikshit Narendra Mahalle (Aalborg University, Denmark); Neeli Rashmi Prasad (Center for TeleInFrastructure (CTIF), Denmark); Ramjee Prasad (Aalborg University, Denmark)

WN6: Wireless Networks 6

4G Communications

Room: R202

Chair: Shao-Yu Lien (National Taiwan University, Taiwan)

15:10 Hybrid Division Duplex for Cognitive Small Cell Networks **)\$(

Tony Q. S. Quek (Singapore University of Technology and Design (SUTD) & Institute for Infocomm Research, Singapore); Yong Sheng Soh (Institute for Infocomm Research, Singapore); Marios Kountouris (Supélec, France)

15:28 A Novel Distributed Cluster Combination Method for CoMP in LTE-A System

Hongbin Li (Beijing University of Posts and Telecommunications, P.R. China); Hui Tian (Beijing university of posts and telecommunications, P.R. China); Cheng Qin (Beijing University of Posts and Telecommunications, P.R. China); Yushan Pei (Beijing University of Posts and Telecommunications, P.R. China)

15:46 Joint Pricing and Power Control for OFDMA Femtocell Networks Using Stackelberg Game

Jingjing Zhang (Beijing University of Posts and Telecommunications, P.R. China); Zhenmin Zhao (Beijing University of Posts and Telecommunications, P.R. China); Wei Li (Beijing University of Posts and Telecommunications, P.R. China); Zhen Liu (Beijing University of Posts and Telecommunications, P.R. China); Liang Xin (Beijing University of Posts and Telecommunications, P.R. China)

16:04 Energy Efficient Cross-layer Resource Allocation Scheme Based on Potential Games in LTE-A

Dabing Ling (BUPT, P.R. China); Zhaoming Lu (BUPT, P.R. China); Wei Zheng (Beijing University of Posts and Telecommunications, P.R. China); Xiangming Wen (Beijing University of Posts and Telecommunications, P.R. China); Ying Ju (BUPT, P.R. China)

16:22 Shadowing Time-Scale Admission and Power Control for Small Cell Networks

Siew Eng Nai (Institute for Infocomm Research, Singapore); Tony Q. S. Quek (Singapore University of Technology and Design (SUTD) & Institute for Infocomm Research, Singapore); Mérouane Debbah (Supelec, France)

WN7: Wireless Networks 7

Channel Assignment and Mobility Management

Room: R203

Chair: Jeng-Ji Huang (National Taiwan Normal University, Taiwan)

15:10 Centralized Channel Assignment for IEEE 802.11 WLANs: Utilization MinMax-Sum

Micheal Driberg (Universiti Teknologi PETRONAS, Malaysia); Fu-Chun Zheng (The University of Reading, United Kingdom)

15:28 Performance Evaluation of Referral Selection Algorithms in Human Centric Communication Networks **,'

Yu-Feng Chou (National Taiwan University of Science and Technology, Taiwan);
Ray-Guang Cheng (National Taiwan University of Science and Technology, Taiwan);
Hsin-Heng Huang (National Taiwan University of Science and Technology, Taiwan)

15:46 An Analytical Model for Evaluating Outage and Handover Probability of Cellular Wireless Networks **('

Thanh Tung Vu (ENST Paris, France); Laurent Decreusefond (Telecom ParisTech & CNRS LTCl, France); Philippe Martins (Telecom Paristech, France)

16:04 Multi-Relay Selection Scheme Based on Quantum Particle Swarm Optimization in Relay Networks **(',

Jinlong Cao (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)

16:22 Comparative Performance Analysis on Dynamic Mobility Anchoring and Proxy Mobile IPv6 ***)'

Hassan Ali-Ahmad (Orange Labs & Telecom Bretagne, France); Meryem Ouzzif (Orange Labs, France); Philippe Bertin (Orange Labs, France); Xavier Lagrange (Institut Telecom - Telecom Bretagne, France)