

WCSP 2013 Technical Program

Communication Theory Symposium

CTS-01: Coding and Decoding

Date: Oct. 24, 2013
Time: 14:00pm – 15:30pm
Room: Bauhinia Room-2
Chair: Huazi Zhang, Zhejiang University, China

- 1. A Generalized Construction of Quaternary Periodic Complementary Sequence Sets**
Fanxin Zeng; Xiaoping Zeng; Lingna Xiao; Zhenyu Zhang; Guixin Xuan (Chongqing Communication Institute, P.R. China)
- 2. Length-Compatible PEG-CRT Algorithm for Random-Like LDPC Codes**
Xueqin Jiang (Chonbuk National University, Korea); Hongyun Guan (Donghua University, P.R. China); Moon Ho Lee; Sooyoung Kim (Chonbuk National University, Korea)
- 3. Adjusted Robust Soliton Distribution (ARSD) with Reshaped Ripple Size for LT Codes**
Kuo-Kuang Yen; Yen-Chin Liao; Chih-Lung Chen; Hsie-Chia Chang (National Chiao Tung University, Taiwan)
- 4. Precoded Kite Codes for the AWGN Channel**
Min Zhu; Yun Wei; Bao-Ming Bai (Xidian University, P.R. China); Xiao Ma (Sun Yat-sen University, P.R. China)
- 5. A Rateless Encoder With Adaptive Symbol Removal for AWGN and Fading Channels**
Kun Tu; Zhaoyang Zhang; Chuangmu Yao; Shaolei Chen (Zhejiang University, P.R. China)
- 6. On the Polar Codes for MIMO**
Xianbin Wang, Zhaoyang Zhang, Liang Zhang (Zhejiang University, P.R. China)

CTS-02: Relay communications

Date: Oct. 24, 2013
Time: 16:00pm – 17:30pm
Room: Bauhinia Room-2
Chair: Morgan Peng, Beijing University of Posts and Telecommunications, China

- 1. Two-Way Relay: The Most Suited for Compute-and-Forward**
William Liu (Imperial College London, United Kingdom)
- 2. Adaptive Window Width Control for Cyclic Shifted Pilot Aided Channel Estimation Suitable for SC-ANC Bi-Directional Relay Using Joint Tx/Rx MMSE-FDE**
Miyazaki; Tatsunori Obara; Fumiyuki

Adachi (Tohoku University, Japan)

- 3. Optimal Power Allocation Scheme for the Two-Way Relay Channel Using ANC in Cognitive Radio**
Jianhua Ge; Xiaoye Shi (Xidian University, P.R. China)
- 4. Performance of Antenna Selection for Two-Way Relay Networks with Physical Network Coding**
Kang Song; BaoFeng Ji; Yongming Huang; Luxi Yang (SouthEast University, P.R. China)
- 5. Opportunistic Relaying in Delay-constrained Mobile Relay Systems with Linear Mobility**
Xiaoyi Chen; Zhaoyang Zhang; Yu Zhang; Rui Yin; Wei Wang; Caijun Zhong (Zhejiang University, P.R. China)
- 6. Joint Modulation and Network Coding in Uplink Relaying Channels: A Complex-Valued 3-ary Approach for BPSK Modulation**
Xinqian Xie; Mugen Peng; Zhongyuan Zhao (BeijingUniversity of Posts and Telecommunications, P.R. China)

CTS-03: Estimation and Detection

Date: Oct. 25, 2013
Time: 14:00pm – 15:30pm
Room: Bauhinia Room-2
Chair: Xiao Han, Zhejiang University, China

- 1. A Simple Multi-Symbol Detector for CPM signals**
Pengcheng Yang; Xiaoyu Dang; Xiangbin Yu; Xudong Wang; Jing Tao (Nanjing University of Aeronautics and Astronautics, P.R. China)
- 2. Distorted Sparse Signal Estimation from Distributed Sign Measurements**
Xiao Cai; Zhaoyang Zhang; Caijun Zhong (Zhejiang University, P.R. China)
- 3. DCT-Based Channel Estimator for OFDM Systems: Threshold Setting and Leakage Estimation**
Xin Xiong; Bin Jiang; Xiqi Gao (Southeast University, P.R. China); Xiaohu You (National Mobile communication Research Lab., Southeast University, P.R. China)
- 4. A Novel Demodulation Approach for Modified Superposition Modulation Based on Decorrelation**
Zhipeng Xi; Jiang Zhu; Xin Man; Yongming Fu (National University of Defense Technology, P.R. China)
- 5. An Improved Decoding of Tail-biting Convolutional Codes for LTE Systems**

Lin Zhu; Ming Jiang; Chaopei Wu (Southeast University, P.R. China)

CTS-04: MIMO Communications

Date: Oct. 25, 2013
Time: 16:00pm – 17:30pm
Room: Bauhinia Room-2
Chair: Yongmin Huang, Southeast University, China

1. **SINR Prediction based on MU-MIMO in Large Scale Antenna Array System**
Zhaohua Lu; Dengkui Zhu; Xiaodan Zhang; Xianming Chen (ZTE Corporation, P.R. China)
2. **Transceiver Design for Multi-user MIMO AF Relay Systems with Bounded Channel Uncertainties**
Jun Liu; Zhengding Qiu (Beijing Jiaotong University, P.R. China)
3. **Proactive CCI Evaluation and Transmission Gain based Scheduling for MU-MIMO Broadcast Channel**
Ruixue Liu; Zhao Li (Xidian University, P.R. China); Liyuan Xiao (China Organizational Name Administration Center, P.R. China)
4. **Performance Analysis of Cross-Layer Design with Antenna Selection in Multiuser MIMO System**
Yan Liu; Xiangbin Yu; Xin Yin; Yang Li; Xiaomin Chen (Nanjing University of Aeronautics and Astronautics, P.R. China)
5. **On the Achievable Rates and Degrees of Freedom of Causally Cognitive MISO Broadcast Channels**
Jun Sun; Yingzhuang Liu; Guangxi Zhu (Huazhong University of Science and Technology, P.R. China)

CTS-05: Fading Channel and Performance Analysis

Date: Oct. 26, 2013
Time: 08:45am – 10:15am
Room: Bauhinia Room-2
Chair: Tao Wang, Shanghai University, China

1. **On the Optimum Energy Efficiency for Flat-fading Channels with Rate-dependent Circuit Power: Time Invariant Case**
Tao Wang (Shanghai University, P.R. China)
2. **Energy Efficiency of Transmit Diversity System in Correlated Channel**
Quan Zhou; Ying Yang; Li Chen; Guo Wei (University of Sci. & Tech. of China, P.R. China)
3. **Ergodic Capacity of Distributed Antenna Systems over Shadowed Nakagami-m Fading Channels**
Yun-Peng Wen; Jin-Yuan Wang; Ming Chen (Southeast University, P.R. China)

4. Queueing Analysis for Block Fading Rayleigh Channels in the Low SNR Regime

Yunquan Dong; Pingyi Fan (Tsinghua University, P.R. China)

5. Generation of 3-D Physical Fading Channel with Non-isotropic Scattering

Junfei Yang; Jingyu Hua; Weidang Lu; Limin Meng (Zhejiang University of Technology, P.R. China); Bin Jiang (Southeast University, P.R. China)

CTS-06: Miscellaneous Topics in Communication Theory

Date: Oct. 26, 2013
Time: 10:45am – 12:15pm
Room: Bauhinia Room-2
Chair: Rui Yin, Zhejiang Gongshang University, China

1. **A Class of Low Complexity Spectrum Sensing Algorithms Based on Statistical Covariances**
Ruixun Liu; Yufei Wu; Dongming Wang (Southeast University, P.R. China); Yu Yang (China Academic of Telecommunication & Technology, P.R. China); Shaoli Kang (CATT, P.R. China)
2. **Efficient Interference Mitigation for Small Cell Networks with Synchronization Error**
Ying Yuan; Hua Zhang; Wei Xu (Southeast University, P.R. China)
3. **An Efficient Turbo Receiver for LTE Downlink**
Ying Wang; Ming Jiang (Southeast University, P.R. China); Chunming Zhao (National Mobile Communications Research Laboratory, Southeast University, P.R. China)
4. **Constellation Design for PAM in Presence of Imperfect Doppler Frequency Shift Estimation**
Tao Li; Pingyi Fan (Tsinghua University, P.R. China)
5. **Implementation of Accelerated BCH Decoders on GPU**
Xiaoxia Qi; Xiao Ma; Do Li; Yuping Zhao (Peking University, P.R. China)

Signal Processing Symposium

SPS-01: Speech, Image, and Video Processing(I)

Date: Oct. 24, 2013

Time: 14:00pm – 15:30pm

Room: FR3 (Fanjing Hall)

Chair: Yinan Li, PLA University of Science and Technology, China

- 1. Accelerated Augmented Lagrangian Method for Image Reconstruction**
Zhenzhen Yang; Zhen Yang (Nanjing University of Posts and Telecommunications, P.R. China)
- 2. A Chirp-FFT Approach to Mitigate Multipath Influence on Radio Tomographic Imaging**
Zhenguan Wang; Heng Liu; Bu Xiangyuan; Jianping An (Beijing Institute of Technology, P.R. China)
- 3. Imaging by Root-MUSIC for Forward Looking Radar with Linear Array**
Guanhua Zhao; Fu Yaowen; Zhaowen Zhuang (National University of Defence Technology, P.R. China)
- 4. A Novel Single Channel Speech Enhancement Algorithm Based on Sparse Representation and Dictionary Learning**
Yinan Li (PLA University of Science and Technology, P.R. China)
- 5. A New Multi-channel Loudness Compensation Method Based on High Frequency Compression and Shift for Digital Hearing Aids**
Xulai Cao; Linghua Zhang; Wanzhen Gao (Nanjing University of Posts and Telecommunications, P.R. China)

SPS-02: Speech, Image, and Video Processing (II)

Date: Oct. 24, 2013

Time: 14:00pm – 15:30pm

Room: FR4 (Liuxia Hall)

Chair: Haoji Hu, Zhejiang University, China

- 1. Interactive Image Segmentation based on Geodesic Active Regions**
ChuanZhen Rong; Yongxing Jia; Yu Yang; Ying Zhu; Yuan Wang (College of Communications Engineering, PLA University Of Science And Technology, P.R. China)
- 2. Compressive Sensing Image Reconstruction using Universal Hidden Markov Tree Model**

Xiuping Yang; Pingping Xu; Hongyun Chu (Southeast University, P.R. China)

- 3. Visual Attention Based Image Zero Watermark Scheme With Ensemble Similarity**
Jie Shi; Qin Yan; Huijuan Shi; Yapeng Wang (Hohai University, P.R. China)
- 4. A research on registration and de-ghosting algorithm in image mosaic**
Yang Yang; Qiong Xu; Zongliang Gan; Feng Liu (Nanjing University of Posts and Telecommunications, P.R. China)
- 5. Image Super-resolution with facet improvement and detail enhancement based on local self examples**
He Jiang (Shanghai Jiao Tong University, P.R. China)
- 6. Image fusion based on TV-L1-convex constrained algorithm**
Qiwei Xie (Toyota Technological Institute, Japan); Qian Long (University of Science and Technology of China, P.R. China); Seiichi Mita (Toyota Technological Institute, Japan); Xi Chen (Institute of Automation, Chinese Academy of Sciences, P.R. China); An Jiang (Nokia China Investment Ltd, P.R. China)

SPS-03: Speech, Image, and Video Processing (III)

Date: Oct. 24, 2013

Time: 16:00pm – 17:30pm

Room: FR3 (Fanjing Hall)

Chair: Lianghao Wang, Zhejiang University, China

- 1. A Touchable Virtual Screen Interaction System With Handheld Kinect Camera**
Jianing Li; Yang Li; Junfei Zhang; Dongxiao Li; Lianghao Wang; Ming Zhang (Zhejiang University, P.R. China)
- 2. The optimization of side information generation algorithm for Wyner-Ziv video coding**
Jinqing Ding; Feng Liu; Zongliang Gan; Changhong Chen (Nanjing University of Posts and Telecommunications, P.R. China)
- 3. Dynamic Model Behavior Analysis of Small Groups Based on Particle Video**
Dongping Zhang; Jiao Xu; Yafei Lu; Huailiang Peng (China Jiliang University, P.R. China)
- 4. Dynamic Scenes Reconstruction Based on Foreground and Background Splitting**
Junfei Zhang; Yang Li; Jianing Li; Lianghao Wang; Dongxiao Li; Ming Zhang (Zhejiang University, P.R. China)

5. **ToF Depth Map guided Passive Stereo based on KNN searching**
Li-Wei Liu; Wang Lianghao (Zhejiang University, P.R. China)

Chang Chen; Weidong Chen (University of Science & Technology of China, P.R. China)

SPS-04: Estimation and Estimator

Date: Oct. 24, 2013
Time: 16:00pm – 17:30pm
Room: FR4 (Liuxia Hall)
Chair: Yunlong Cai, Zhejiang University, China

1. **Switched Model Sets-Based Estimators for Mobile Localization in Rough NLOS Conditions**
Tan-Jan Ho (Chung-Yuan Christian University, Taiwan)
2. **Closely Spaced Multipath Mitigation in GNSS Receiver Based on Maximum Likelihood Estimation**
Yan Gao; Qing Li (Beijing Information Science & Technology University, P.R. China)
3. **Variable is Good: Adaptive Sparse Channel Estimation using VSS-ZA-NLMS Algorithm**
Guan Gui; Shinya Kumagai; Abolfazl Mehbodniya; Fumiyuki Adachi (Tohoku University, Japan)
4. **Low-complexity 2D DOA Estimator of Coherently Distributed Noncircular Sources**
Xuemin Yang (University of Electronic Science and Technology of China, P.R. China); Guang-Jun Li (UESTC, P.R. China); Zhi Zheng (UESTC, P.R. China)
5. **Maximum Likelihood SNR Estimator for Coded M-APSK Signals in Slow Fading Channels**
Zhixin Li; Dewei Yang (Beijing Institute of Technology, P.R. China); Hua Wang (Modern Comm. Lab, P.R. China); Nan Wu; Jingming Kuang (Beijing Institute of Technology, P.R. China)
6. **DECOM: DOA Estimation with Combined MUSIC for Coprime Array**
Chengwei Zhou; Zhiguo Shi (Zhejiang University, P.R. China); Yujie Gu (University of Oklahoma, USA); Sherman Shen (University of Waterloo, Canada)

SPS-05: Radar

Date: Oct. 25, 2013
Time: 14:00pm – 15:30pm
Room: FR3 (Fanjing Hall)
Chair: Xiaojin Gong, Zhejiang University, China

1. **Optimum Weighted Cumulation Target Detection for Resonance Region Multi-carrier Radar**
Peng Chen; Lenan Wu (Southeast University, P.R. China)
2. **Design and Implementation of an Experimental ABS-S Based Passive Radar**
Xiaofei Yu; Mingyang Wang; Tianyun Wang;

3. **Passive Radar Detection Based on Advanced Broadcasting System-Satellite**
Xinfei Lu (USTC, P.R. China); Yuanhang Tang; Tianyun Wang; Chang Chen; Weidong Chen (University of Science & Technology of China, P.R. China)
4. **Analysis of the Properties of DVB-S Signal for Passive Radar Application**
Zeyue Sun; Tianyun Wang (University of Science and Technology of China, P.R. China); Tao Jiang (14th Research Institute of China Electronic Technology Group Corporation, P.R. China); Chang Chen; Weidong Chen (University of Science & Technology of China, P.R. China)
5. **The Improvement of Displacement Measurement Algorithms by Step Frequency Radar**
Yuan Sheng; Pingping Xu; Lei Li (Southeast University, P.R. China)
6. **Augmentation of Minimum Redundant Radar Observations for Improved Estimation Performance**
Gerrit Kalverkamp; Erwin Biebl (Technische Universität München, Germany)

SPS-06: MIMO

Date: Oct. 25, 2013
Time: 14:00pm – 15:30pm
Room: FR4 (Liuxia Hall)
Chair: Feng Wei, Tsinghua University, China

1. **Iterative Channel Estimation and Detection with Computational Efficient Lattice Basis Reduction for MIMO Systems**
Shengyue Dou; Lin Bai; Qiaoyu Li (Beihang University, P.R. China); Jinho Choi (Gwangju Institute of Science and Technology (GIST), Korea)
2. **MIMO Iterative Receiver using Lattice Reduction-Aided Detection and Successive Interference Cancellation**
Wei Bai (University of Maryland, USA); Qiaoyu Li; Lin Bai (Beihang University, P.R. China); Jinho Choi (Gwangju Institute of Science and Technology (GIST), Korea)
3. **Precoder Design for Dual-Stream MIMO Multicasting**
Baisheng Du; Xiaodong Xu (University of Science and Technology of China, P.R. China); Zilong Zhang (USTC, P.R. China); Xuchu Dai (University of Science and Technology of China, P.R. China)
4. **Effect of Pilot Contamination on Channel Estimation in Massive MIMO Systems**
Peng Xu (University of Kent, United Kingdom);

Jinkuan Wang (P.O.Box120 Northeastern
Qinhuangdao City Hebei Province, P.R. China);
Jiangzhou Wang (University of Kent, United
Kingdom)

5. **Delay Correlation Based Differential Space-Time Modulation for High Speed Train Transmission**

Chunxu Jiao; Zhaoyang Zhang; Jun Li (Zhejiang
University, P.R. China)

6. **Robust Precoding for Multicell MIMO Downlink Systems**

Cunhua Pan (Southeast University, P.R. China);
Cailuan Su (National Mobile Communications
Research Laboratory, Southeast University, P.R.
China); Ming Chen (Southeast University, P.R.
China)

SPS-07: Beamforming and Equalization

Date: Oct. 25, 2013

Time: 16:00pm – 17:30pm

Room: FR3 (Fanjing Hall)

Chair: Haiquan Wang, Hangzhou Dianzi University,
China

1. **Beamforming for Single Group Multicast Systems to Maximize the Access Rate**

Bo Du; Cunhua Pan (Southeast University, P.R.
China); Wence Zhang (Southeast University, United
Kingdom); Ming Chen; Lan Hui (Southeast
University, P.R. China)

2. **Joint User Selection and Multicast Beamforming in the Downlink Cochannel**

Lele Ge; Mingjie He; Zhenyuan Chen; Guo Wei
(University of Sci. & Tech. of China, P.R. China)

3. **Distributed Beamforming and Power Allocation in Two-Way Multi-Relay Networks with Second-Order Channel Statistics**

Yun Cao; Chintha Tellambura (University of Alberta,
Canada)

4. **Combined Relay Selection and Secure Beamforming for Decode-and-Forward Networks with Multiple Eavesdroppers**

Zhongjian Liu; Xiaoning Zhang; Chen Chen; Haige
Xiang (Peking University, P.R. China)

5. **Robust Blind Channel Equalization Based on Input Decision Information**

Lu Xu; Jinshu Chen; Yafeng Zhan; Jianhua Lu
(Tsinghua University, P.R. China); Defeng Huang
(University of Western Australia, Australia)

6. **Sparse Equalizer Design Under a Quadratic Constraint**

Pengfei Li; Zhiyong Wang; Huarui Yin (University of
Science and Technology of China, P.R. China)

SPS-08: Localization and Separation

Date: Oct. 25, 2013

Time: 16:00pm – 17:30pm

Room: FR4 (Liuxia Hall)

Chair: Nan Wu, Beijing Institute of Technology, China

1. **Multichannel Blind Deconvolution of Complex I/Q Independent Sources with Phase Recovery**

Fanglin Gu; Hang Zhang (PLA University of Science
& Technology, P.R. China); Yi Xiao (The University of
New South Wales, Australia)

2. **A Multitask Recovery Algorithm for Block-Sparse Signals**

Ying-Gui Wang (National University of Defense
Technology, P.R. China); Jian-Sheng Qu (Unit
91656, P.R. China); Zheng Liu; Wen-Li Jiang
(National University of Defense Technology, P.R.
China)

3. **A Robust Object Tracking Algorithm Based on SURF**

Dan Zhou; Dong Hu (Nanjing University of Posts
and Telecommunications, P.R. China)

4. **Particle Swarm Optimization-Based Particle Filter for Cooperative Localization in Wireless Networks**

Bin Li; Nan Wu (Beijing Institute of Technology, P.R.
China); Hua Wang (Modern Comm. Lab, P.R.
China); Desheng Shi; Weijie Yuan; Jingming Kuang
(Beijing Institute of Technology, P.R. China)

5. **Location Estimation in NLOS Environments using Geometric Centering Optimization Methods**

Zebin Xie; Lei Sun; Yunfang Wang (Beijing Institute
of Technology, P.R. China)

6. **Single Channel Time-varying Amplitude LFM Interference Blind Separation Based on Improved Particle Filter**

Lu Wei; Bangning zhang; Xiping Lu (PLA University
of Science and Technology, P.R. China)

Special Session with Invited Talk

SPS-09: Modulation and Detection

Date: Oct. 26, 2013

Time: 08:45am – 10:15am

Room: Bauhinia Room-1

Chair: Yabo Li, Zhejiang University, China

1. **What's Next After OFDM? (Invited Talk)**

Prof. Xianggen Xia, IEEE Fellow, University of
Delaware, USA

2. **Improved LAS detector in the Iterative Large MIMO Systems with LDPC Codes**

Chen Zheng; Yabo Li; Jie Zhong; Minjian Zhao;
Xiaomu Zhao (Zhejiang University, P.R. China)

3. **Affine Projection Based Decoder based on Diagonal Space-Time Block Codes in a Multiuser MIMO Downlink System**

Haiquan Wang; Luping Ma; Yuyu Jin; Lei Shen
(Hangzhou Dianzi University, P.R. China)

4. **An ECG Detection Algorithm Using Wavelet and Autocorrelation Transform**
 ChengHao Zhu; Feng Tian (Nanjing University of Posts and Telecommunications, P.R. China)

SPS-10: OFDM Systems

Date: Oct. 26, 2013
 Time: 08:45am – 10:15am
 Room: FR4 (Liuxia Hall)
 Chair: Xueqin Jiang, Donghua University, China

1. **Adaptive Sparse Channel Estimator for OFDM Systems**
 Yun Wu (Donghua University, P.R. China); Xiaolin Zhou (Fudan University, P.R. China); Wen Chen; Xiaofei Liao (Donghua University, P.R. China)
2. **An Online Algorithm of Energy-Efficient and Interference Suppression Beamforming for Cognitive MISO-OFDM Interference Channels**
 Cunhua Pan (Southeast University, P.R. China); Cailuan Su (National Mobile Communications Research Laboratory, Southeast University, P.R. China); Hong Ren; Ming Chen (Southeast University, P.R. China); Xue Gong (CUMT, P.R. China)
3. **Analysis of joint effect of Phase Noise, IQ Imbalance and Amplifier Nonlinearity in OFDM system**
 Shuqi Zhao; Xinning Zhu (Beijing University of Posts and Telecommunications, P.R. China); Haiyan Wang (China Academy of Telecommunications Research, P.R. China); Leijia Wu (University of Technology, Sydney, Australia)
4. **Entropy-Minimization Based I/Q Channel Errors Compensation for Stepped Frequency Radar**
 Xinghua Luo; Shougang Chai; Weidong Chen (University of Science & Technology of China, P.R. China)
5. **PAPR Reduction of LOFDM Signals with an Efficient Nonlinear Companding Transform**
 Siming Peng (College of Communications Engineering, PLA University of Science and Technology, P.R. China); Shen Yuehong (Institute of Communication and Engineering, P.R. China); Zhi Gang Yuan (Institute of Communication Engineering, PLA University, P.R. China); Wei Jian (College of Communications Engineering, PLA University of Science and Technology, P.R. China)
6. **Downlink Interference Mitigation for OFDMA Femtocell Networks**
 Hong Ren; Cunhua Pan (Southeast University, P.R. China); Wence Zhang (Southeast University, United Kingdom); Ming Chen (Southeast University, P.R. China)

SPS-11: Sensing and Recognition

Date: Oct. 26, 2013
 Time: 10:45am – 12:15pm
 Room: Bauhinia Room-1
 Chair: Yuan Wu, Zhejiang University of Technology, China

1. **Cooperative Spectrum Sensing Based on the Rao Test in Non-Gaussian Noise Environments**
 Xiaomei Zhu (Nanjing University of Technology, P.R. China); Benoit Champagne (McGill University, Canada); Wei-Ping Zhu (Concordia University, Canada)
2. **A Method of Evaluating Negative Utility of Information in Presence of SSDF Attack**
 Suqin Xu; Yitao Xu; Guoru Ding (PLA University of Sci. &Tech., P.R. China); Shuo Feng (College of Communications Engineering, PLAUST, P.R. China)
3. **Sparse Bayesian Learning for Compressed Sensing under Measurement Matrix Uncertainty**
 Shengchu Wang; Yunzhou Li; Wang Jing (Tsinghua University, P.R. China)
4. **Human action recognition based on latent-dynamic Conditional Random Field**
 Changhong Chen; Jie Zhang; Zongliang Gan (Nanjing University of Posts and Telecommunications, P.R. China)
5. **Human Action Recognition Using Labeled Latent Dirichlet Allocation Model**
 Jiahui Yang; Changhong Chen; Zongliang Gan; Xiuchang Zhu (Nanjing University of Posts and Telecommunications, P.R. China)
6. **Optimal Sensing Matrix Design with Hardware Friendliness**
 Chun-Shien Lu (Institute of Information Science, Academia Sinica, Taiwan); Da-Chun Lin (Academia Sinica, Taiwan)

SPS-12: Miscellaneous Topics in Signal Processing

Date: Oct. 26, 2013
 Time: 14:00pm – 15:30pm
 Room: FR4 (Liuxia Hall)
 Chair: Rui Yin, Zhejiang Gongshang University, China

1. **Joint Iterative Power Allocation and Interference Suppression Algorithm Using MSER Technique for Wireless Sensor Networks**
 Guijie Wang; Yunlong Cai; Minjian Zhao; Jie Zhong (Zhejiang University, P.R. China)
2. **Robust Base-Station Cooperation Scheme with Intelligent Information Processing**
 Ling Qin; Yonghua Li; Zhisong Bie; Jiaru Lin (Beijing

University of Posts and Telecommunications, P.R. China)

3. **Genetic Algorithm Optimized Memory Polynomial Digital Pre-distorter for RF Power Amplifiers**
Riaz Uddin Mondal; Tapani Ristaniemi; Munzura Doula (University of Jyväskylä, Finland)
4. **Jointly Distributed Transceiver Design for Multicell Systems with Low Complexity**
Cunhua Pan ; Bo Du (Southeast University, P.R. China); Cailuan Su (National Mobile Communications Research Laboratory, Southeast University, P.R. China); Lei Wu; Ming Chen (Southeast University, P.R. China)
5. **Cost Effective Hardware Based Demosaicking Algorithm for Embedded System**
Junshi Liu ; Yun Pan; Wen Ding (Zhejiang University, P.R. China); Ruohong Huan (Zhejiang University of Technology, P.R. China)
6. **Improvement and Implementation of Displacement Measurement Algorithm Based on FPGA**
Lei Li ; Pingping Xu; Yuan Sheng (Southeast University, P.R. China)

Wireless Communications Symposium

WCS-01: Two-way Relaying

Date: Oct. 24, 2013

Time: 14:00pm – 15:30pm

Room: FR2 (Yunshui Hall)

Chair: Rui Yin, Zhejiang Gongshang University, China

1. **A Code-Aided Iterative Receiver Applied to AF Two-Way Relay MC-CDMA Systems**
Zhebo Wang; Jie Zhong; Yunlong Cai; Minjian Zhao; Boya Qin (Zhejiang University, P.R. China)
2. **Design of Training-aided Transmission Schemes for the DC-STBC Based Two-Way Relaying Network**
Shi Yin; Fengkui Gong; Lianben Li; Nan Zhang (Xidian university, P.R. China)
3. **Hybrid Relaying and Jamming for Physical Layer Security Improvement in Two-Way Relay Networks**
Kuo Cao (Institute of Communication Engineering, PLA of Science and Technology, P.R. China); Xinrong Guan; Yueming Cai (Institute of Communications Engineering, PLAUST, P.R. China)
4. **Outage Analysis for Device-to-Device Communication Assisted by Two-Way Decode-and-Forward Relaying**
Yiyang Ni (Nanjing University of Posts and Telecommunications, P.R. China); Shi Jin (Southeast University, P.R. China); Ran Tian (Jiangsu Electric Power Information and Telecommunication Company, P.R. China); Kai-Kit Wong (University College London, United Kingdom); Hongbo Zhu; Shixiang Shao (Nanjing University of Posts and Telecommunications, P.R. China)
5. **Pareto-Optimal Power Allocation of Device-to-Device Communication with Two-Way Decode-and-Forward Helping Relay**
Yiyang Ni(Nanjing University of Posts and Telecommunications, P.R. China); Shi Jin (Southeast University, P.R. China); Hongbo Zhu; Shixiang Shao (Nanjing University of Posts and Telecommunications, P.R. China); Kai-Kit Wong (UCL, United Kingdom)
6. **Performance Analysis of Two-Way DF Relaying System with ARQ in the Presence of Co-Channel Interference**
Yanshan Long; Yuanyuan Gao; Xiaoming Xu (PLA University of Science and Technology, P.R. China); Kun Xu (PLA Academy of National Defense Information, P.R. China)

WCS-02: Femto Cell, Small Cell, HetNet

Date: Oct. 24, 2013

Time: 14:00pm – 15:30pm

Room: FR5 (Tianfeng Hall)

Chair: Mingwei Wu, Zhejiang University of Science and Technology, China

1. Heterogeneous Networks Community and Its Bandwidth Allocation via Public Goods Game

Hui Tian; Wei Xie; Youyun Xu (PLA University of Science & Technology, P.R. China); Wei Zhong (Institute of Communications Engineering, P.R. China); Dapeng Li (Nanjing University of Posts and Telecommunications, P.R. China)

2. Joint Power and Rate Control Using Game Theory in Heterogeneous Networks

Jun-hui Zhao; Jiao Wang (School of Electronic and Information Engineering Beijing Jiaotong University, P.R. China); Yi Gong (Nanyang Technological University, Singapore)

3. Stackelberg Game based Optimized Power Allocation Scheme for Two-tier Femtocell Network

Manzoor Ahmed; Mugen Peng; Ishtiaq Ahmad; Yuan Li; Munzali Abana (Beijing University of Posts and Telecommunications, P.R. China)

4. Energy Efficient and Interference Management with MISO Beamforming in Femtocells

Hong Ren; Cunhua Pan (Southeast University, P.R. China); Wence Zhang (Southeast University, United Kingdom); Ming Chen (Southeast University, P.R. China)

5. On MIB Detection under Cell Range Extension in LTE Heterogeneous Network

Zheng Jiang; Shan Yang; Peng Chen; Fengyi Yang; Qi Bi (Technology Innovation Center, China Telecom Corp. Ltd, P.R. China)

6. CQI Table Design to Support 256 QAM in Small Cell Environment

Qin Mu; Liu Liu; Lan Chen; Yu Jiang (DoCoMo Beijing Labs, P.R. China)

WCS-03: OFDM/OFDMA

Date: Oct. 24, 2013

Time: 16:00pm – 17:30pm

Room: FR2 (Yunshui Hall)

Chair: Yiqing Zhou, Institute of Computing Technology, Chinese Academy of Sciences, China

1. Doppler Rate Estimation for OFDM Based Communication Systems in High Mobility

Zhanwei Hou (Institute of Computing Technology,

P.R. China); Yiqing Zhou (Chinese Academy of Science, P.R. China); Jinglin Shi (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Jiangzhou Wang (University of Kent, United Kingdom)

2. Enhanced Data Detection in OFDM Systems Using Factor Graph

Jindan Yang (University of Western Australia, Australia); Qinghua Guo (University of Wollongong, Australia); Defeng Huang (University of Western Australia, Australia); Nordholm Sven (Curtin University of Technology, Australia)

3. Fairness-Based Resource Allocation in OFDMA Downlink with Imperfect CSIT

Maria George (IIT Madras, India); Ravinder D Koilpillai (Indian Institute of Technology Madras, India)

4. Joint Time-Frequency Subchannel Pairing for Buffer-Aided Multirelay OFDM Networks

Wendong Yang (Institute of Communications Engineering, P.R. China); Yueming Cai (Institute of Communications Engineering, PLAUST, P.R. China); Shiming Xu (College of Communications Engineering, PLA University of Science and Technology, P.R. China); Guoqin Kang (Academy of National Defense Information, P.R. China)

5. Performance of Turbo FDE Using Two-Dimensional LMMSE Based Iterative Decision-Directed Channel Estimation for DFT-Precoded OFDMA

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

6. A Novel Load Balancing Scheme in LTE and WiFi Coexisted Network for OFDMA System

Zunli Yang; Qinghai Yang; FengLin Fu (Xidian University, P.R. China); Kyung Sup Kwak (Inha University, Korea)

WCS-04: Multiuser MIMO

Date: Oct. 24, 2013

Time: 16:00pm – 17:30pm

Room: FR5 (Tianfeng Hall)

Chair: Mingwei Wu, Zhejiang University, of Science and Technology, China

1. Antenna Subset Selection in MU large-scale MIMO Systems

Yan Ni; Wence Zhang; Ming Chen (Southeast University, P.R. China)

2. Energy Harvesting Balancing Technique for Robust Beamforming in Multiuser MISO SWIPT System

Haiyang Zhang; Kang Song; Yongming Huang; Yang Luxi (SouthEast University, P.R. China)

3. Precoding for MU-MIMO System in Low Scattering

Channel Environments

Yingqi Chai; Qinghe Du; Pinyi Ren (Xi'an Jiaotong University, P.R. China)

4. Transmission Mode Switching for LTE-Advanced Downlink Multi-user MIMO Systems

Xiaolong Yu; Shi Jin (Southeast University, P.R. China); Jue Wang (National Mobile Communications Research Laboratory, P.R. China)

5. Non-Conservative Robust Joint Transmission Beamforming for Multicell Multiuser Systems

Zhou Ziquan; He Shiwen (School of Information Science and Engineering, Southeast University, P.R. China); Zhaohua Lu (ZTE Corporation, P.R. China); Yongming Huang; Haiming Wang; Yang Luxi (SouthEast University, P.R. China)

6. User Assignment for MU-MIMO Downlink System Based on Munkres Algorithm

Qiang Sun; Yun Xue; Yuan Zhang; Shi Jin (Southeast University, P.R. China); Xin Li (Liuzhou Railway Technical College, P.R. China); Xiqi Gao (Southeast University, P.R. China)

WCS-05: Optical Access and Visible Light Communications

Date: Oct. 25, 2013

Time: 14:00pm – 15:30pm

Room: FR2 (Yunshui Hall)

Chair: Jiaheng Wang, Southeast University, China

1. Design of Wireless Optical Access System using LED Based Android Mobile

Lipeng Fan; Liwei Ding; Fang Liu (Nanjing University of Posts and Telecommunications, P.R. China); Yongjin Wang (NJUPT, P.R. China)

2. Dimming Scheme Analysis for Pulse Amplitude Modulated Visible Light Communications

Jin-Yuan Wang; Jun-Bo Wang; Ming Chen (Southeast University, P.R. China); Xiaoyu Song (Portland State University, USA)

3. Free-Space Optical Communications Using All-Optical Relays over Weak Turbulence Channels with Pointing Errors

Jin-Yuan Wang; Jun-Bo Wang; Ming Chen (Southeast University, P.R. China); Qing-Song Hu (Nanjing University of Aeronautics and Astronautics, P.R. China); Nuo Huang; Rui Guan; Linqiong Jia (Southeast University, P.R. China)

4. Performance Analysis of the Imaging Receivers Using a Hemispherical Lens for Visible Light Communications

Baolong Li; Xiaoquan Lai; Jiaheng Wang; Xiao Liang (Southeast university, P.R. China); Chunming Zhao (National Mobile Communications Research Laboratory, Southeast University, P.R. China)

5. PSO-based LED Deployment Optimization for Visible Light Communications

Rui Guan; Jin-Yuan Wang; Yun-Peng Wen; Jun-Bo Wang; Ming Chen (Southeast University, P.R. China)

6. The Demonstration of Wireless Access via Visible Light Communications

Liwei Ding; Fang Liu; Zhiqiang Yu; Yongjin Wang (Nanjing University of Posts and Communications, P.R. China)

WCS-06: MIMO (I)

Date: Oct. 25, 2013

Time: 14:00pm – 15:30pm

Room: FR5 (Tianfeng Hall)

Chair: Youyun Xu, PLA University of Science and Technology, China

1. Improving coverage in mm-wave system by optimized MIMO geometry

Tommaso Cella (NTNU, Norway); Pål Orten (ABB Corporate Research, Norway)

2. An Enhanced Beamforming Algorithm for Three Dimensional MIMO in LTE-Advanced Networks

Yan Li; Xiaodong Ji; Mugen Peng; Yuan Li; Chao Huang (Beijing University of Posts and Telecommunications, P.R. China)

3. Compressive Sensing Based Overhead Reduction Scheme in Multi-antenna Downlink Management

Jianxiong Jin; Zhifeng Zhao; Rongpeng Li (Zhejiang University, P.R. China); Honggang Zhang (Université Européenne de Bretagne (UEB) and Supelec, France)

4. A Doubly Iterative Space-Time Nonlinear Receiver with Hybrid Time-Frequency Domain Processing for Single-Carrier MIMO Systems

Ke Zhong; Shaoqian Li (University of Electronic Science and Technology of China, P.R. China)

5. Joint CFO and Sparse Channel Estimation for MIMO-OFDM Systems via the SAGE Algorithm

Yang Xu; Jie Zhong; Yunlong Cai; Minjian Zhao; Bo Chen (Zhejiang University, P.R. China)

6. Effect of Joint Modulation and Coding Scheme Selection on Turbo SIC for OFDM-MIMO Multiplexing

Bing Han; Teppei Ebihara (Tokyo City University, Japan); Hidekazu Taoka; Teruo Kawamura (NTT DOCOMO, INC., Japan); Mamoru Sawahashi

(Tokyo City University, Japan)

WCS-07: MIMO (II)

Date: Oct. 25, 2013

Time: 16:00pm – 17:30pm

Room: FR2 (Yunshui Hall)

Chair: Chenhao Qi, Southeast University, China

1. **Joint User Pairing and Resource Allocation for Virtual MIMO in uplink SC-FDMA System**

Chunliang Wu; Li Chen; Guo Wei (University of Sci. & Tech. of China, P.R. China)

2. **Leakage-based Transceiver Designs for MIMO Interfering Broadcast Channels**

Piya Patcharamaneepakorn; Angela Doufexi; Simon Armour (University of Bristol, United Kingdom)

3. **Linear Minimum-Distance Precoding for MIMO Systems Using Quadrature Amplitude Modulation**

Xiaodong Xu; Zhiyong Chen; Xuchu Dai (University of Science and Technology of China, P.R. China)

4. **Fixed Effort Sphere Decoder for MIMO OFDM Systems**

Nora Tax (Universitaet der Bundeswehr Munich, Germany); Berthold Lankl (University of Federal Armed Forces Munich, Germany)

5. **Low-Complexity Layered Joint Detection and Decoding for LDPC Coded Large-MIMO Systems**

Xiaomu Zhao; Yabo Li; Jie Zhong; Minjian Zhao; Chen Zheng (Zhejiang University, P.R. China)

6. **Spatial Orthogonality-Based Pilot Reuse for Multi-cell Massive MIMO Transmission**

Mingmei Li; Shi Jin; Xiqi Gao (Southeast University, P.R. China)

WCS-08: Cognitive Radio (I)

Date: Oct. 25, 2013

Time: 16:00pm – 17:30pm

Room: FR5 (Tianfeng Hall)

Chair: Xin Liu, Nanjing University of Aeronautics and Astronautics, China

1. **A MWM Relay Assignment Strategy Based on Spectrum Availability for Cognitive Radio Networks**

Tianwei Cao; Wei Xie; Cong Wang; Youyun Xu (PLA University of Science & Technology, P.R. China)

2. **HMM-Based Primary User Activity in GSM via Spectrum Measurements**

Hang Xie; WanBin Tang; Yijin Wen; Shaoqian Li (University of Electronic Science and Technology

of China, P.R. China)

3. **Joint Optimal Sensing Time and Number of Cooperative Users in OR-RULE Cooperative Spectrum Sensing**

Xin Liu; Weizhi Zhong (Nanjing University of Aeronautics and Astronautics, P.R. China); Liang Ye; Qingzhong Li (Harbin Institute of Technology, P.R. China)

4. **Optimization of Cooperative Sensing in Interference-Aware Cognitive Radio Networks over Imperfect Reporting Channel**

Kan Changju; Fei Song; Zheng Xueqiang (Institute of Communications Engineering, PLA University of Sci. & Tech., P.R. China); Guoru Ding (PLA University of Sci. & Tech., P.R. China)

5. **Optimal Cooperative Spectrum Sensing in Multi-channel Cognitive Radio Networks**

Jinling Xu; Ming Chen; Nan Wang (Southeast University, P.R. China)

6. **Multiuser Opportunistic Spectrum Access in Cognitive Radio Networks: An Optimal Stopping Approach with Spectrum Partition**

Yang Chen; Jin Chen; Yuhua Xu; Chenglong Xu (PLA University of Sci. and Tech., P.R. China)

WCS-09: Cognitive Radio (II)

Date: Oct. 26, 2013

Time: 08:45am – 10:15am

Room: FR3 (Fanjing Hall)

Chair: Yuan Wu, Zhejiang University of Technology, China

1. **Optimal Cooperative Sensing and Resource Allocation in Cognitive Radio Networks**

Jinling Xu; Ming Chen; Nan Wang (Southeast University, P.R. China)

2. **Detection of Primary User Emulation Attacks Based on Compressive Sensing in Cognitive Radio Networks**

Manman Dang; Zhifeng Zhao (Zhejiang University, P.R. China); Honggang Zhang (Université Européenne de Bretagne (UEB) and Supelec, France)

3. **Optimal Distributed Cooperative Node Selection for Multimedia Transmission Improvement in Cognitive Radio Networks**

Chen Dan; Chang Nie; Yun Hu (China Unicom, P.R. China)

4. **An Online Energy Allocation Strategy for Energy Harvesting Cognitive Radio Systems**

Xuemin Gao; Wenjun Xu; Shengyu Li; Jiaru Lin
(Beijing University of Posts and
Telecommunications, P.R. China)

5. **Joint Optimization of Feedback Overhead and
Detection Threshold for Cooperative Spectrum
Sensing in LTE Cognitive Systems**

Shengchao Lin; Ming Chen; Jin-Yuan Wang
(Southeast University, P.R. China)

6. **Performance Improvements of Interference
Alignment with Multiuser Diversity in Cognitive
Radio Networks**

Ying He; Hongxi Yin (Dalian University of
Technology, P.R. China); F. Richard Yu (Carleton
University, Canada); Nan Zhao (Dalian University of
Technology, P.R. China)

WCS-10: Channel Modelling and Estimation

Date: Oct. 26, 2013

Time: 08:45am – 10:15am

Room: FR5 (Tianfeng Hall)

Chair: Yunlong Cai, Zhejiang University, China

1. **Channel Maps and Stochastic Models in Elevation
based on Measurements in Operating Networks**

Yu Jiwei; Xuefeng Yin; Nan Zhang (Tongji University,
P.R. China); Zhimeng Zhong (Huawei Technology
Company, P.R. China); Weiming Duan (Huawei,
P.R. China); Jiajing Chen (Tongji University, P.R.
China)

2. **Dual-Polarized Channel Characterization based
on Measurements in In-service UMTS Networks**

Wenjie Zhang; Xuefeng Yin; Yongyu He; Yu Jiwei;
Nan Zhang (Tongji University, P.R. China); Zhimeng
Zhong (Huawei Technology Company, P.R. China);
Weiming Duan; Xiaomei Zhang (Huawei, P.R.
China); Elisa Sayrol (Universitat Politecnica de
Catalunya, Spain)

3. **Research on Radio Propagation Modeling of City
Impact in 3D Perspective**

Xiaoxing Yu (TELECOM ParisTech, France); Jing
Feng (Southeast University, P.R. China)

4. **Channel Estimation for Two-Way Relay Networks
with Imperfect Synchronization**

Xinqian Xie; Mugen Peng; Zhongyuan Zhao
(Beijing University of Posts and
Telecommunications, P.R. China); Chonggang
Wang (InterDigital Communications, USA)

5. **Time-domain-cascade-correlation Timing
Advance Estimation Method in LTE-A Super
Coverage**

Longfei Wei; Xiaohui Li; Yaying Wu; Yongqiang Hei
(Xidian University, P.R. China)

6. **Turbo Equalization Based on Compressive Sensing**

Channel Estimation in Wideband HF Systems

Junke Ying; Jie Zhong; Minjian Zhao; Yunlong Cai
(Zhejiang University, P.R. China)

WCS-11: Energy Efficiency

Date: Oct. 26, 2013

Time: 10:45am – 12:15pm

Room: FR3 (Fanjing Hall)

Chair: Liping Qian, Zhejiang University of Technology,
China

1. **Dynamic Base Station Sleeping Scheme for
Potential Super Density Networks**

Guo Li; Shi Jin (Southeast University, P.R. China);
Fu-Chun Zheng (The University of Reading, United
Kingdom); Xiqi Gao; Xiaoyu Wang (Southeast
University, P.R. China)

2. **Energy Efficiency of Partial-Cooperative Multi-cell
System Based On Interference Zero-Forcing**

Junlin Zhang; Xiangyang Wang; Wanlin Li
(Southeast University, P.R. China)

3. **Energy-Sensitive Cooperative Spectrum Sharing: A
Contract Design Approach**

Zilong Zhou; Xinxin Feng; Xiaoying Gan (Shanghai
Jiao Tong University, P.R. China)

4. **A High Efficiency Class-S RF Power Amplifier with
Multi-bit Bandpass Delta-Sigma Modulator for
Digital Transmitter**

Qiang Zhou; Xiao Tan; Lei Zhu; Jiang Chen
(Nanjing Telecommunication Technology Institute,
P.R. China)

5. **Energy-Aware Joint Source-Channel Coding
Control for Quality-Optimized Wireless Multimedia
Communications**

Qin Wang (Nanjing University of Posts and
Telecommunications, P.R. China); Wei Wang
(South Dakota State University, USA); Shi Jin
(Southeast University, P.R. China); Hongbo Zhu
(Nanjing University of Posts and
Telecommunications, P.R. China)

6. **Power Efficient Multicast Transmission Framework
with QoS Awareness**

Zheng Chang; Tapani Ristaniemi (University of
Jyväskylä, Finland)

WCS-12: Performance Analysis (I)

Date: Oct. 26, 2013

Time: 10:45am – 12:15pm

Room: FR5 (Tianfeng Hall)

Chair: Caijun Zhong, Zhejiang University, China

1. **BER Analysis of Multiuser Relaying Networks with
Receive Antenna Selection**

Liang Yang (Guangdong University of Technology, P.R. China); Zhixiong Lin (Jinan University, P.R. China)

2. **Outage Analysis of MIMO DF Relay Systems with Partial N(th)-Best Relay Selection Scheme in the Presence of Co-Channel Interference**
Guoxin Li; Jin Chen; Yuzhen Huang (PLA University of Science & Technology, P.R. China)
3. **Ergodic Capacity Analysis of Dual-Hop ZF/MRT Relaying Systems with Co-channel Interference**
Guangxu Zhu; Caijun Zhong (Zhejiang University, P.R. China); Himal A Suraweera (University of Peradeniya, Sri Lanka); Zhaoyang Zhang (Zhejiang University, P.R. China); Chau Yuen (Singapore University of Technology and Design, Singapore)
4. **Transmission Strategies Selection for Cellular Networks**
Xu Li; Chen Zhang; Huarui Yin (University of Science and Technology of China, P.R. China); Ying Xu (Huawei, USA); Guo Wei (University of Sci. & Tech. of China, P.R. China)
5. **Performance Analysis and Comparison of Dual-hop Amplify-and-forward Relaying over Mixture Gamma and Generalized-K Fading Channels**
Weijun Cheng (Minzu University of China, P.R. China)
6. **Average Secrecy Rate Analysis with Relay**
Chunxiao Cai; Yueming Cai; Weiwei Yang (Institute of Communications Engineering, PLAUST, P.R. China); Wendong Yang (Institute of Communications Engineering, P.R. China)

WCS-13: Performance Analysis (II)

Date: Oct. 26, 2013
Time: 14:00pm – 15:30pm
Room: Bauhinia Room-2
Chair: Fanggang Wang, Beijing Jiaotong University, China

1. **Channel Capacity Analysis for Molecular Communication with Continuous Molecule Emission**
Qiang Liu (University of Electronic Science and Technology of China, P.R. China); Kun Yang (University of Essex, United Kingdom); Peng He (University of Electronic Science and Technology of China, P.R. China)
2. **A novel Markov-chain-based method for throughput analysis in truncated cooperative HARQ systems**
Hualiang Chen (PLA University of Science and Technology, P.R. China); Yueming Cai; Weiwei

Yang; Yingbo Hu (Institute of Communications and Engineering, PLA UST, P.R. China)

3. **Combining Spatial Modulation and VBLAST/STBC for Correlated Rayleigh Fading Channels Capacity and Performance Analysis**
Hong Liu; Jianping Zheng; Ying Li (University of Xidian, P.R. China)
4. **Comprehensive Evaluation of Cumulant-based and Kolmogorov-Smirnov-based Modulation Classifiers**
Jingwen Zhang; Fanggang Wang; Zhangdui Zhong (Beijing Jiaotong University, P.R. China)
5. **Outage Probability Analysis of Multi-hop Free Space Optical Communications over Strong Turbulence Channels**
Qing-Song Hu (Nanjing University of Aeronautics and Astronautics, P.R. China); Jun-Bo Wang; Jin-Yuan Wang; Ming Chen (Southeast University, P.R. China); Xiaoyu Song (Portland State University, USA)
6. **Performance Analysis of Eigenvalue-based Sensing Algorithm with Monte-Carlo Threshold**
Lei Wang; Baoyu Zheng; JingWu Cui; Haifeng Hu (Nanjing University of Posts and Telecommunications, P.R. China)

WCS-14: Performance Analysis (III)

Date: Oct. 26, 2013
Time: 14:00pm – 15:30pm
Room: FR3 (Fanjing Hall)
Chair: Hangguan Shan, Zhejiang University, China

1. **Performance Analysis of Partial Relay Selection With Feedback Delay and Co-channel Interference**
Xuanxuan Tang; Yueming Cai; Weiwei Yang (Institute of Communications Engineering, PLAUST, P.R. China); Tao Zhang (PLA University of Science and Technology, P.R. China)
2. **Performance Analysis of Transmit Beamforming and Relay Selection with Feedback Delay and Channel Estimation Errors**
Wang Lei (PLA University of Science and Technology, P.R. China); Yueming Cai; Weiwei Yang (Institute of Communications Engineering, PLAUST, P.R. China); Wendong Yang (Institute of Communications Engineering, P.R. China)
3. **Beamforming and Alamouti STBC Combined Downlink Transmission Schemes in Communication Systems For High-Speed Railway**
Meng Cheng; Xuming Fang; Li Yan (Southwest JiaoTong University, P.R. China)

4. **Performances of Amplify-and-Forward based Wireless Relay Networks with Traveling-Wave Tube Amplifiers**

Chao Zhang; Ying Zhang; Zhenzhen Gao (Xi'an Jiaotong University, P.R. China)

5. **Outage Analysis of Spectrum Sharing Relay Systems with Multi-Secondary Destinations in the Presence of Primary User's Interference**

Yuzhen Huang (PLA University of Science & Technology, P.R. China); Fawaz Al-Qahtani (Texas A&M University at Qatar, Qatar); Caijun Zhong (Zhejiang University, P.R. China); Qihui Wu (PLA University of Sci. & Tech., P.R. China)

6. **Performance Analysis of Dual-Hop DF Relaying in G Fading Channel in the Presence of Co-Channel Interference**

Jie Yang; Yunfang Wang; Zebin Xie (Beijing Institute of Technology, P.R. China)

WCS-15: Resource Allocation

Date: Oct. 26, 2013

Time: 14:00pm – 15:30pm

Room: FR5 (Tianfeng Hall)

Chair: Li Wang, Beijing University of Posts and Telecommunications, China

1. **Power Allocation of Dynamic Point Blanking for Downlink CoMP in LTE-Advanced**

Mingju Li; Xiang Yun (DOCOMO Beijing Communications Laboratories Co., Ltd., P.R. China); Satoshi Nagata (NTT DoCoMo, Inc., Japan); Lan Chen (DOCOMO Beijing Communication Laboratories Co., Ltd, P.R. China)

2. **Power Allocation Strategy for MIMO Broadcast Channels with Receiver Cooperation**

Hongliang Mao; Wei Feng; Yukui Pei; Ning Ge (Tsinghua University, P.R. China)

3. **Radio Resource Allocation for Wideband GEO Satellite Mobile Communication System**

Long Yang (National Mobile Communications Research Laboratory, Southeast University, P.R. China); Yuan Zhang (Southeast University, P.R. China); Xin Li (Liuzhou Railway Technical College, P.R. China); Xiqi Gao (Southeast University, P.R. China)

4. **Energy-Efficient Resource Allocation in Cooperative Wireless Network Using Nash Bargaining Solution**

Bowen Duan; Yueming Cai; Jianchao Zheng (PLA University of Science and Technology, P.R. China); Wendong Yang (Institute of Communications Engineering, P.R. China)

5. **Recursive Geometric Water-filling for Wireless Links with Hybrid Energy Systems**

Peter He; Lian Zhao (Ryerson University, Canada); Sheng Zhou; Zhisheng Niu (Tsinghua University, P.R. China)

6. **Multi-Channel Access in Wireless Networks Using Interference-Aware Channel Segregation Based Dynamic Channel Assignment**

Katsuhiko Temma; Yuki Matsumura; Fumiyuki Adachi (Tohoku University, Japan)

WCS-16: Scheduling and Selection

Date: Oct. 26, 2013

Time: 16:00pm – 17:30pm

Room: Bauhinia Room-2

Chair: Huifang Chen, Zhejiang University, China

1. **A Coordinated Scheduling Method for ICI Mitigation Using Statistical CSI**

Shi Jin; Qiang Sun; Xiqi Gao (Southeast University, P.R. China); Chongning Na; Atsushi Harada (DOCOMO Beijing Communications Laboratories Co., Ltd., P.R. China)

2. **A Unified TDMA-Based Scheduling Protocol for Vehicle-to-Infrastructure Communications**

Rongqing Zhang (Peking University, P.R. China); Jinsung Lee (Peking University, Korea); Xia Shen; Xiang Cheng (Peking University, P.R. China); Liuqing Yang (Colorado State University, USA); Bingli Jiao (Peking University, P.R. China)

3. **Distributed Link Scheduling for Congestion Control in Multihop Wireless Network**

Sha Dong; Qinghai Yang; FengLin Fu (Xidian University, P.R. China); Kyung Sup Kwak (Inha University, Korea)

4. **Multuser Scheduling Algorithms for GEO Satellite Mobile Communications with Dual-Polarized Antenna and Offset Single-Carrier Modulation**

Liming Wang; Yuan Zhang (Southeast University, P.R. China); Xin Li (Liuzhou Railway Technical College, P.R. China); Xiqi Gao (Southeast University, P.R. China)

5. **Mutual Interference-based Relay Selection and Transmission Scheme for mmWave Wireless Networks**

Hongyun Chu; Pingping Xu (Southeast University, P.R. China)

6. **Optimal Channel Selection in Multi-User Multi-Channel Secondary Networks**

Muhammad Sibtain Hamayun; Yi Gong (Nanyang

Technological University, Singapore)

WCS-17: Cooperative Communications and Distributed Wireless Systems

Date: Oct. 26, 2013

Time: 16:00pm – 17:30pm

Room: FR3 (Fanjing Hall)

Chair: Li Wang, Beijing University of Posts and Telecommunications, China

1. **Distributed Cooperative Multi-cell Precoding with Power Constraints and Partial CSI**

Zhang Chao (Southeast University, P.R. China)

2. **An Opportunistic Network-Coded Cooperative Uplink Transmission Scheme For Wireless Multi-Relay Networks**

Jian Wang (PLA University of Science and Technology, P.R. China); Kui Xu (Institute of Communications Engineering, PLAUST, P.R. China); Lianguo Wu; Youyun Xu (PLA University of Science & Technology, P.R. China)

3. **Opportunistic Role of Destination Transition Protocol For Two-Destinations AF Relaying Networks**

Qizhong Lin; Dongmei Zhang (PLA University of Science and Technology, P.R. China); Kui Xu (Institute of Communications Engineering, PLAUST, P.R. China); Wei Xie (PLA University of Science and Technology, P.R. China)

4. **Research on the Cooperative BSs' Number of Coordinated Multi-Point Transmission with Perfect Feedback**

Jian-xin Dai (Southeast University, P.R. China); Jingwei Liang (Nanjing University of Posts and Telecommunication, P.R. China); Ming Chen (Southeast University, P.R. China); Alvin Lee (NJUPT, P.R. China); Jun Zhou (NUPT, P.R. China); Yang Zhou (Nanjing University of Posts and Telecommunications, P.R. China)

5. **Antenna Location Design for Distributed Antenna Systems with Pilot Contamination**

Hongrui Wang; Dongming Wang; Ruixun Liu; Hongxiang Xie; Zhaohui Yang (Southeast University, P.R. China)

6. **QoS-Based Anti-Jamming Algorithm Design for Distributed Wireless Networks**

Gengxin Li; Zunwen He; Chengwen Xing; Cunxiang Chen; Qiyuan Liao (Beijing Institute of Technology, P.R. China)

WCS-18: Miscellaneous Topics in Wireless Communications

Date: Oct. 26, 2013

Time: 16:00pm – 17:30pm

Room: FR5 (Tianfeng Hall)

Chair: Fanggang Wang, Beijing Jiaotong University, China

1. **The Power Spectral Density of Multiuser Continuous Phase Modulation Systems**

Bing Li; Bao-Ming Bai (Xidian University, P.R. China); Jinfang Dou (Science and Technology on Space Microwave Laboratory, P.R. China)

2. **A 1-V, 800-MHz CMOS Class-E Power Amplifier with Power Control for Wireless Sensor Network**

Jinye Cai; Zhiqun Li (Southeast University, P.R. China)

3. **Iterative Collision Recovery for OFDM based WLANs**

Liang Qian; Lianghui Ding; Cheng Zhi; Feng Yang (Shanghai Jiaotong University, P.R. China)

4. **A New PSS Design and Identification for Global Coverage Multi-Beam S-LTE Using Generalized Zadoff-Chu Sequences**

Zhuming Deng; Haiming Wang; Mingkai Tang; XiQi Gao (Southeast University, P.R. China); Xiaohu You (National Mobile communication Research Lab., Southeast University, P.R. China)

5. **Clustering-based Data Transmission Algorithms for VANET**

Rong Chai; Bin Yang; Lifan Li; Xiao Sun; Qian-bin Chen (Chongqing university of Posts and telecommunications, P.R. China)

6. **Vertical Handoff Modeling and Simulation in VANET Scenarios**

Dawei Mu; Xianlei Ge; Rong Chai (Chongqing University of Posts and Telecommunications, P.R. China)

Wireless Networking Symposium

WNS-01: Resource Allocation (I)

Date: Oct. 24, 2013

Time: 14:00pm – 15:30pm

Room: FR6 (Huanbi Hall)

Chair: Bin Cao, Harbin Institute of Technology
Shenzhen Graduate School, China

- 1. Auction Based Channel Allocation in Multi-hop Networks**
Chengyu Lin (Naval Aeronautical Engineering Institute Qingdao Branch, P.R. China); Tuo Yu; Riheng Jia; Feng Yang; Xiaoying Gan (Shanghai Jiao Tong University, P.R. China)
- 2. Dynamic Channel Allocation-based Call Admission Control in Cognitive Radio Networks**
Zhifeng Ni; Hangguan Shan (Zhejiang University, P.R. China); Wei Shen (Georgia Institute of Technology, USA); Jian Wang; Aiping Huang (Zhejiang University, P.R. China); Xin Wang (Fudan University, P.R. China)
- 3. An Efficient Beacon Rate Adaptation Scheme for Vehicular Networks**
Linying Liu; Xinhong Wang; Chao Wang; Fuqiang Liu (Tongji University, P.R. China)
- 4. BER Analysis and Optimization for Differential Cooperative Networks with Relay Selection**
Kun Zhao; Bangning Zhang; Kegang Pan; Aijun Liu; Daoxing Guo (PLA University of Science and Technology, P. R. China)
- 5. Secrecy-based Channel Assignment for Device-to-Device Communication: An Auction Approach**
Jianting Yue; Chuan Ma; Hui Yu; Zhen Yang; Xiaoying Gan (Shanghai Jiao Tong University, P.R. China)
- 6. Recipient group based two-phase resource allocation for SVC multicast over wireless relay networks**
Hao Zhou (University of Science and Technology of China, P.R. China); Yusheng Ji (National Institute of Informatics, Japan); Baohua Zhao (, P.R. China)

WNS-02: Resource Allocation (II)

Date: Oct. 24, 2013

Time: 16:00pm – 17:30pm

Room: FR6 (Huanbi Hall)

Chair: Yuanguo Bi, Northeastern University, China

- 1. Joint Frequency and Scrambling Code Allocation for TD-SCDMA Cellular Network Optimization**
Cheng Wang (Zhejiang University, P.R. China); Zhouyun Wu (Technology Innovation Center,

China Telecom, P.R. China); Aiping Huang; Hangguan Shan (Zhejiang University, P.R. China); Liang Shen (China Mobile Group Design Institute Co. Ltd., P.R. China); Zhoushi Xiong (China Mobile Group Zhejiang Company Limited, P.R. China)

- 2. Dynamic Soft Frequency Reuse based on Sector Factor for LTE Downlink Transmission**
Panpan Zhang; Yijun Mo; Bang Wang (Huazhong University of Science and Technology, P.R. China)
- 3. An Unified QoS-aware Rate Control Scheme in Vehicular WiFi Networks**
Yuanguo Bi (Northeastern University, P.R. China); Hangguan Shan (Zhejiang University, P.R. China); Hai Zhao (Northeastern University, P.R. China)
- 4. Data Priority Based Slot Allocation for Wireless Body Area Networks**
Ru Kong; Cailian Chen; Wenbin Yu; Bo Yang; Xinping Guan (Shanghai Jiao Tong University, P.R. China)
- 5. Joint Power Allocation and Coordinator Deployment for Wireless Body Area Network**
Cui Su; Panpan Wang; Rong Chai (Chongqing University of Posts and Telecommunications, P.R. China)

WNS-03: Performance Analysis

Date: Oct. 25, 2013

Time: 14:00pm – 15:30pm

Room: FR6 (Huanbi Hall)

Chair: Hangguan Shan, Zhejiang University, China

- 1. Analysis on the Transmission Delay of Priority-Based Secondary Users in Cognitive Radio Networks**
Yun Zhang; Tao Jiang; Lei Zhang; Daiming Qu (Huazhong University of Science and Technology, Wuhan, Hubei, P.R. China); Wei Peng (Tohoku University, Japan)
- 2. Resource Management for Heterogeneous Services in Cognitive Mesh Networks**
Ningkai Zhou; Hangguan Shan; Aiping Huang (Zhejiang University, P.R. China); Xin Wang (Fudan University, P.R. China)
- 3. Throughput Capacity of Wireless Networks with Social Features**
Shiting Hu; Li Yu (Huazhong University of Science & Technology, P.R. China); Qiuming Liu (HUST, P.R. China); Peng Yang (Huazhong University of Science & Technology, P.R. China)
- 4. Performance Analysis of Two-tier Femtocell Networks in Nakagami-m Fading Channels**
Shanshan Chen; Hao Jin; Yuan Li; Mugen Peng (Beijing University of posts & Telecommunications, P.R. China)
- 5. Performance of Multiple Relay Selection with QoS**

Requirement for Cooperative Relay Networks

Kang Song; BaoFeng Ji; Yongming Huang; Luxi Yang (SouthEast University, P.R. China)

6. Joint Optimization of Cooperative Users and Sub-band Power for Cooperative Spectrum Sensing and Communication in Wideband Cognitive Radio

Xin Liu; Junhua Yan; Weizhi Zhong; Qingfeng Jing (Nanjing University of Aeronautics and Astronautics); Liang Ye (Harbin Institute of Technology); Yongliang Guan (Nanyang Technological University)

WNS-04: Smart Grid and Localization

Date: Oct. 25, 2013

Time: 16:00pm – 17:30pm

Room: FR6 (Huanbi Hall)

Chair: Hongwei Li, University of Electronic Science and Technology, China

1. ESO: An Efficient and Secure Outsourcing Scheme for Smart Grid

Qi Li; Hongwei Li; Yi Yang (University of Electronic Science and Technology of China, P.R. China); Hongwei Luo (China Academy of Telecom Research, P.R. China); Bong Jun Choi (The State University of New York (SUNY) Korea, Korea); Liang Zhou (UESTC, P.R. China)

2. Particle Filter based Grid Synchronization with Voltage Unbalance and Frequency Variation in Smart Grid

Jiangcai Zhu; Zhiguo Shi (Zhejiang University, P.R. China); Hao Liang (University of Waterloo, Canada); Rongxing Lu (Nanyang Technological University, Singapore); Sherman Shen (University of Waterloo, Canada)

3. Two-sided Energy Scheduling Algorithm for Smart Grid with Storage Cost

Rongchao Zhang; Yuan Wu (Zhejiang University of Technology, P.R. China); Wenan Zhang; Li Yu (Zhejiang University of Technology, P.R. China); Wen-Zhan Song (Georgia State University, USA)

4. Risk-constrained Operation for Internet Data Centers under Smart Grid Environment

Liang Yu; Tao Jiang; Yang Cao; Jingkai Wu (Huazhong University of Science and Technology, P.R. China)

5. Community Detection Based Reference Points Clustering for Indoor Localization in WLAN

Wei Jing (University of Waterloo, Canada); Hai Zhao (Northeastern University, P.R. China); Chunhe Song (University of Waterloo, Canada); Xiaodong Lin (University of Ontario Institute of Technology, Canada); Sherman Shen (University of Waterloo,

Canada)

6. Dynamic Path Planning of Mobile Beacon for Localization in Wireless Sensor Network

Yilun Yang; Linghua Zhang (Nanjing University of Posts and Telecommunications, P.R. China)

WNS-05: Energy Efficiency and Routing

Date: Oct. 26, 2013

Time: 08:45am – 10:15am

Room: FR6 (Huanbi Hall)

Chair: Bong Jun (David) Choi, SUNY Korea, Korea

1. Triple-mode Sleeping Mechanism Design for Energy Efficiency in Cellular Network

Feng Xu; Kai Niu; Ping Gong; Baoyu Tian (Beijing University of Posts and Telecommunications, P.R. China); Shaohui Sun (China Academy of Telecommunications Technology (CATT), P.R. China)

2. Cell Sites Planning with Minimized Power Consumption Under Cell Load Balancing Constraint in LTE Networks

Linqiong Jia (Southeast University, P.R. China); Wence Zhang (Southeast University, United Kingdom); Zhaohui Yang; Chunhua Ma; Ming Chen (Southeast University, P.R. China)

3. Energy-Efficient Power Allocation Algorithm for Heterogeneous OFDM Downlink Systems

Kecheng Zhang; Jiamo Jiang; Mugen Peng; Lei Li (Beijing University of posts & Telecommunications, P.R. China)

4. Energy Consumption Optimization Based on Transmission Distance for Wireless On-Body Communication

Lili Wang; Peikang Wang (University of Science & Technology of China, P.R. China); Chenfu Yi; Ye Li (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, P.R. China)

5. Rechargeable Router Placement with Guaranteed QoS for Green WLAN Mesh Networks

Xiaoli Huan; Bang Wang; Yijun Mo (Huazhong University of Science and Technology, P.R. China)

6. Adaptive Scan-based Asynchronous Neighbor Discovery in Wireless Networks Using Directional Antennas

Yang Wang; Bo Liu; Gui Lin (Shanghai JiaoTong University, P.R. China)

WNS-06: Data Aggregation and Load Balance

Date: Oct. 26, 2013

Time: 10:45am – 12:15pm

Room: FR4 (Liuxia Hall)

Chair: Azlan Awang, Universiti Teknologi Petronas, Malaysia

1. **A Distributed Rate Allocation Algorithm for Slepian-Wolf Coding based Data Aggregation in Wireless Sensor Networks**

Jun Zheng; ZhenZhong Huang; Qihang Shu (Southeast University, P.R. China); Nathalie Mitton (Inria Lille - Nord Europe, France)

2. **A Dependable Slepian-Wolf Coding Based Clustering Algorithm for Data Aggregation in Wireless Sensor Networks**

Qihang Shu; Qiang Hu; Jun Zheng (Southeast University, P.R. China); Nathalie Mitton (Inria Lille - Nord Europe, France)

3. **Data Aggregation using RSSI for Multihop Wireless Sensor Networks**

Azlan Awang; Shobhit Agarwal (Universiti Teknologi PETRONAS, Malaysia)

4. **Distributed Base Station Mobility Strategy and Load Balancing in Wireless Networks**

Mingjie He; Ying Yang; Weidong Wang (University of Science and Technology of China, P.R. China)

5. **An Adaptive Packet Aggregation Algorithm for Wireless Networks**

Jianhua Deng; Mark Davis (Dublin Institute of Technology, Ireland)

6. **Femtocell as a Relay: A Bargaining Solution for Femto Users Partition in Geometrical Perspective**

Rui Wang; Xinxin Feng; Xiaoying Gan; Jing Liu (Shanghai Jiao Tong University, P.R. China); Haitao Liu (Philips Innovation Campus Shanghai, P.R. China)

WNS-07: Protocols and Optimization

Date: Oct. 26, 2013

Time: 10:45am – 12:15pm

Room: FR6 (Huanbi Hall)

Chair: Meng Li, Tohoku University, Japan

1. **Optimized Backoff Algorithm of IEEE 802.11 DCF for Collision Resolution**

Sun Yingxia; Dewei Yang (Beijing Institute of Technology, P.R. China); Weizhen Tian (Xi'an Communications Institute, P.R. China); Wenlong Liu (School of Information and Electronics Beijing Institute of Technology Beijing, P.R. China)

2. **RCLTP: A Rateless Coding-based Licklider Transmission Protocol in Space Delay/Disrupt Tolerant Network**

Shushi Gu; Jian Jiao (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Zhihua Yang (Harbin Institute of Technology, P.R. China); Qinyu Zhang; Ye Wang (Harbin Institute of Technology Shenzhen Graduate School, P.R. China)

3. **MAC protocols for Cognitive Radio Networks with Passive and Active Primary Users**

Bhasker Dappuri (Department of Electrical Engineering, IIT Madras, India); Venkatesh Tiruchirai Gopalakrishnan (Indian Institute of Technology Madras, India); Vivin Thomas (Indian Institute of Technology, Madras, India)

4. **On the Fast-Convergence of Delay-Based Load Balancing over Multipaths for Dynamic Traffic Environments**

Meng Li (Tohoku University, P.R. China); Hiroki Nishiyama; Nei Kato (Tohoku University, Japan); Kimihiro Mizutani; Osamu Akashi (NTT Network Innovation Labs., Japan); Atsushi Takahara (NTT, Japan)

5. **A CSMA/TDMA dynamic splitting scheme for MAC protocol in VANETs**

Lijuan Cao; Wenjun Xu; Xuehong Lin; Jiaru Lin (Beijing University of Posts and Telecommunications, P.R. China)

6. **Joint Optimization between MLB and MRO based on Cell Load Balance for LTE Networks**

Jun Zhou; Yijun Mo; Bang Wang (Huazhong University of Science and Technology, P.R. China)

WNS-08: Handoff and Coverage Optimization

Date: Oct. 26, 2013

Time: 14:00pm – 15:30pm

Room: FR4 (Liuxia Hall)

Chair: Huifang Chen, Zhejiang University, China

1. **Location-aware handover decision algorithm in multi-cell networks**

Chengyi Liu (Southeast University, P.R. China); Weiwei Xia (National Mobile Communications Research Laboratory, Southeast University, P.R. China); Geng Chen (Southeast University, P.R. China); Lianfeng Shen (National Mobile Communications Research Laboratory, Southeast University, P.R. China)

2. **A Low-complexity Fuzzy-logic-control-based Vertical Handoff Decision Algorithm with Rough Set Theory**

Yanan Feng; Lei Xie; Huifang Chen; Kuang Wang (Zhejiang University, P.R. China)

3. **Adaptive cell range control in heterogeneous network**

Xinyu Gu (Beijing University of Posts and Telecommunications, P.R. China); Wenyu Li (China Academy of Telecom. Research, MIT, P.R. China); Lin Zhang (Beijing University of Posts and Telecommunications, P.R. China)

4. **Handover Based on Receive Beamforming in High Mobility Cellular Communication Networks**

Cuiling Qi; Zhaoyang Zhang; Chao Wang (Zhejiang University, P.R. China)

5. **WSN sensing coverage based on correlation**

Mengyi Zhang (University of Reims Champagne-Ardenne, France); Alban Goupil (Université de Reims Champagne-Ardenne, France); Maxime Colas (DéCom/University of REIMS CHAMPAGNE-ARDENNE, France); Guillaume Gelle (University of Reims Champagne-Ardenne, France)

6. **Multi-Sector Joint Beamforming for Pilot Coverage Optimization**

Dongdong Fan (Zhejiang University, P.R. China); Zhouyun Wu (Technology Innovation Center, China Telecom, P.R. China); Aiping Huang; Hangguan Shan (Zhejiang University, P.R. China); Hongcheng Zhuang (Huawei Technologies Co., Ltd, P.R. China)

WNS-09: Wireless Networks

Date: Oct. 26, 2013

Time: 14:00pm – 15:30pm

Room: FR6 (Huanbi Hall)

Chair: Hai Wang, Nanjing Institute of Communications Engineering, China

1. **Improved Multi-hop Time Synchronization for Underwater Acoustic Networks**

Jianxiong Wen; Lianghui Ding; Feng Yang; Liang Qian; Chuan Sun (Shanghai Jiao Tong University, P.R. China)

2. **Multicast/Broadcast Service in Integrated VANET-Cellular Heterogeneous Wireless Networks**

Wei Zhou; Changcheng Ren; Chuan Ma; Hui Yu; HanWen Luo; Xiaoying Gan; Wang Xi (Shanghai Jiao Tong University, P.R. China)

3. **Turning Interference Weakness into PHY Security Enhancement for Cognitive Radio Networks**

Hang Zhang; Tianyu Wang; Lingyang Song (Peking University, P.R. China); Zhu Han (University of Houston, USA)

4. **Compressed Sensing Enabled Narrowband Interference Mitigation for IR-UWB Systems**

Ningyu Chen (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Shaohua Wu; Yunhe Li (Harbin Institute of Technology, P.R. China); Bin Cao (Harbin Institute of Technology Shenzhen Graduate School, P.R. China)

5. **Relay Selection Scheme Based on Propagation Delay for Cooperative Underwater Acoustic Network**

Chao Gao; Zhiyong Liu (Harbin Institute of Technology at Weihai, P.R. China); Bin Cao

(Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Liwei Mu (South China Normal University, P.R. China)

6. **NCFF: Efficient Network Coding with Freedom-based Feedback in Wireless Mesh Networks**

Yuben Qu (Institute of Communications Engineering, Nanjing, P.R. China); Chao Dong (Institute of Communication Engineering, P.R. China); Chen Chen (PLA University of Science and Technology, P.R. China); Hai Wang (Nanjing Institute of Communications Engineering, P.R. China); Chang Tian (PLA University of Sci. and Tech., P.R. China)

WNS-10: Applications of Wireless Networks

Date: Oct. 26, 2013

Time: 16:00pm – 17:30pm

Room: FR6 (Huanbi Hall)

Chair: Shaohua Wu, Harbin Institute of Technology Shenzhen Graduate School, China

1. **Kernel Regression Based Encrypted Images Compression for E-healthcare Systems**

Chunhe Song (University of Waterloo, Canada); Xiaodong Lin (University of Ontario Institute of Technology, Canada); Sherman Shen (University of Waterloo, Canada); Henry Luo (Care in Motion, Canada)

2. **SymMatch:Secure and Privacy-Preserving Symptom Matching for Mobile Healthcare Social Networks**

Hui Xing; Caillan Chen; Bo Yang; Xiping Guan (Shanghai Jiao Tong University, P.R. China)

3. **EPCache: In-network Video Caching for LTE Core Networks**

Jiawei Zhu (University of Science and Technology of China, Hefei, Anhui, P.R. China); Jun He (University of Science and Technology of China, P.R. China); Hao Zhou; Baohua Zhao (University of Science and Technology of China, P.R. China)

4. **Load Adaptive Dynamic Mapping for Video Streaming over IEEE 802.11e Network**

Peng Yu; Lianghui Ding; Liang Qian; Feng Yang (Shanghai Jiaotong University, P.R. China)

5. **A Context-aware Media Content Personalized Recommendation for Community Networks**

Meng Qin; Qinghai Yang; FengLin Fu (Xidian University, P.R. China); Kyung Sup Kwak (Inha University, Korea)