WCSP 2012 Technical Program

October 25-27, 2012

Communication Theory Symposium

CTS-01: Coding and Decoding

Date: Oct. 25, 2012
Time: 14:00pm – 15:30pm
Room: Xuesong Hall （雪松厅）
Chair: Hosoya Gou, Tokyo University of Science, Japan

1. **Polar Code with Block-Length $N=3^n$**

   Liang Zhang (Zhejiang University, P.R. China); Zhaoyang Zhang (Zhejiang University, P.R. China); Xianbin Wang (Zhejiang University, P.R. China)

2. **Novel LT Coding Scheme with Limited Feedback in Broadcast Systems**

   Jiaqi Yu (Zhejiang University, P.R. China); Jie Zhong (Zhejiang University, P.R. China); Minjian Zhao (Zhejiang University, P.R. China); Yunlong Cai (Zhejiang University, P.R. China); Jie Wu (Zhejiang University, P.R. China)

3. **Multiple Candidates Successive-Cancellation Decoding of Polar Codes**

   Zhiliang Huang (Southeast University, P.R. China); Chunjuan Diao (Southeast University, P.R. China); Ming Chen (Southeast University, P.R. China)

4. **On the Analysis of Multiplicative-Repetition Code and Polar Code over Binary Erasure Channels**

   Xiaofu Wu (Nanjing University of Posts & Telecommunications, P.R. China)

5. **LLR Calculation for Iterative Decoding on Fading Channels Using Pad'e Approximation**

   Hosoya Gou (Tokyo University of Science, Japan); Mikio Hasegawa (Tokyo University of Science, Japan); Hiroyuki Yashima (Tokyo University of Science, Japan)

6. **An Efficient OSD-aided Iterative Decoding Algorithm for LTE Turbo Codes**
Yijia Xu (Southeast University, P.R. China); Ming Jiang (Southeast University, P.R. China); Ding Meiling (ZTE, P.R. China); Yushan Yang (Southeast University, P.R. China)

CTS-02: LDPC codes
Date: Oct. 25, 2012
Time: 16:00pm – 17:30pm
Room: Xuesong Hall （雪松厅）
Chair: Xiaofu Wu, Nanjing University of Posts & Telecommunications, P.R. China

1. **Construction of QC-LDPC Codes with Girth Larger Than Eight Based on GPU**
Yejun He (Shenzhen University, P.R. China); Jie Yang (Shenzhen University, P.R. China)

2. **In Praise of Nontrivial Redundant Rows of Algebraic LDPC Codes**
Qin Huang (Beihang University, P.R. China); Mu Zhang (Beihang, P.R. China); Xujing Guo (Beihang University, Beijing, P.R. China); Zulin Wang (Beihang University, P.R. China)

3. **Improved Weighted Bit Flip Voting Decoding Algorithm for Generalized LDPC**
Yibin Yang (Shanghai Jiao Tong University, P.R. China); Jintao Li (Shanghai Jiao Tong University, P.R. China); Hui Yu (Shanghai Jiao Tong University, P.R. China); Youyun Xu (PLA University of Science and Technology, P.R. China)

4. **Combined Modified Weighted Bit-Flipping Decoding of Low-Density Parity-Check Codes**
Haiyi Huang (South China University of Technology, P.R. China); Yige Wang (South China University of Technology, P.R. China); Gang Wei (South China University of Technology, P.R. China)

5. **Efficient Simulation of QC LDPC Decoding on GPU Platform by CUDA**
Bing Jiang (Hangzhou Dianzi University, P.R. China); Jianrong Bao (Hangzhou Dianzi University, P.R. China); Xiaorong Xu (Hangzhou Dianzi University, P.R. China)

6. **LDPC Coded Modulation for Rayleigh Fading Channels**
Jintao Li (Shanghai Jiao Tong University, P.R. China); Yibin Yang (ShangHai Jiao Tong University, P.R. China); Hui Yu (Shanghai Jiao Tong University, P.R. China); Yunfeng Guan (Shanghai Jiao Tong University, P.R. China)

CTS-03: Network Coding
Date: Oct. 26, 2012
Time: 14:00pm – 15:30pm
Room: Xuesong Hall （雪松厅）
Chair: Wen Chen, Shanghai Jiao Tong University, P.R. China

1. **Network Coding in Wireless Cooperative Networks with Multiple Antenna**

Relays

Lili Wei (Shanghai Jiao Tong University, P.R. China); Wen Chen (Shanghai Jiao Tong University, P.R. China)

2. **Joint LDPC and Physical-Layer Network Coding for Two-way Relay Channels with Different Carrier Frequency Offsets**

Wenwen Liang (PLA University of Science and Technology, P.R. China); Chen Yande (PLA Nanjing Army Command College, P.R. China); Kui Xu (PLA University of Science and Technology, P.R. China); Hua Tian (PLA University of Science and Technology, P.R. China); Youyun Xu (PLA University of Science & Technology, P.R. China)

3. **On the Design of Network Coding for the Downlink of Single-Relay Multi-Users Two-Way Networks**

Xiaoxi Guo (Beijing University of Posts and Telecommunications, P.R. China); Jianjun Hao (Beijing University of Posts and Telecommunications, P.R. China); Yijun Guo (Beijing University of Post and Telecommunication, P.R. China)

4. **Asymmetric Network Coding for Two-Way OFDM Relay System with Power Allocation**

Fengyue Gao (PLA University of Science and Technology, P.R. China); Kui Xu (PLA University of Science and Technology, P.R. China); Chen Yande (PLA University of Science and Technology, Nanjing, P.R. China); Ma Wenfeng (PLA University of Science & Technology, P.R. China); Youyun Xu (PLA University of Science & Technology, P.R. China)

5. **Outage Probability Analysis of a Space-time Block Coding Physical-Layer Network Coding**

Long Kong (Xiamen University, P.R. China); Pingping Chen (Xiamen University, P.R. China); Lin Wang (Xiamen University, P.R. China)

6. **Adaptive Modulation and Coding over Network Coded Multiple Access Relay Channel**

Fang Bowen (Zhejiang University, P.R. China); Wei Wang (Zhejiang University, P.R. China); Yu Zhang (Zhejiang University, P.R. China); Zhaoyang Zhang (Zhejiang University, P.R. China)

CTS-04: Detection and Interference Suppression

Date: Oct. 26, 2012
Time: 16:00pm – 17:30pm
Room: Xuesong Hall （雪松厅）
Chair: Defeng Huang, The University of Western Australia, Australia

1. **A Soft-in Soft-Out Detection Approach Using Partial Gaussian Approximation**

Qinghua Guo (The University of Western Australia, Australia); Licai Fang (The University of Western Australia, Australia); Defeng Huang (The University of Western Australia, Australia); Nordholm Sven (Curtin University of Technology, Australia)

2. **Distributed Bayesian Compressive Sensing Using Gibbs Sampler**
   Hua Ai (Beijing University of Posts and Telecommunications, P.R. China); Yang Lu (Beijing University of Posts and Telecommunications, P.R. China); Wenbin Guo (Beijing University of Posts and Telecommunications, P.R. China)

3. **Second-Order Differential Based Matching Pursuit Method for Compressive Sensing Signal Recovery**
   Weikai Chen (Tianjin University, P.R. China); Yunhui Chen (Tianjin University, P.R. China)

4. **Two Novel Iterative Algorithms for Interference Alignment with Symbol Extensions in the MIMO Interference Channel**
   Chao Wang (Xi'an Jiaotong University, P.R. China); Ke Deng (Xi'an Jiaotong University, P.R. China); Yubo Li (Xi'an Jiaotong University, P.R. China)

5. **A Family of 16-QAM Periodic Complementary Sequence Mates for Suppressing Multiple Access Interference in CDMA Communication Systems**
   Fanxin Zeng (Chongqing Communication Institute, P.R. China); Xiaoping Zeng (Chongqing Communication Institute, P.R. China); Xiangyong Zeng (Hubei University, P.R. China); Zhenyu Zhang (Chongqing Communication Institute, P.R. China); Guixin Xuan (Chongqing Communication Institute, P.R. China)

CTS-05: Channel Capacity
Date: Oct. 27, 2012
Time: 8:45am – 10:15am
Room: Xuesong Hall （雪松厅）
Chair: Yongming Huang, Southeast University, P.R. China

1. **Capacity Analysis of Dual-Hop Amplify-and-Forward MIMO Multiple-Access Channels**
   Symeon Chatzinotas (University of Luxembourg, Luxemburg); Björn Ottersten (KTH Royal Institute of Technology, Sweden)

2. **SER and SINR Analysis of Optimum Combining in Rayleigh-Product Fading Channels**
   Yongpeng Wu (Southeast University, P.R. China); Shi Jin (Southeast University, P.R. China); Xiqi Gao (Southeast University, P.R. China); Kai Kit Wong (University College London, United Kingdom)

3. **On the Capacity of CPM over Rayleigh Fading Channels**
   Rongting Chen (Xidian University, P.R. China); Fan Wei (Xidian University, P.R. China); Mengyu Huang (University of New South Wales, Australia); Li Bing (Xidian University, P.R. China); Bao-Ming Bai (Xidian University, P.R. China)

4. **MAC Gaussian Channels with Arbitrary Inputs: Optimal Precoding and Power Allocation**

Samah A. M. Ghanem (University of Porto, Institute of Telecommunications, Portugal)

5. **Adaptive Modulation and Coding Based on Virtual HARQ for Satellite Wireless Communications**

Jingjing Zhao (Southeast University, P.R. China); Shi Jin (Southeast University, P.R. China); Xiao Li (Southeast University, P.R. China); Yongming Huang (Southeast University, P.R. China); Xiqi Gao (Southeast University, P.R. China)

Signal Processing Symposium

SPS-01: TOA, DOA, and DFO Estimation
Date: Oct. 25, 2012
Time: 14:00pm – 15:30pm
Room: Heisong（黑松厅）
Chair: Tan-Jan Ho, Chung-Yuan Christian University, Taiwan

1. **Analysis of TOA Estimation Using the Received Signal Characteristics in IR UWB Ranging with Energy Detection Receiver**

Wen-Yan Liu (National University of Defense Technology, P.R. China); Hong Ding (National University of Defense Technology, P.R. China); Xiaotao Huang (National University of DefenseTechnology, P.R. China); Zelong Liu (National University of Defense Technology, P.R. China)

2. **Covariance Differencing Technique Based DOA Estimation Method Under Hermitian Symmetric Toeplitz Noise**

Yan Guo (Nanjing Institute of Communications Engineering, P.R. China); Ning Li (Nanjing Institute of Communications Engineering, P.R. China); Chang Tian (Institute of Communication Engineering, Algeria); Xue-Liang Liu (Institute of Science, P.R. China)

3. **A Novel 2-D DOA Estimation for Coherent Signals Based on L-Shaped Array**

Qiao Cheng (Xidian University, P.R. China); Yimin Zhao (Xidian University, P.R. China); Jing Yang (Xidian University, P.R. China)

4. **DOA Estimation Using Virtual Array Technique for Noncircular Signals**

Min Lin (Nanjing Telecommunication Technology Institute, P.R. China); Ling-Ling Cao (Nanjing University of Aeronautics and Astronautics, P.R. China); Ouyang Jian (Nanjing University of Aeronautics and Astronautics, P.R. China); Kang An (Institute of Communication Engineering PLA University of Science and Technology, P.R. China)

5. **Doppler Frequency Offsets Estimation and Diversity Reception Scheme of High Speed Railway with Multiple Antennas on Separated Carriages**

Yaoqing Yang (Tsinghua University, P.R. China); Ping-Yi Fan (Tsinghua University, P.R. China); Yongming Huang (Southeast University, P.R. China)

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

Date: Oct. 25, 2012

Time: 16:00pm -17:30pm

Room: Heisong（黑松厅）

Chair: Lisheng Fan, Shantou University, P. R. China

1. **Model Adaptation Based on Improved Variance Estimation for Robust Speech Recognition**

   Yong Lü (Hohai University, P.R. China); Lin Zhou (Southeast University, P.R. China); Zongyu Xu (Hohai University, P.R. China); Qin Yan (Hohai University, P.R. China)

2. **Image Retrieval Method Using Visual Query Suggestion and Relevance Feedback**

   Jing Zhang (Beijing University of Technology, P.R. China); Yuncong Yang (Beijing University of Technology, P.R. China); Li Zhuo (Beijing University of Technology, P.R. China); Mengmeng Diao (Beijing University of Technology, P.R. China)

3. **Estimation of the Rotation Angle by Phase Slope for ISAR Imaging**

   Yao Wei (Nanjing University, P.R. China); Lan Tang (Nanjing University, P.R. China); Yechao Bai (Nanjing University, P.R. China); Xinggan Zhang (Nanjing University, P.R. China)

4. **Spatial Correlation and Texture-Based Fast Adaptive Loop Filter for HEVC**

   Yongfei Zhang (Beihang University, P.R. China); Yunzhao Tang (Beihang University, P.R. China); Bo Li (Beihang University, P.R. China)

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

Date: Oct. 26, 2012

Time: 14:00pm – 15:30pm

Room: Heisong（黑松厅）

Chair: Shengli Zhang, Shenzhen University, P. R. China

1. **A Novel Speech Denoising Algorithm via Data Field Modeling**

   Jianjun Huang (PLA University of Science and Technology, P.R. China); Xiongwei Zhang (PLA University of Science and Technology, P.R. China); Yafei Zhang (PLA University of Science and Technology, P.R. China); Wenyan Gan (PLA University of Science and Technology, P.R. China); Xia Zou (PLA University of Science and Technology, P.R. China)

2. **A New Speech Enhancement Algorithm with Generalized Gamma Speech Model**

   Gaihua Zhao (PLA University of Science and Technology, P.R. China); Bin Zhou (PLA University of Science and Technology, P.R. China); Xiongwei Zhang (PLA University of Science & Technology, P.R. China); Lu-Ying Sui (PLA University of Science & Technology, P.R. China)

3. **Video De-interlacing Method Based-on Optical Flow**
Chong Wang (Jiangsu Electric Power Information & Telecommunication Company, P.R. China); Rong Huang (Nanjing Telecom, P.R. China); Weiwei Miao (Jiangsu Electric Power Information & Telecommunication Company, P.R. China); Junfeng Zhao (Jiangsu Electric Power Information & Telecommunication Company, P.R. China); Jinling He (Jiangsu Electric Power Information & Telecommunication Company, P.R. China)

4. **A Content-Based Encryption Scheme for Wireless H.264 Compressed Videos**
Yingdi Zhao (Beijing University of Technology, P.R. China); Li Zhuo (Beijing University of Technology, P.R. China)

5. **Improved and Robust Eyelash and Eyelid Location Method**
Ting Wang (Shandong University, P.R. China); Min Han (Shandong University, P.R. China); Honglin Wan (Shandong Normal University, P.R. China)

SPS-04: Radar Imaging
Date: Oct. 26, 2012
Time: 16:00pm – 17:30pm
Room: Heisong（黑松厅）
Chair: Feifei Gao, Tsinghua University, P. R. China

1. **Sparsity-Driven High Resolution FDLFM-MIMO Radar Imaging**
Li Ding (University of Science and Technology of China, P.R. China); Changchang Liu (University of Science and Technology of China, P.R. China); Weidong Chen (University of Science and Technology of China, P.R. China); Wenyi Zhang (University of Science and Technology of China, P.R. China)

2. **Accuracy Analysis of SISAR Imaging Algorithm in Forward Scatter Radar**
Chao Zhou (Soochow University, P.R. China); Canyan Zhu (Soochow University, P.R. China); Cheng Hu (Beijing Institute of Technology, P.R. China); Tao Zeng (Beijing institute of Technology, P.R. China)

3. **Sparse Imaging for Passive Radar System Based on Digital Video Broadcasting Satellites**
Changchang Liu (University of Science and Technology of China, P.R. China); Tianyun Wang (University of Science and Technology of China, P.R. China); Li Ding (University of Science and Technology of China, P.R. China); Weidong Chen (University of Science and Technology of China, P.R. China);

4. **Discontinuous Spectra MCPC Signal Processing in HF Radar**
Yang Qiang (Harbin Institute of Technology, P.R. China); Zhou Shenghui (Harbin Institute of Technology, P.R. China)

5. **Building Recognition with Partial 3D-Information Collected by Airborne Sensors at Limited Angles**

Yan Yiming (Harbin Institute of Technology, P.R. China); Gao Fengjiao (Institute of Automation of Heilongjiang Academy of Science, P.R. China)

SPS-05: Detection and Detector

Date: Oct. 27, 2012
Time: 8:45am – 10:15am
Room: Heisong（黑松厅）
Chair: Yabo Li, Zhejiang University, P. R. China

1. **A Pedestrian Detection System Based on Binocular Stereo**

   Xiaohui Liu (Tianjin University, P.R. China); Zhigang Jin (Tianjin University, P.R. China)

2. **Antenna Gain Imbalance Detection Method Using Particle Swarm Algorithm for MIMO Systems**

   Xiaohui Li (Xidian University, P.R. China); Xin Zhang (Xidian University, P.R. China); Yongqiang Hei (Xidian University, P.R. China)

3. **Chinese Skin Detection in Different Color Spaces**

   Wei Xiong (Hubei University of Technology, P.R. China); Qingquan Li (Wuhan University, P.R. China)

4. **Integrated MAP Detector with Statistical Channel Information for Vector OFDM Systems**

   Qinghua Huang (Zhejiang University, P.R. China); Yabo Li (Zhejiang University, P.R. China); Xiang-Gen Xia (University of Delaware, USA); Zhaoyang Zhang (Zhejiang University, P.R. China)

5. **The Simulation Study of Entropy-Based Signal Detector over Fading Channel**

   Zhu Yong-Gang (Nanjing Telecommunication Research Institute, P.R. China)

SPS-06: Estimation, Positioning, and Separation

Date: Oct. 27, 2012
Time: 10:45am – 12:15pm
Room: Xuesong Hall （雪松厅）
Chair: Hang Zhang, PLA University of Science & Technology, P.R. China

1. **Estimation of Window Length for LFM Signal**

   Qingbo Yin (Dalian Maritime University, P.R. China); Liran Shen (Dalian Maritime University, P.R. China); Mingyu Lu (Dalian Maritime University, P.R. China); Zhi Liu (Dalian Maritime University, P.R. China); Guo Lili (Harbin Engineering University, P.R. China); Tian'en Shen (Dalian Ocean University, P.R. China)

2. **Mobile Location Estimation in Urban Areas Using Fuzzy-Tuned IMM Algorithm**

   Tan-Jan Ho (Chung-Yuan Christian University, Taiwan); Zhi-Hau Chen (Chung-Yuan Christian University, Taiwan)

3. **A Novel Positioning Scheme of Unknown Radio Interference Source in Cellular Networks**
Leyuan Pan (Southeast University, P.R. China); Yongyu Dai (Southeast University, P.R. China); Hua Zhang (Southeast University, P.R. China); Wei Xu (Southeast University, P.R. China); Ping Zhou (Huawei Technology Corporation, P.R. China); Guotian Ma (Huawei Technology Corporation, P.R. China)

4. **Indoor Multi-Resolution Subarea Localization Based on Received Signal Strength Fingerprint**
Shengliang Zhou (Huazhong University of Science and Technology, P.R. China); Bang Wang (Huazhong University of Science and Technology, P.R. China); Yijun Mo (Huazhong University of Science and Technology, P.R. China); Wenyu Liu (Huazhong University of Science and Technology, P.R. China)

5. **Tracking an Asynchronous Sensor with Kalman Filters**
Yiyin Wang (Georgia Institute of Technology, USA); Geert Leus (Delft University of Technology, The Netherlands); Xiaoli Ma (Georgia Institute of Technology, USA)

6. **A Novel Algorithm of Blind Separation for Delayed Sources**
Jiang Zhang (PLA University of Science and Technology, P.R. China); Hang Zhang (PLA University of Science & Technology, P.R. China)

SPS-07: Filter, Equalizer, and Receiver Design
Date: Oct. 27, 2012
Time: 10:45am – 12:15pm
Room: Heisong（黑松厅）
Chair: Nan Wu, Beijing Institute of Technology, P. R. China

1. **A 100 MHz Gm-C BandPass Filter Chip Design for Wireless Application**
Jhin-Fang Huang (Taiwan University of Science and Technology, Taiwan); Wen-Cheng Lai (Taiwan University of Science and Technology, Taiwan); Yan-Cheng Lai (Taiwan University of Science and Technology, Taiwan)

2. **Comparative Study of Heuristic Search Algorithm in Digital FIR Filter Design**
Dongmei Gu (Zhejiang University of Technology, P.R. China); Jingyu Hua (Zhejiang University of Technology, P.R. China); Wangkun Kuang (Zhejiang University of Technology, P.R. China); Jingshan Wang (Zhejiang University of Technology, P.R. China); Bin Sheng (Zhejiang University of Technology, P.R. China)

3. **Improved Residual Resampling Algorithm and Hardware Implementation for Particle Filters**
Shaohua Hong (Xiamen University, P.R. China); Jianxing Jiang (Xiamen University, P.R. China); Lin Wang (Xiamen University, P.R. China)

4. **A 6.25Gbps Feed-forward Equalizer in 0.18μm CMOS Technology for SerDes**

   Jian Gao (Southeast University, P.R. China); Qingsheng Hu (Southeast University, P.R. China)

5. **A Novel ICA Based Frequency Hopping Receiver with Correlated Jamming Suppression**

   Miao Yu (Nanjing Telecommunication Technology Institute, P.R. China); Yuehai Wang (Zhejiang University, P.R. China); Guofu Wang (PLA University of Science and Technology, P.R. China)

6. **Particle Swarm Enhanced Graph-Based Iterative Receiver with Phase Noise and Frequency Offset**

   Hongjie Zhao (Beijing Institute of Technology, P.R. China); Nan Wu (Beijing Institute of Technology, P.R. China); Hua Wang (Beijing Institute of Technology, P.R. China); Jingming Kuang (Beijing Institute of Technology, P.R. China)

SPS-08: Power Control and Transmission

Date: Oct. 27, 2012
Time: 14:00pm – 15:30pm
Room: Xuesong Hall （雪松厅）
Chair: Hui-Ming Wang, Xi'an Jiaotong University, P. R. China

1. **Power Control and Resource Allocation for Capacity Improvement in Picocell Downlinks**

   Dongrun Qin (Southeast University, P.R. China); Wei Xu (Southeast University, P.R. China); Zhi Ding (University of California at Davis, USA)

2. **Fairness-Guaranteed Pricing and Power Allocation with a Friendly Jammer Against Eavesdropping**

   Jianting Yue (Shanghai Jiao Tong University, P.R. China); Bo Yang (Shanghai Jiao Tong University, P.R. China); Xinping Guan (Shanghai Jiao Tong University, P.R. China)

3. **Adaptive Transmission Scheme for OFDM Systems**

   Fang Xin (Hangzhou dianzi University, P.R. China); Xutao Yu (Southeast University, P.R. China); Ying Na (Hangzhou Dianzi University, P.R. China)

4. **A Novel Joint Data Partition and Forwarding Scheme for D2D Communications**

   Xiao Liu (Nanjing University of Post and Telecommunications, P.R. China); Feng Sun (University of Florida, P.R. China); Zheng Li (Southeast University, P.R. China); Longxiang Yang (Nanjing University of Posts and Telecommunications, P.R. China)

5. **Hybrid Relaying and Jamming for Secure Two-Way Relay Networks with Per-Node Power Constraint**

   Hui-Ming Wang (Xi'an Jiaotong University, P.R. China); Miao Luo (Xi'an Jiaotong University, P.R. China); Qinye Yin (Xi'an Jiaotong University, P.R. China)

6. **Delay Calibration of Transmitter for Inter-Satellite Link Using Sub-Sampling and Partial Correlation**

    Xiao-Zhun Cui (China Academy of Space Engineering, P.R. China)

SPS-09: Beamforming and MIMO

Date: Oct. 27, 2012
Time: 14:00pm – 15:30pm
Room: Heisong（黑松厅）
Chair: Chengwen Xing, Beijing Institute of Technology, P. R. China

1. **Low-Complexity Zero-Forcing Coordinated Beamforming by Adaptive-Perturbation for Multi-Cell MIMO Networks**

    Guochen Liu (University of Electronic Science and Technology of China, P.R. China); Gang Wu (University of Electronic Science and Technology of China, P.R. China); Xiuhong Su (University of Electronic Science and Technology, P.R. China); Shaoqian Li (University of Electronic Science and Technology of China, Taiwan)

2. **A Unified Linear MSE Minimization MIMO Beamforming Design Based on Quadratic Matrix Programming**

    Chengwen Xing (Beijing Institute of Technology, P.R. China); Zesong Fei (Beijing Institute of Technology, P.R. China); Shaodan Ma (University of Macau, P.R. China); Jingming Kuang (Beijing Institute of Technology, P.R. China); Yik-Chung Wu (The University of Hong Kong, Hong Kong)

3. **Robust QoS-Based Transmit Beamforming Design in MISO Wiretap Channels**

    Hui Ma (Shandong University, P.R. China); Piming Ma (Shandong University, P.R. China)

4. **Joint Beamforming and Scheduling in Multicell Interference Channel: Second Order Statistics Perspective**

    Maha Al Odeh (Interdisciplinary Centre for Security, Reliability and Trust, Luxemburg)

5. **Linear Transceiver and Receiver Design Methods for Multiuser MIMO Channels**

    Lili Wei (Shanghai Jiao Tong University, P.R. China); Wen Chen (Shanghai Jiao Tong University, P.R. China); Yuejun Wei (Huawei, P.R. China)

6. **Dynamic Selection on the Number of Antennas for Cooperative MISO in WSNs**

    Xinren Gong (Sun Yat-sen University, P.R. China); Xingcheng Liu (Sun Yat-sen University, P.R. China); Pingyuan Liang (Sun Yat-sen University, P.R. China); Siyang Wu (Sun Yat-sen University, P.R. China)

SPS-10: Miscellaneous Topics in Signal Processing

Date: Oct. 27, 2012
Time: 16:00pm – 17:30pm
Room: Heisong（黑松厅）

Chair: Wei Xu, Southeast University, P. R. China

1. **A High-Speed and Low-Power Up/Down Counter in 0.18-μm CMOS Technology**
Tangbiao Zhang (Southeast University, P.R. China); Qingsheng Hu (Southeast University, P.R. China)

2. **A Jacobi-Based Parallel Algorithm for Matrix Inverse Computations**
Tian Zhou (Southeast University, P.R. China); Shuai Fang (Southeast University, P.R. China); Xi Yang (Southeast University, P.R. China); Zheng Li (Southeast University, P.R. China); Qin Guo (Southeast University, P.R. China); Bin Jiang (Southeast University, P.R. China)

3. **Analysis of False CSI Attack by a Malicious User in OFDMA Networks**
Xiaowei Wang (Shanghai Jiao Tong University, P.R. China); Meixia Tao (Shanghai Jiao Tong University, P.R. China); Youyun Xu (Shanghai Jiao Tong University, P.R. China)

4. **LRD Network Traffic Predicting Based on SRD Model**
Bo Gao (Harbin Institute of Technology, P.R. China); Qinyu Zhang (Shenzhen Graduate School, Harbin Institute of Technology, P.R. China); Yongsheng Liang (Shenzhen Institute of Information Technology, P.R. China); Naitong Zhang (Harbin Institute of Technology, P.R. China)

5. **Context-Aware Complex Event Processing for Event Cloud in Internet of Things**
Yongheng Wang (Hunan University, P.R. China); Kening Cao (Hunan University, P.R. China)

6. **Depth Propagation Based on Depth Consistency**
Dichangsheng Wang (Shandong University, P.R. China); Ju Liu (Shandong University, P.R. China); Yannan Ren (Shandong University, P.R. China); Chuan Ge (Shandong University, P.R. China); Wei Liu (Hisense State Key Laboratory of Digital Multi-Media Technology, P.R. China); Yujun Li (Hisense State Key Laboratory of Digital Multi-Media Technology, P.R. China)

Wireless Communications Symposium

WCS-01: Beamforming and Precoding
Date: Oct. 25, 2012
Time: 14:00pm – 15:30pm
Room: Cuisong（翠松厅）
Chair: Lingyang Song, Peking University, P.R. China

1. **Study on Feedback Reduction Techniques in MIMO-OFDM Beamforming Systems**
Laili Wang (Southeast University, P.R. China); Bin Sheng (Southeast University, P.R. China); Chunlong He (Southeast University, P.R. China)

2. **Outage Analysis of Vehicle-Roadside Relay-Vehicle Beamforming in**

Cooperative Communications

Dae-Kyo Jeong (Hanyang University, Korea); Dongwoo Kim (Hanyang University, Korea)

3. **Joint Receiver-and-Collaborative Beamforming for the Multi-User Relay Network in the Uplink**

Chao Wang (Shandong University, P.R. China); Ju Liu (Shandong University, P.R. China); Hongji Xu (Shandong University, P.R. China); Lina Zheng (Shandong University, P.R. China)

4. **A Rank Adaptive Beamforming Scheme for TDD LTE System with Imperfect CSI**

Li Zhang (Beijing University of Posts and Telecommunications, P.R. China); Xiaodong Ji (Beijing University of Posts and Telecommunications, P.R. China); Mugen Peng (Beijing University of posts & Telecommunications, P.R. China)

5. **Joint MMSE Precoding Design in Multi-Hop Bi-Directional MIMO Relay Systems**

Jian Huang (Shanghai Jiao Tong University, P.R. China); Cheng Qian (Shanghai Jiao Tong University, P.R. China); Meng Zhang (Shanghai Jiao Tong University, P.R. China); Hanwen Luo (Shanghai Jiao Tong University, P.R. China); Hui Yu (Shanghai Jiao Tong University, P.R. China)

6. **Joint Source and Relay Precoder Design for MIMO Relay Systems with Direct Link**

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

WCS-02: Spectrum Sensing in Cognitive Radio Networks (I)

Date: Oct. 25, 2012
Time: 14:00pm – 15:30pm
Room: Qingsong（青松厅）
Chair: Huifang Chen, Zhejiang University, P.R. China

1. **A Communication-Overhead-Aware Cooperative Spectrum Sensing Scheme in Cognitive Radio Networks**

Nannan Zhang (Zhejiang University, P.R. China); Huifang Chen (Zhejiang University, P.R. China); Lei Xie (Zhejiang University, P.R. China)

2. **Joint Spectrum Sensing and User Selection Strategy for Cognitive Radio Networks**

Xiaohui Li (Xidian University, P.R. China); Wenlong Li (Xidian University, P.R. China); Yongqiang Hei (Xidian University, P.R. China)

3. **A Joint Design of Spectrum Sharing and Admission Control in Cognitive Radio Networks**

Li Gao (Zhengzhou University, P.R. China); Haifeng Zhao (Zhengzhou University, P.R. China); Xiaomin Mu (Zhengzhou University, P.R. China); Yanhui Lu (Zhengzhou University, P.R. China)

4. **Finite-Sample Size Multiple Antennas Spectrum Sensing**

Saeid Sedighi (Qazvin International University, Iran); Abbas Taherpour (Imam Khomeini International University, Iran); Tamer Khattab (Qatar University, Qatar)

WCS-03: Cooperative Communication and Distributed Antenna Systems

Date: Oct. 25, 2012
Time: 16:00pm – 17:30pm
Room: Cuisong（翠松厅）
Chair: Dongwoo Kim, Hanyang University, Korea

1. **Performance Analysis of a New Topology of Distributed Antenna Systems (Invited)**
   Qinyi Xu (Southeast University, P.R. China); Jun Zhang (Southeast University, P.R. China); Chao He (Southeast University, P.R. China); Shi Jin (Southeast University, P.R. China); Kai Kit Wong (University College London, United Kingdom); Hongguang Guan (Huawei Technologies Co., Ltd.)

2. **A Timing Synchronization Scheme in Coordinated Base-Station Cooperative Communications**
   Ahmed M. Hamza (University of Waterloo, Canada); Jon Mark (University of Waterloo, Canada)

3. **Coordinated Multi-Cell Downlink Transmission Utilizing Transmit Antenna Geometry**
   Shi Jin (Southeast University, P.R. China); Jun Zhang (Southeast University, P.R. China); Xiqi Gao (Southest University, P.R. China); Kai-Kit Wong (University College London, United Kingdom)

4. **Downlink Performance of Alamouti Space-Time Transmission in Practical Distributed Antenna Systems**
   Wei Feng (Tsinghua University, P.R. China); Yanmin Wang (Tsinghua University, P.R. China); Jianhua Lu (Tsinghua University, P.R. China)

5. **System Outage Probability Analysis of Distributed Antenna Systems Over Shadowed Generalized-Gamma Composite Channels**
   Jin-Yuan Wang (Southeast University, P.R. China); Ming Chen (Southeast University, P.R. China); Qing-Song Hu (Nanjing University of Aeronautics and Astronautics, P.R. China)

WCS-04: Free-Space Optical Communication

Date: Oct. 25, 2012
Time: 16:00pm – 17:30pm
Room: Qingsong（青松厅）
Chair: Tiffany Jing Li, Lehigh University, USA

1. **Comparison of Optical OFDM-IDMA and Optical OFDMA for Uplink Visible Light Communications**

Jian Dang (Southeast University, P.R. China); Zaichen Zhang (Southeast University, P.R. China)

2. **Dual-Pulse PPM (DPPM) for Deep Space Optical Communications: Performance and Practicality Analysis**
Tiffany Jing Li (Lehigh University, USA); Alan Hylton (NASA, USA); James Budinger (NASA Glenn Research Center, USA); Jennifer Nappier (NASA Glenn Research Center, USA); Joseph Downey (NASA Glenn Research Center, USA); Daniel E. Raible (NASA John H. Glenn Research Center, USA)

3. **An SLVA-Aided Turbo Decoding Scheme for Free-Space Optical Communications**
Huang Zhou (Southeast University, P.R. China); Ming Jiang (Southeast University, P.R. China); Yijia Xu (Southeast University, P.R. China); Ding Meiling (ZTE, P.R. China)

4. **BER Performance of Free-space Optical Communication in Strong Turbulence with Pointing Errors**
Ling-Ling Cao (Nanjing University of Aeronautics and Astronautics, P.R. China); Ming Sheng (Nanjing University of Aeronautics and Astronautics, P.R. China); Min Feng (Nanjing University of Aeronautics and Astronautics, P.R. China); Xiu-Xiu Xie (Nanjing University of Aeronautics and Astronautics, P.R. China)

5. **On the Information Rate of Different SDMT Modulations**
Chengcheng Pei (Southeast University, P.R. China); Zaichen Zhang (Southeast University, P.R. China)

WCS-05: Diversity and Equalization
Date: Oct. 26, 2012
Time: 14:00pm – 15:30pm
Room: Cuisong（翠松厅）
Chair: Shaodan Ma, University of Macau, P.R. China

1. **Multiuser Diversity with Capture in OFDMA Systems with Clustered Feedback**
Hang Li (University of Western Australia, Australia); Qinghua Guo (University of Western Australia, Australia); Licai Fang (the University of Western Australia, Australia); Defeng Huang (University of Western Australia, Australia)

2. **Finite-SNR Diversity-Multiplexing Tradeoff Analysis of Relay Network with Two Antennas at the Source in Rayleigh Fading Channels**
Wujiang Fang (PLA University of Science and Technology, P.R. China); Yuanyuan Gao (PLA University of Science and Technology, P.R. China); Kun Xu (PLA University of Science and Technology, P.R. China); Guozhen Zang (PLA University of Science and Technology, P.R. China); Tianming Jiang (PLA University of Science and Technology, P.R. China)

3. **Affine Projection Decoders in Uplink of MU-MIMO System and Their**

Performances

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

4. **Diversity-Multiplexing Tradeoff of Coded Cooperation with Incremental Relaying**

Kun Xu (PLA University of Science and Technology, P.R. China); Yuanyuan Gao (PLA University of Science and Technology, P.R. China); Youyun Xu (PLA University of Science and Technology, P.R. China); Xiao Yi (PLA University of Science and Technology, P.R. China)

5. **Low Complexity Frequency Domain Decision Feedback Turbo Equalization with Optimized Symbol Mapping**

Zhengfa Liang (National University of Defense Technology, P.R. China); Hengzhu Liu (National University of Defense Technology, P.R. China); Dongpei Liu (National University of Defense Technology, P.R. China); Liyong Zhang (National University of Defense Technology, P.R. China)

WCS-06: Power Control and Resource Allocation

Date: Oct. 26, 2012
Time: 14:00pm – 15:30pm
Room: Qingsong（青松厅）
Chair: Pengcheng Zhu, Southeast University, P.R. China

1. **Multiuser Power Control with Competitive Market Equilibrium**

Ming Zhao (Beijing University of Posts and Telecommunications, P.R. China); Tao Luo (BUPT, P.R. China); Guang-Xin Yue (BUPT, P.R. China); Xiao-Jun Wang (DCU, Ireland)

2. **Joint Power Control and Subchannel Allocation for OFDMA Femtocell Networks Using Distributed Auction Game**

Jun Deng (Peking University, P.R. China); Rongqing Zhang (Peking University, P.R. China); Lingyang Song (Peking University, P.R. China); Zhu Han (University of Houston, USA); Guang Yang (ZTE Cooperation, P.R. China); Bingli Jiao (Peking University, P.R. China)

3. **Partition Function Game for Rate Optimization in Random Interference Networks**

Chen Wang (Shanghai Jiao Tong University, P.R. China); Meixia Tao (Shanghai Jiao Tong University, P.R. China); Zhu Han (University of Houston, USA)

4. **Bit Allocation Strategy Among Users in Coordinated Multi-cell Systems with Limited Feedback**

Jiamei Qin (Shanghai Jiao Tong University, P.R. China); Meng Zhang (Shanghai Jiao Tong University, P.R. China); Hanwen Luo (Shanghai Jiao Tong University, P.R. China); Hui Yu (Shanghai Jiao Tong University, P.R. China)

5. **Closed-Form Solutions to the Pareto Boundary and Optimal Distributed Strategy for the Two-User MISO Interference Channel**
    Jiamin Li (Southeast University, P.R. China); Dongming Wang (Southeast University, P.R. China); Pengcheng Zhu (Southeast University, P.R. China); Lan Tang (Nanjing University, P.R. China); Xiaohu You (Southeast University, P.R. China)

6. **Spectrum Leasing and Relay Selection for Cooperative Cognitive Radio Network Using Potential Game**
    Wei Xie (PLA University of Science and Technology, P.R. China); Ma Wenfeng (PLA University of Science & Technology, P.R. China); Peng Han (PLA University of Science and Technology, P.R. China); Wei Zhong (PLA University of Science and Technology, P.R. China); Hua Tian (PLA University of Science and Technology, P.R. China)

WCS-07: Coding for Cooperative Communication and Multiple Access
Date: Oct. 26, 2012
Time: 14:00pm – 15:30pm
Room: Baisong（白松厅）
Chair: Tiffany Jing Li, Lehigh University, USA

1. **Soft Message Relaying Through Chaotic Analog Coding**
    Xuanxuan Lu (Lehigh University, USA); Tiffany Jing Li (Lehigh University, USA); Yang Liu (Lehigh University, USA); Xingkai Bao (Alcatel-Lucent, USA)

2. **The Application of Network Coding and Cooperative Diversity in Asymmetric Two-Way Relay Channel**
    Xinsheng Chi (Nanjing University of Posts and Telecommunications, P.R. China); Baoyu Zheng (Nanjing University of Posts and Telecommunications, P.R. China)

3. **Wireless Space Network Coding for Cooperative Communications**
    Dapeng Li (Nanjing University of Posts and Telecommunications, P.R. China); Haitao Zhao (Nanjing University of Posts and Telecommunications, P.R. China); Bo Huang (Nanjing University of Posts and Telecommunications, P.R. China); Nanjie Liu (Nanjing University of Posts and Telecommunications, P.R. China)

4. **On Forward Error Correction with Hamming Code for Multi-path Communications**
    Junfeng Xu (China Information Technology Security Evaluation Center, P.R. China); Tao Zhang (China Information Technology Security Evaluation Center, P.R. China); Zhongding Dong (Beijing Jiaotong University, P.R. China)

5. **Non-Coded Rateless Multiple Access**
    Zhaoyang Zhang (Zhejiang University, P.R. China); Shaolei Chen (Zhejiang University, P.R. China); Kedi Wu (Zhejiang University, P.R. China)

WCS-08: LTE and LTE-Advanced

Date: Oct. 26, 2012
Time: 16:00pm – 17:30pm
Room: Cuisong（翠松厅）
Chair: Shaodan Ma, University of Macau, P.R. China

1. **System-Level Performance of Coordinated Multi-Point Transmission for Heterogeneous Networks in LTE-Advanced Systems**
    Xiaohan Lin (Southeast University, P.R. China); Shi Jin (Southeast University, P.R. China); Xiao Li (Southeast University, P.R. China); Xiqi Gao (Southeast University, P.R. China)

2. **A Novel Cell Selection Strategy with Load Balancing for Both Idle and RRC-Connected Users in 3GPP LTE Network**
    Cen Qian (University of Science and Technology of China, P.R. China); Sihai Zhang (University of Science and Technology of China, P.R. China); Wuyang Zhou (University of Science and Technology of China, P.R. China)

3. **A Novel Dynamic Soft Frequency Reuse Combined with Power Re-allocation in LTE Uplinks**
    Shui Xincui (University of Science and Technology of China, P.R. China); Zhao Ming (University of Science and Technology of China, P.R. China); Peng Dong (China Mobile Research Institute, P.R. China); Jia Kong (China Mobile Research Institute, P.R. China)

4. **A Practical HARQ Scheme with Network Coding for LTE-A Broadcasting System**
    Zhenxing Lu (PLA University of Science and Technology, P.R. China); Kui Xu (PLA University of Science and Technology, P.R. China); Youyun Xu (PLA University of Science & Technology, P.R. China)

5. **An Efficient Resource Allocation Algorithm with Carrier Aggregation in LTE Advanced Systems**
    Zanjie Huang (University of Science and Technology of China, P.R. China); Yusheng Ji (National Institute of Informatics, Japan); Baohua Zhao (University of Science and Technology of China, P.R. China)

6. **Cross Entropy Based Component Carrier Allocation in LTE-Advanced Wireless Communication System**
    Wang Ye (Harbin institute of Technology Shenzhen Graduate School, P.R. China); Peipei Chen (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Qinyu Zhang (Shenzhen Graduate School, Harbin Institute of Technology, P.R. China); Xiaodong Lin (University of Ontario Institute of Technology, Canada)

WCS-09: Spectrum Sensing in Cognitive Radio Networks (II)

Date: Oct. 26, 2012
Time: 16:00pm – 17:30pm

1. **Double-Threshold Energy Detection of Spectrum Sensing for Cognitive Radio Under Noise Uncertainty Environment**

   Shujing Xie (Southeast University, P.R. China); Lianfeng Shen (National Mobile Communications Research Laboratory, Southeast University, P.R. China)

2. **An Efficient Cooperative Spectrum Sensing Algorithm in Time Domain**

   Jun Luo (University of Electronic Science and Technology of China, P.R. China); Jun Wang (University of Electronic Science and Technology of China, P.R. China); Qiang Li (University of Electronic Science & Technology of China, P.R. China); Shaoqian Li (University of Electronic Science and Technology of China, P.R. China)

3. **Efficient Cooperative Spectrum Sensing with Minimum Sensing Error in Cognitive Radio Networks**

   Hang Hu (PLA University of Science and Technology, P.R. China); Lianguo Wu (PLA University of Science and Technology P.R. China); Ning Li (PLA University of Science and Technology, P.R. China); Dongmei Zhang (PLA University of Science and Technology, P.R. China); Youyun Xu (PLA University of Science & Technology, P.R. China)

4. **Seeking Justice: Lapsed Reputation-based Cooperative Spectrum Sensing with Lasting Trusted Nodes Assistance**

   Shuo Feng (PLA University of Science and Technology, P.R. China); Xueqiang Zheng (PLA University of Science and Technology, P.R. China); Junnan Yao (PLA University of Science and Technology, P.R. China); Guoru Ding (PLA University of Science and Technology, P.R. China)

5. **Secure Enhanced Compressed Wideband Spectrum Sensing**

   Yao Gang (Nanjing University of Posts and Telecommunications, P.R. China); Baoyu Zheng (Nanjing University of Posts and Telecommunications, P.R. China); Junqing Chen (Nanjing University of Posts and Telecommunications, P.R. China)

WCS-10: Relaying and Relay Systems

1. **Fixed Full Duplex Relaying for Wireless Broadband Communication**

   Qingmin Meng (Nanjing University of Posts and Telecommunications, P.R. China); Wei Feng (Nanjing University of Posts and Telecommunications, Nanjing, Belgium); Gan Zheng (University of Luxembourg, Luxemburg); Symeon Chatzinotas (University of Luxembourg, Luxemburg); Björn Ottersten (University of Luxembourg, Luxemburg)

2. **Outage Probability of Two-Way AF Relaying in the Presence of Channel Estimation Error and Co-Channel Interference**

Zhuo Chen (PLA University of Science and Technology, P.R. China); Cai Yueming (PLA University of Science and Technology, P.R. China); Wang Lei (PLA University of Science and Technology, P.R. China)

3. **Performance Analysis of Dual-Hop MIMO-MRC AF Relaying in the Presence of Co-Channel Interference at the Destination**

Xiaoming Xu (PLA University of Science and Technology, P.R. China); Cai Yueming (PLA University of Science and Technology, P.R. China); Weiwei Yang (PLA University of Science and Technology, P.R. China); Peng Zhang (China Electronic System Engineering Company, P.R. China)

4. **Outage Performance Analysis of Transmit Antenna Selection in MIMO Decode-And-Forward Relaying Over Nakagami-m Fading Channels**

Yang Gao (Xidian University, P.R. China); Jianhua Ge (Xidian University, P.R. China); Ming Jin (Ningbo University, P.R. China)

5. **Outage Probability Analysis of Asymmetrical Bi-Directional Multi-Relay Systems with Network Coding**

Hua Tian (PLA University of Sci. and Tech., P.R. China); Wenwen Liang (PLA University of Science and Technology, P.R. China); Youyun Xu (PLA University of Science and Technology, P.R. China); Kui Xu (PLA University of Science and Technology, P.R. China); Lianguo Wu (PLA University of Science and Technology, P.R. China)

6. **Asymptotic Energy Efficiency Analysis for Noisy Relay Systems with Interference-Limited Destination**

Yuning Wang (Beijing University of Posts and Telecommunications, P.R. China); Jianhua Zhang (Beijing University of Posts and Telecommunications, P.R. China); Ping Zhang (Beijing University of Posts and Telecommunications, P.R. China)

WCS-11: MIMO and Multiple Antennas

Date: Oct. 27, 2012
Time: 8:45am – 10:15am
Room: Cuisong（翠松厅）
Chair: Gang Wu, University of Electronic Science and Technology of China, P.R. China

1. **An Improved LR-aided K-Best Algorithm for MIMO Detection**

Qi Zhou (Georgia Institute of Technology, USA); Xiaoli Ma (Georgia Institute of Technology, USA)

2. **Exploiting Statistical and Outdated CSI in Multiuser Downlink Transmission**

Shi Jin (Southeast University, P.R. China); Jue Wang (Southeast Unversity, P.R. China); Michail Matthaiou (Chalmers University of Technology, Sweden); Xiqi Gao (Southeast University, P.R. China)

3. **The Interference of MIMO Transmission Modes in Downlink LTE Systems**
   Deli Jia (University of Electronic Science and Technology of China, P.R. China); Gang Wu (University of Electronic Science and Technology of China, P.R. China); Shaoqian Li (University of Electronic Science and Technology of China, P.R. China)

4. **A Dual-Antenna Based Handover Scheme for GSM-R Networks**
   Pengyuan Du (Shanghai Jiao Tong University, P.R. China); Lujin Luo (Shanghai Jiao Tong University, P.R. China); Yongsen Ma (Shanghai Jiao Tong University, P.R. China); Chengnian Long (Shanghai Jiao Tong University, P.R. China)

5. **Joint Iterative Decoding and MMSE-SIC VBLAST Detection of LDPC Coded MIMO Systems**
   Jianrong Bao (Hangzhou Dianzi University, P.R. China); Xiaorong Xu (Hangzhou Dianzi University, P.R. China); Bing Jiang (Hangzhou Dianzi University, P.R. China)

WCS-12: Collaborative and Cognitive Communications
Date: Oct. 27, 2012
Time: 8:45am – 10:15am
Room: Qingsong（青松厅）
Chair: Lingyang Song, Peking University, P.R. China

1. **MIMO Physical Layer Network Coding Based on VBLAST Detection (Invited)**
   Shengli Zhang (Shenzhen University, P.R. China); Canping Nie (Shenzhen University, P.R. China); Liya Lu (Shenzhen University, P.R. China); Shengqi Zhang (ZTE Co. Shenzhen, P.R. China); Qian Gongbin (Shenzhen University, P.R. China)

2. **Investigation of Multi-Link Spatial Correlation Properties (Invited)**
   Xiang Cheng (Peking University, P.R. China); Chengxiang Wang (Heriot-Watt University, United Kingdom); Ai Bo (Beijing Jiaotong University, P.R. China); Xuefeng Yin (Tongji University, P.R. China); Bingli Jiao (Peking University, P.R. China)

3. **Energy-Efficient Feedback Communication based on the S-K Scheme in Cognitive Radio Systems (Invited)**
   Xiao Cai (Zhejiang University, P.R. China); Zhaoyang Zhang (Zhejiang University, P.R. China); Yu Zhang (Zhejiang University, P.R. China); Rui Yin (Zhejiang University, P.R. China); Caijun Zhong (Zhejiang University, P.R. China)

4. **Noncoherent Amplify-and-Forward Cooperative OFDM in Block Fading Channels**
   Ye Yang (Xidian University, P.R. China); Jianhua Ge (Xidian University, P.R. China); Tsung-Hui Chang (Taiwan University of Science and Technology, Taiwan); Yin Sun (Tsinghua University, P.R. China)

5. **A Novel Data Transmission Scheme for Two-Way Multiantenna AF Relay**

Systems

Jing Yang (Southwest Jiaotong University, P.R. China); Zhiguo Ding (Newcastle University, United Kingdom); Pingzhi Fan (Southwest Jiaotong University, P.R. China)

6. **A Cooperative Transmission Scheme for Secondary Users in Cognitive Radio Networks**

Jianbai Chen (Nanjing University of Posts and Telecommunications, P.R. China); Baoyu Zheng (Nanjing University of Posts and Telecommunications, P.R. China)

WCS-13: OFDM and OFDM Systems

Date: Oct. 27, 2012
Time: 8:45am – 10:15am
Room: Baisong（白松厅）
Chair: Pengcheng Zhu, Southeast University, P.R. China

1. **Physical Layer Signaling Transmission Using Walsh Sequences for OFDM Systems**

Bo Hao (Tsinghua University, P.R. China); Jun Wang (Tsinghua University, P.R. China); Zhaocheng Wang (Tsinghua University, P.R. China)

2. **A Modified SLM Scheme with Low Complexity for Reducing the PAPR of OFDM Systems Without Side Information**

Jinwei Ji (Xidian University, Xi'an, P.R. China); Guangliang Ren (Xidian University, P.R. China)

3. **Scalable Video Broadcast Over Multiuser OFDM Systems**

Lan Tang (Nanjing University, P.R. China); Xinggan Zhang (Nanjing University, P.R. China); Yechao Bai (Nanjing University, P.R. China); Pengcheng Zhu (Southeast University, P.R. China)

4. **Design and Implementation of OFDMA-based WLAN Prototype Systems**

Damin Wu (Southeast University, P.R. China); Nan Bao (Southeast University, P.R. China); Weiwei Xia (Southeast University, P.R. China); Lianfeng Shen (Southeast University, P.R. China)

5. **Fast Optimal Resource Allocation Algorithm for Multicast OFDM Systems**

Zanjie Huang (University of Science and Technology of China, P.R. China); Xiaoming Zhao (University of Science and Technology of China, P.R. China); Chenguang He (University of Science and Technology of China, P.R. China); Yu Gu (National Institute of Informatics, Japan); Hao Zhou (University of Science and Technology of China, P.R. China); Baohua Zhao (University of Science and Technology of China, P.R. China)

WCS-14: Cooperative Communication and Jamming

Date: Oct. 27, 2012
Time: 10:45am – 12:15am
Room: Cuisong（翠松厅）

Chair: Shi Jin, Southeast University, P.R. China

1. **Coded Cooperation in Asymmetric Two-Way Relay Networks**

   Qin Yuan (University of Science and Technology of China, P.R. China); Sihai Zhang (University of Science and Technology of China, P.R. China); Zhao Ming (University of Science and Technology of China, P.R. China); Wuyang Zhou (University of Science and Technology of China, P.R. China)

2. **Performance of Cooperative Amplify-and-Forward Protocols in Vehicular Ad-Hoc Networks**

   Zeinab Tirkan (Imam Khomeini International University, Iran); Mehrdad Shirkhani (Imam Khomeini International University, Iran); Abbas Taherpour (Imam Khomeini International University, Iran); Murat Uysal (Ozyegin University, Turkey)

3. **Fairness Study on Two-Hop Selection Cooperation in Wireless Networks**

   Zhang Qian (Tsinghua University, P.R. China); Yuhan Dong (Tsinghua University, P.R. China); Xuedan Zhang (Tsinghua University, P.R. China); Sheng Zhang (Tsinghua university, P.R. China); Xiaokang Lin (Tsinghua University, P.R. China)

4. **Performance Analysis and Optimization of Two-Way Cooperative Communications in Inter-Vehicular Networks**

   Mehrdad Shirkhani (Imam Khomeini International University, Iran); Zeinab Tirkan (Imam Khomeini International University, Iran); Abbas Taherpour (Imam Khomeini International University, Iran)

5. **Optimal Resource Allocation for OFDM Wiretap Channels with Cooperative Jammer**

   Zhang-Ju Yu (Nanjing University of Posts and Telecommunications, P.R. China); Bao-Yun Wang (Nanjing University of Posts and Telecommunications, P.R. China); Yayan Ma (Nanjing University of Posts and Telecommunications, P.R. China); Junxi Zhao (Nanjing University of Posts and Telecommunications, P.R. China)

6. **Friendly Cooperation Jamming for Secrecy in LOS Channels**

   Bin Yang (Xi'an Jiaotong University, P.R. China); Wenjie Wang (Xi'an Jiaotong University, P.R. China); Jiancun Fan (Xi'an Jiaotong University, P.R. China); Qinye Yin (Xi'an Jiaotong University, P.R. China)

WCS-15: Channel Characterization and Capacity Analysis
Date: Oct. 27, 2012
Time: 10:45am – 12:15am
Room: Qingsong（青松厅）
Chair: Xuefeng Yin, Tongji University, P.R. China

1. **MIMO-OFDM Wireless Channel Prediction by Exploiting Spatial Correlation**

   Lihong Liu (Fudan University, P.R. China); Hui Feng (Fudan University, P.R. China); Bo Hu

(Fudan University, Shanghai, P.R. China); Jianqiu Zhang (Fudan University, P.R. China)

2. **A Time-Variant MIMO Channel Model Based on the IMT-Advanced Channel Model**

   Zhiyong Zhu (Beijing University of Posts and Telecommunications, P.R. China); Yutao Zhu (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)

3. **A Method for WSN Channel Modeling via Stochastic Differential Equations and Its Applications**

   Liulei Zhou (Soochow University, P.R. China); Luoquan Hu (Nanjing University of Posts and Telecommunications, P.R. China); Yiming Wang (Soochow University, P.R. China); Jia Hou (Soochow University, P.R. China); Shuqi Liu (Soochow University, P.R. China)

4. **Capacity Analysis of Cognitive MISO Multicast Networks**

   Jianbo Ji (Shanghai Jiao Tong University, P.R. China); Renhua Ge (Guilin University of Aerospace Technology, P.R. China); Wen Chen (Shanghai Jiao Tong University, P.R. China)

5. **Ergodic Capacity Region for the Uplink OFDMA Networks**

   Zelang Wang (Zhejiang University, P.R. China); Huifang Chen (Zhejiang University, P.R. China); Lei Xie (Zhejiang University, P.R. China)

WCS-16: Resource Allocation and Scheduling

Date: Oct. 27, 2012
Time: 10:45am – 12:15am
Room: Baisong（白松厅）
Chair: Xiang Cheng, Peking University, P.R. China

1. **User-Centric Compensation Framework with Universal Pricing for Hybrid Femtocell Networks**

   Fei Shen (Dresden University of Technology, Germany); Eduard Jorswieck (Dresden University of Technology, Germany)

2. **Utility-Based Bandwidth Allocation Algorithm for Heterogeneous Wireless Networks**

   Rong Chai (Chongqing University of Posts and Telecommunications, P.R. China); Xiujuan Wang (Chongqing University of Posts and Telecommunications, P.R. China); Qian-bin Chen (Chongqing university of Posts and telecommunications, P.R. China)

3. **Low-Complexity Energy-Efficient Resource Allocation in OFDMA Networks**

   Qiaoling Yu (University of Electronic Science and Technology of China (UESTC), P.R. China); Gang Wu (University of Electronic Science and Technology of China, P.R. China); Qian Tang (University of Electronic Science and Technology of China, P.R. China); Shaoqian Li (University of Electronic Science and Technology of China, P.R. China)

4. **Enhanced Multiuser Scheduling Using Modified SLNR Metric with Outdated Partial CSI**

   Ruichi Yu (Southeast University, P.R. China); Binbin Dai (University of Toronto, Canada); Wei Xu (Southeast University, P.R. China)

5. **Optimal Energy-Efficient Scheduling over Fading Channels with Non-ideal Circuit Power**

   Yinghao Jin (University of Science and Technology of China, P.R. China); Jie Xu (National University of Singapore, Singapore); Ling Qiu (PCN&SS Lab, P.R. China)

6. **A Downlink User Speed Based Scheduling Algorithm for Mobile Systems with Time Multiplexing Pilot**

   Yuzhuang Miao (Peking University, P.R. China); Meng Ma (Peking University, P.R. China); Xiang Cheng (Peking University, P.R. China); Bingli Jiao (Peking University, P.R. China)

WCS-17: Detection and Channel Estimation
Date: Oct. 27, 2012
Time: 14:00pm – 15:30pm
Room: Baisong（白松厅）
Chair: Xuefeng Yin, Tongji University, P.R. China

1. **A Low-Complexity Symbol-Level Differential Detection Scheme for IEEE 802.15.4 O-QPSK Signals**

   Cong Wang (Tsinghua University, P.R. China); Yongpan Liu (Tsinghua University, P.R. China); Rong Luo (Tsinghua University, P.R. China); Huazhong Yang (Tsinghua University, P.R. China)

2. **Performance of Star 16QAM Using Iterative Decision-Directed Channel Estimation 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)

3. **Adaptive Doppler Frequency Shift Estimation for OFDM Systems**

   Qinghua Tian (Beijing University of Posts and Telecommunications, P.R. China); Qi Zhang (Beijing University of Posts and Telecommunications, P.R. China); Xiangjun Xin (Beijing University of Posts and Telecommunications, P.R. China); Dahsiung Hsu (Beijing University of Posts and Telecommunications, P.R. China)

4. **A Low-Complexity Time-Domain Channel Estimator for ZP-OFDM Systems**

   Jiong Shi (Zhejiang Wanli University, P.R. China); Liping Jin (Zhejiang Wanli University, P.R. China); Zhaoxi Fang (Zhejiang Wanli University, P.R. China); Jungan Chen (Zhejiang Wanli University, P.R. China)

5. **On-Line and Dynamic Estimation of Rician Fading Channels in GSM-R**

Networks

Yongsen Ma (Shanghai Jiao Tong University, P.R. China); Pengyuan Du (Shanghai Jiao Tong University, P.R. China); Xiaofeng Mao (Shanghai Jiao Tong University, P.R. China); Chengnian Long (Shanghai Jiao Tong University, P.R. China)

6. **Dynamic Range Selection for Antenna-Array Gains in High-Resolution Channel Parameter Estimation**

Xuefeng Yin (Tongji University, P.R. China); Yuandong Hu (Tongji University China, P.R. China); Zhimeng Zhong (Huawei Technology Company, P.R. China)

WCS-18: Wireless Green Communications

Date: Oct. 27, 2012
Time: 16:00pm – 17:30pm
Room: Baisong（白松厅）
Chair: Xiaoli Ma, Georgia Institute of Technology, USA

1. **Energy-Efficiency of Very Large Multi-User MIMO Systems**

Hu Ying (Southeast University, P.R. China); Baofeng Ji (Southeast University, Nanjing, Jiangsu, P.R. China); Yongming Huang (Southeast University, P.R. China); Luxi Yang (Southeast University, P.R. China)

2. **Dynamic User Association for Energy Minimization in Macro-Relay Networks**

Li Xin (Southeast University, P.R. China); Hao Wang (Southeast University, P.R. China); Nan Liu (Southeast University, P.R. China); Xiaohu You (Southeast University, P.R. China)

3. **Energy Efficiency Driven Random Access in WLAN Systems**

Shiyang Chen (Shanghai Jiao Tong University, P.R. China); Xiaoying Gan (Shanghai Jiao Tong University, P.R. China); He Li (Shanghai Jiao Tong University, P.R. China)

4. **Semi-Dynamic Switch on/off Algorithm over Multi-Pico Stations in Heterogeneous Networks**

You Fu (Beijing Institute of Technology, P.R. China); Zesong Fei (Beijing Institute of Technology, P.R. China); Chengwen Xing (Beijing Institute of Technology, P.R. China); Jingming Kuang (Beijing Institute of Technology, P.R. China); Wan Lei (Huawei Technology Ltd, P.R. China)

5. **Energy Savings Using an Adaptive Base Station to Relay Station Switching Paradigm**

ATM Shafiul Alam (Open University, United Kingdom); Laurence S Dooley (Open University, United Kingdom); Adrian Poulton (The Open University, United Kingdom); Yusheng Ji (National Institute of Informatics, Japan)

6. **Decentralized Energy Management System for Charging and Discharging of Plug-in Electric Vehicles**

Chao-Kai Wen (Sun Yat-Sen University, Taiwan); Jung-Chieh Chen (Kaohsiung Normal University, Taiwan); Jen-Hao Teng (Sun Yat-sen University, Taiwan); Pangan Ting (Tsing Hua

University, Taiwan)

WCS-19: Miscellaneous Topics in Wireless Communications
Date: Oct. 27, 2012
Time: 16:00pm – 17:30pm
Room: Xuesong Hall （雪松厅）
Chair: Zhiguo Shi, Zhejiang University, P.R. China

1. **A Lightweight Key Management Scheme for 60 GHz WPAN**
   Ruixue Sun (Zhejiang University, P.R. China); Zhiguo Shi (Zhejiang University, P.R. China); Rongxing Lu (University of Waterloo, Canada); Jian Qiao (University of Waterloo, Canada); Sherman Shen (University of Waterloo, Canada)

2. **Distributed Coalition Formation for Selfish Relays and Eavesdroppers in Wireless Networks: A Job-Hopping Game**
   Yang Cao (Huazhong University of Science and Technology, P.R. China); Jiaolong Wei (Huazhong University of Science and Technology, P.R. China)

3. **Experimental Study on Particle Filter Based Synchronization of Chaotic Colpitts Circuits with Application to Secure Communications**
   Songjie Bi (Zhejiang University, P.R. China); Zhiguo Shi (Zhejiang University, P.R. China); Hongtao Zhang (University of Waterloo, Canada); Sherman Shen (University of Waterloo, Canada)

4. **Performance Analysis of Synchronization Based on One-Bit Quantization in Low SNR Multipath Regime**
   Jin Zhu (Tsinghua University, P.R. China)

5. **HCVP: A Hybrid Cognitive Validation Platform for WBANs**
   Junchao Han (Shanghai Jiao Tong University, P.R. China); Jing Liu (Shanghai Jiao Tong University, P.R. China); Hui Yu (Shanghai Jiao Tong University, P.R. China); Chen Chen (China Samsung Telecom R&D Center, P.R. China); Shen Zhichun (China Samsung Telecom R&D Center, P.R. China)

6. **On the Secrecy Mutual Information of Spatial Modulation with Finite Alphabet**
   Xinrong Guan (PLA University of Science and Technology, P.R. China); Cai Yueming (PLA University of Science and Technology, P.R. China); Weiwei Yang (PLA University of Science and Technology, P.R. China)

Wireless Networking Symposium

WNS-01: Medium Access Control
Date: Oct. 25, 2012

Time: 14:00pm – 15:30pm
Room: Baisong（白松厅）
Chair: Xiaodong Lin, University of Ontario Institute of Technology, Canada

1. **An Interference Tolerance Aware Multiple Access Protocol for Wireless Networks**

   Haiying Zhang (Xidian University, P.R. China); Jilong Liu (Xidian University, P.R. China); Mingwu Yao (Xidian University, P.R. China)

2. **A Distributed TDMA-Based MAC Protocol for Ad Hoc Networks with Directional Antennas**

   Dong Hao (Beijing University of Posts and Telecommunications, P.R. China); Dan Pu Liu (BUPT, P.R. China)

3. **An Adaptive Collision-Free MAC Protocol Based on TDMA for Inter-Vehicular Communication**

   Weijie Guo (University of Science and Technology of China, P.R. China); Liusheng Huang (University of Science and Technology of China, P.R. China); Long Chen (University of Science and Technology of China, P.R. China); Hongli Xu (University of Science and Technology of China, P.R. China); Jietao Xie (University of Science & Technology of China, P.R. China)

4. **A Novel Hybrid Random Access Policy Based on Spectrum Occupation**

   Tong Zhang (Nanjing University of Posts and Telecommunications, P.R. China); Xiaorong Zhu (Nanjing University of Posts and Telecommunications, P.R. China); Shixiang Shao (Nanjing University of Posts and Telecommunications, P.R. China)

5. **Design of QSPM-MAC: Quasi-Synchronous Priority Multi-Channel MAC Access Protocol**

   Jingye Li (Beijing University of Posts and Telecommunications, P.R. China); Jing Gao (Beijing University of Posts and Telecommunications, P.R. China); Tao Luo (Beijing University of Posts and Telecommunications, P.R. China); Guangxin Yue (Beijing University of Posts and Telecommunications, P.R. China)

WNS-02: Routing
Date: Oct. 25, 2012
Time: 14:00pm – 15:30pm
Room: Chisong（赤松厅）
Chair: Hangguan Shan, Zhejiang University, P.R. China

1. **An Efficient Trust-Based Opportunistic Routing for Ad Hoc Networks**

   Wang Bo (Wuhan University, P.R. China)

2. **A Novel Spectrum-Aware Routing Protocol for Multi-hop Cognitive Radio Ad Hoc Networks**

Sun Baoming Sun (PLA University of Science and Technology, P.R. China); Jianfeng Zhang (PLA University of Science and Technology, P.R. China); Wei Xie (PLA University of Science and Technology, P.R. China); Ning Li (PLA University of Science and Technology, P.R. China); Youyun Xu (PLA University of Science & Technology, P.R. China)

3. **A Vehicle Density and Load Aware Routing Protocol for VANETs in City Scenarios**

Chunchun Zhao (Xidian University, P.R. China); Changle Li (National Institute of Information and Communications Technology, Japan)

4. **Joint Routing and Channel Assignment with Switching Interval Maximization for Cognitive Radio Networks**

Liren Lai (Zhejiang University, P.R. China); Jian Wang (Zhejiang University, P.R. China); Aiping Huang (Zhejiang University, P.R. China); Hangguan Shan (Zhejiang University, P.R. China)

5. **A Utility Based Relay Vehicle Selection Algorithm for VANET**

Qian-Bin Chen (Chongqing university of Posts and telecommunications, P.R. China); Hongling Li (Chongqing University of Posts and Telecommunications, P.R. China); Bin Yang (Chongqing University of Posts and Telecommunications, P.R. China); Rong Chai (Chongqing University of Posts and Telecommunications, P.R. China)

WNS-03: Data Aggregation and Prediction
Date: Oct. 25, 2012
Time: 16:00pm – 17:30pm
Room: Baisong（白松厅）
Chair: Changle Li, Xidian University, P.R. China

1. **On Real-Time Data Gathering in Next Generation Satellite-Routed Sensor System (SRSS)**

Yuichi Kawamoto (Tohoku University, Japan); Hiroki Nishiyama (Tohoku University, Japan); Nei Kato (Tohoku University, Japan); Shinichi Yamamoto (National Institute of Information and Communications Technology, Japan); Naoko Yoshimura (National Institute of Information and Communications Technology, Japan); Naoto Kadowaki (National Institute of Information and Communications Technology, Japan)

2. **LPDA: A Lightweight Privacy-Preserving Data Aggregation Scheme for Smart Grid**

Khalid Alharbi (Northern Borders University, Saudi Arabia); Xiaodong Lin (University of Ontario Institute of Technology, Canada)

3. **A New Data Gathering Scheme for Trajectory Constrained Mobile Sink in WSN**

Zhongyu Zhang (Beijing Institute of Technology, P.R. China); Zunwen He (Beijing Institute of Technology, P.R. China); Jianguang Jia (Beijing Institute of Technology, P.R. China); Cunxiang Chen (Beijing Institute of Technology, P.R. China)

4. **A New Approach for Multi-Source Data Prediction in Wireless Sensor Networks: Collaborative Filtering**

    Mahdieh Inanloo (Sharif University of Technology, Iran); Majid Ashouri (Sharif University of Technology, Iran); Sanaz Gheibi (Sharif University of Technology, Iran); Ali Mohammad Afshin Hemmatyar (Sharif University of Technology, Iran)

WNS-04: Resource Allocation in Wireless Networks (I)
Date: Oct. 25, 2012
Time: 16:00pm – 17:30pm
Room: Chisong（赤松厅）
Chair: Lianfeng Shen, Southeast University, P.R. China

1. **Dynamic Bandwidth Allocation in Mobile Hotspots**

    Younghyun Kim (Korea University, Korea); Sangheon Pack (Korea University, Korea); Sherman Shen (University of Waterloo, Canada)

2. **A Dynamic Bandwidth Allocation Algorithm Based on Transmission Rate Adaptation in Heterogeneous Wireless Networks**

    Geng Chen (Southeast University, P.R. China); Jing Hu (Southeast University, PRC, P.R. China); Weiwei Xia (Southeast University, P.R. China); Lianfeng Shen (Southeast University, P.R. China)

3. **Energy-Efficient Radio Resource and Power Allocation for Device-to-Device Communication Underlaying Cellular Networks**

    Feiran Wang (Peking University, P.R. China); Chen Xu (Peking University, P.R. China); Lingyang Song (Peking University, P.R. China); Zhu Han (University of Houston, USA); Baoxian Zhang (Graduate University of the Chinese Academy of Sciences, P.R. China)

4. **Joint Resource Allocation Method in Heterogeneous Wireless Networks Based on Genetic Algorithm**

    Li He (University of Electronic Science and Technology of China, Chengdu, P.R. China); Xin Su (Tsinghua University, P.R. China); Jie Zeng (Tsinghua University, P.R. China); Yujun Kuang (University of Electronic Science and Technology of China, P.R. China)

5. **Resource Allocation Scheme for Device-to-Device Communication Underlying LTE Downlink Network**

    Ran An (Nanjing University of Posts and Telecommunications, P.R. China); Jun Sun (Nanjing University of Posts and Telecommunications, P.R. China); Su Zhao (Nanjing University of Posts and Telecommunications, P.R. China); Shixiang Shao (Nanjing University of Posts and Telecommunications, P.R. China)

WNS-05: Resource Allocation in Wireless Networks (II)
Date: Oct. 26, 2012
Time: 14:00pm – 15:30pm
Room: Chisong（赤松厅）

1. **A Rate Allocation Scheme with Inter-Session Network Coding in Wireless Networks**

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

2. **SuperSA: Superframe Design Based Slot Allocation in Wireless Body Area Networks for Healthcare Systems**

   Haoran Li (Shanghai Jiao Tong University, P.R. China); Cailian Chen (Shanghai Jiao Tong University, P.R. China); Wenbin Yu (Shanghai Jiao Tong University, P.R. China); Bo Yang (Shanghai Jiao Tong University, P.R. China); Xinping Guan (Shanghai Jiao Tong University, P.R. China)

3. **Low-Complexity Channel Reservation Design Scheme in Cognitive Radio Networks**

   Jian Wang (Zhejiang University, P.R. China); Aiping Huang (Zhejiang University, P.R. China)

4. **Virtual Cell-Breathing Based Load Balancing in Downlink LTE-A Self-Optimizing Networks**

   Shaojie Yang (Southeast University, P.R. China); Wei Zhang (Southeast University, P.R. China); Xinsheng Zhao (Southeast University, P.R. China)

5. **Adaptive Frame Size Control Based on Resource Allocation for Machine-to-Machine Services in LTE Wireless Networks**

   Ming He (Southeast University, P.R. China); Sha Luo (Southeast University, P.R. China); Xinsheng Zhao (Southeast University, P.R. China)

WNS-06: Miscellaneous Topics in Wireless Networks
Date: Oct. 26, 2012
Time: 16:00pm – 17:30pm
Room: Chisong（赤松厅）
Chair: Hangguan Shan, Zhejiang University, P.R. China

1. **Multi-Hop Network Localization in Multi-Radius Unit Disk Graph Model**

   Phisan Kaewprapha (Lehigh University, USA); Tiffany Jing Li (Lehigh University, USA); Nattakan Puttarak (Lehigh University, USA)

2. **RSS-Based Efficient Grid-Scan Localization Algorithm in Wireless Sensor Networks**

   Xinming Zhang (University of Science and Technology of China, P.R. China); Zhigang Duan (University of Science and Technology of China, P.R. China); Zhenzhong Dong (University of Science and Technology of China, P.R. China)

3. **Two-Phase Demand Response Based on Privacy-Preserving Billing for Smart**

Grid

Ying Bi (University of Sydney, Australia); Abbas Jamalipour (University of Sydney, Australia)

4. **An Anti-Blocking Scheme with Spatial Reuse for mmWave Wireless Networks**

Guangcan Yan (Beijing University of Posts and Telecommunications, P.R. China); Dan Pu Liu (Beijing University of Posts and Telecommunications, P.R. China)

5. **Pre-Synchronization of AVS Audio-Video Based on Real-Time Transport Protocols**

Lei Wang (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Weiqiang Wu (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Qinyu Zhang (Shenzhen Graduate School, Harbin Institute of Technology, P.R. China); Changjian Zhang (Harbin Institute of Technology Shenzhen Graduate School, P.R. China)

6. **Designing and Implementing of Multimode Wireless Gateway for VANETs**

Yunchuan Mao (Southeast University, P.R. China); Weiwei Xia (Southeast University, P.R. China); Yi Wu (Fujian normal university, P.R. China); Lianfeng Shen (Southeast University, P.R. China)

WNS-07: Network and User Selection

Date: Oct. 27, 2012
Time: 8:45am – 10:15am
Room: Chisong（赤松厅）
Chair: Cheng Li, Memorial University of Newfoundland, Canada

1. **Network Selection Strategy for Cognitive Radios with Heterogeneous Primary Networks**

Zeng Anmin (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Wang Ye (Harbin institute of Technology Shenzhen Graduate School, P.R. China); Qinyu Zhang (Shenzhen Graduate School, Harbin Institute of Technology, P.R. China); Bin Cao (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Rongxing Lu (University of Waterloo, Canada)

2. **Network Selection in Heterogeneous Wireless Networks Using Learning Automata**

Peng Han (PLA University of Science and Technology, P.R. China); Hua Tian (PLA University of Science and Technology, P.R. China); Wei Xie (PLA University of Science and Technology, P.R. China); Wei Zhong (PLA University of Science and Technology, P.R. China); Ning Li (Nanjing PLA University of Science and Technology, P.R. China)

3. **Risk-Sensitive Learners in Network Selection Games**

Manzoor Ahmed Khan (TU Berlin, Germany); Hamidou Tembine (Supelec, France)

4. **Relay Vehicle Based Access Network Selection Scheme for Vehicular Ad Hoc Network**

Qiong Huang (Chongqing University of Posts and Telecommunications, P.R. China); Yibo Yang (Chongqing University of Posts and Telecommunications, P.R. China); Rong Chai (Chongqing University of Posts and Telecommunications, P.R. China); Qianbin Chen (Chongqing university of Posts and telecommunications, P.R. China)

5. **A New Handover Mechanism for Femtocell-to-Femtocell**

Yidan Zhuang (Nanjing University of Posts & Telecommunications, P.R. China); Su Zhao (Nanjing University of Posts and Telecommunications, P.R. China); Xiaorong Zhu (Nanjing University of Posts and Telecommunications, P.R. China)

6. **On User Selection in Cognitive Broadcast Channels**

Caijun Zhong (Zhejiang University, P.R. China); Tharmalingam Ratnarajah (The University of Edinburgh, United Kingdom)

WNS-08: QoS and Performance Optimization
Date: Oct. 27, 2012
Time: 10:45am – 12:15pm
Room: Chisong（赤松厅）
Chair: Cailian Chen, Shanghai Jiao Tong University, P.R. China

1. **A Scheme for End-to-End QoS Provisioning in Wireless Networks**

Zai-Jian Wang (Nanjing University of Posts and Telecommunications, P.R. China); Yuning Dong (Nanjing University of Posts and Telecommunications, P.R. China); Haitao Zhao (Nanjing University of Posts and Telecommunications, P.R. China); Fang Shuguang (Nanjing University of Posts and Telecommunications, P.R. China)

2. **Lifetime Optimization for Wireless Multihop Networks with Network Coding**

Lianghui Ding (Shanghai Jiao Tong University, P.R. China); Ping Wu (Uppsala University, Sweden); Zhiwen Pan (Southeast University, P.R. China); Xiaohu You (Southeast University, P.R. China)

3. **VoD Streaming Service Scheduling to Minimize the Distortion**

SooYoung Jang (KAIST, Korea); Chae Y. Lee (KAIST, Korea)

4. **Physical Link Optimization in Programmable Mobile Ad Hoc Networks with the Aids of Agent Mobility**

Zhenqiang Mi (University of Science and Technology Beijing, P.R. China); Yang Yang (University of Science and Technology, P.R. China); Zhang Tao (University of Science and Technology Beijing, P.R. China)

5. **Fault-Tolerant Dispersion of Mobile Agents Based on Mobile Ad Hoc Networks**

Zhenqiang Mi (University of Science and Technology Beijing, P.R. China); Yang Yang (University of Science and Technology, P.R. China); Hao Ding (University of Science and Technology Beijing, P.R. China)

6. **On Improved MANET Network Utilization**

   Zhijiang Chang (Delft University of Technology, The Netherlands); Georgi Gaydadjiev (TU-Delft, The Netherlands)

WNS-09: Interference Coordination and Mitigation

Date: Oct. 27, 2012
Time: 14:00pm – 15:30pm
Room: Chisong（赤松厅）
Chair: Zhiwen Pan, Southeast University, P.R. China

1. **A Decentralized Interference Coordination Method for OFDMA Femtocell Networks**

   Shujun Wang (Southeast University, P.R. China); Yuan Zhang (Southeast University, P.R. China); Guangguo Bi (Southeast University, P.R. China)

2. **A Cluster-based TDMA Interference Mitigation Scheme for Heterogeneous Network Convergence**

   Can Zhao (Zhejiang University, P.R. China); Yang Du (Zhejiang University, P.R. China); Zhi Yuan (Shanghai Research Center for Wireless Communications, P.R. China)

3. **Interference Mitigation in Two-Tier OFDMA Femtocell Networks: A Potential Game Approach**

   Hao Wu (Beijing University of Posts and Telecommunications, P.R. China); Hailun Xia (Beijing University of Posts and Telecommunications, P.R. China); Chunyan Feng (Beijing University of Posts and Telecommunications, P.R. China); Sainan Li (Beijing University of Posts and Telecommunications, P.R. China)

4. **Iterative Receiver with Interference Suppression for LTE Systems**

   Jiancun Fan (Xi'an Jiaotong University, P.R. China); Xinmin Luo (Xi'an Jiaotong University, P.R. China); Ying Zhang (Xi'an Jiaotong University, P.R. China)

5. **Interference Coordination Mechanism for Device-to-Device Communication in Uplink Period Underlaying Cellular Networks**

   Di Zhang (Xi'an Jiaotong University, P.R. China); Liao Xuewen (Xi'an Jiaotong University, P.R. China); Jianguo Deng (Xi'an Jiaotong University, P.R. China); Wei Wang (South Dakota State University, USA)

WNS-10: Modeling and Performance Analysis

Date: Oct. 27, 2012
Time: 16:00pm – 17:30pm
Room: Chisong（赤松厅）
Chair: Zaichen Zhang, Southeast University, P.R. China

1. **Modeling for Spectrum Handoff Based on Secondary Users with Different Priorities in Cognitive Radio Networks**

Lei Zhang (Southeast University, P.R. China); Tiecheng Song (Southeast University, P.R. China); Min Wu (Southeast University, P.R. China); Jie Guo (Southeast University, P.R. China); Dafei Sun (Southeast University, P.R. China); Bin Gu (Southeast University, P.R. China)

2. **An Enhanced Cell Reselection Mechanism and Network Analysis Model in 3G/LTE Heterogeneous System**

Xinran Zhang (Beijing University of Posts and Telecommunications, P.R. China); Hao Jin (Beijing University of Posts and Telecommunications, P.R. China); Xiaodong Ji (Beijing University of Posts and Telecommunications, P.R. China); Yuwei Jia (Beijing University of Posts and Telecommunications, P.R. China); Wenbo Wang (Beijing University of Posts and Telecommunications, P.R. China); Mugen Peng (Beijing University of posts & Telecommunications, P.R. China)

3. **Fairness and Capacity Analysis of Opportunistic Feedback Protocol with Proportional Fair or Maximum Throughput Scheduling**

Hang Li (University of Western Australia, Australia); Qinghua Guo (University of Western Australia, Australia); Licai Fang (University of Western Australia, Australia); Defeng Huang (University of Western Australia, Australia)

4. **Packet Spreading without Relaying in Mobile Wireless Networks**

Huazi Zhang (Zhejiang University, P.R. China); Zhaoyang Zhang (Zhejiang University, P.R. China); Huaiyu Dai (NC State University, USA); Shaolei Chen (Zhejiang University, P.R. China)

5. **Connectivity of Mobile Cognitive Radio Networks with Random Waypoint Movement**

Shuqi Liu (Soochow University, P.R. China); Yiming Wang (Soochow University, P.R. China); Cuimei Cui (Soochow University, P.R. China); Liulei Zhou (Soochow University, P.R. China); Rong Chen (Soochow University, P.R. China)