### AHSNS-01: Mobile and Vehicular Ad Hoc Networks

**Date:** Oct. 11, 2017  
**Time:** 14:00pm – 15:30pm  
**Room:** Unique  
**Chair:** Changle Li, Xidian University, P.R. China

1. **In-Car Shopping: A Data Dissemination Scheme for Vehicular Networks in Urban Areas**  
   Chen Chen, Cong Wang, Guoxian Zhang and Zhiyuan Ren (Xidian University, P.R. China); Jingjing Ma (Central South University, P.R. China)

2. **An Efficient Adaptive Frame Aggregation Scheme in Vehicular Ad Hoc Networks**  
   Kui Liu and Changle Li (Xidian University, P.R. China)

3. **HTTP Message Response Time on Destination Node-Driven Routing for Social MANET**  
   Koichi Hirai and Kazumasa Takami (Soka University, Japan)

4. **A Task Assignment Algorithm Based on Particle Swarm Optimization and Simulated Annealing in Ad-hoc Mobile Cloud**  
   Bonan Huang, Weiwei Xia, Yueyue Zhang, Jing Zhang, Qian Zou, Feng Yan, Lianfeng Shen (Southeast University, P.R. China)

5. **A Spectrum Penetration Assisted MAC Protocol for Vehicular Communication Networks**  
   Yu Zhang, Cailian Chen, Jianping He and Xinpeng Guan (Shanghai Jiao Tong University, P.R. China)

   Mengfei Wu, Bajiiao Ma, Zhenyu Liu, Lingyan Xiu, and Lin Zhang (Beijing University of Posts and Telecommunications, P.R. China)

### CTS-01: Coding and Modulation

**Date:** Oct. 11, 2017  
**Time:** 14:00pm – 15:30pm  
**Room:** Perseverance  
**Chair:** Nan Liu, Southeast University, P.R. China

1. **Distance Spectrum and Optimized Design of Concatenated Polar Codes**  
   Minzi Xu, Peiyao Chen, Baoming Bai and Sheng Tong (Xidian University, P.R. China)

2. **Photograph QC-LDPC Codes Design for Multi-Level Cell Flash Memories**  
   Lingjun Kong (Nanjing University of Posts and Telecommunications, P.R. China); Jun Li (Nanjing University of Science and Technology, P.R. China); Pingping Chen (Fuzhou University, P.R. China); Shunwai Zhang (Nanjing University of Posts and Telecommunications, P.R. China)

3. **An Algebraic Approach to Design Low Rate Low Density Parity Check Code**  
   Zhe Zhang, Liang Zhou, Junyi Du and Shenglong Peng (University of Electronic Science and Technology of China, P.R. China)

4. **Construction of Multiple-Rate LDPC Codes Using Modified PEG**  
   Tengfei Chu, Xueqin Jiang (Donghua University, P.R. China); Jia Hou (Soochow University, P.R. China); Huiming Wang (Xian Jiaotong University, P.R. China); Lingjun Kong (Nanjing University of Posts and Telecommunications, P.R. China)

5. **A Universal Interleaver Design for Bit-Interleaved QC-LDPC Coded Modulation**  
   Xiaojian Liu and Yuejun Wei (Huawei Technologies, P.R. China); Ming Jiang (Southeast University, P.R. China)

6. **Multilevel Polar-Coded Modulation Based on Cooperative Relaying**  
   Xuan Ma, Lixin Li, Meng Zhu (Northwestern Polytechnical University, P.R. China); Wei Chen (Tsinghua University, P.R. China); Zhu Han (University of Houston, USA)

### SPS-01: Multimedia Signal Processing (I)

**Date:** Oct. 11, 2017  
**Time:** 14:00pm – 15:30pm  
**Room:** Revolution  
**Chair:** Xin Wei, Nanjing University of Posts and Telecommunications, P.R. China
# WCS-01: Channel Models

**Date:** Oct. 11, 2017  
**Time:** 14:00pm – 15:30pm  
**Room:** Knowledge A  
**Chair:** Yu Liu, Shandong University, P.R. China

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Cluster-based Geometrical Dynamic Stochastic Model for MIMO Scattering Channels</td>
<td>Xiukun Xie, Zaichen Zhang, Hao Jiang, Jian Dang, Liang Wu (Southeast University, P.R. China)</td>
</tr>
<tr>
<td>2. Algorithm for Modeling Dual-Polarized MIMO Channel in Land Mobile Satellite Communications</td>
<td>Xin Wang and Chenhao Qi (Southeast University, P.R. China)</td>
</tr>
<tr>
<td>3. Non-Stationary Mobile-to-Mobile Channel Modeling Using the Gauss-Markov Mobility Model</td>
<td>Ruisi He and Bo Ai (Beijing Jiaotong University, P.R. China); Gordon Stüber (Georgia Institute of Technology, USA); Zhoudai Zhang (Beijing Jiaotong University, P.R. China)</td>
</tr>
<tr>
<td>4. A 3-D HAP-MIMO Channel Model Based on Dynamic Properties of Scatterers</td>
<td>Jingge Hu, Lingge Jiang, Chen He, Zhuxian Lian and Jing Liu (Shanghai Jiao Tong University, P.R. China)</td>
</tr>
<tr>
<td>5. New Deterministic and Statistical Simulation Models for Non-Isotropic UAV-MIMO Channels</td>
<td>Yiran Li and Xiang Cheng (Peking University, P.R. China)</td>
</tr>
</tbody>
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**WNS-01: Resource Allocation (I)**

**Date:** Oct. 11, 2017  
**Time:** 14:00pm – 15:30pm  
**Room:** Zijin  
**Chair:** Sihai Zhang, University of Science and Technology of China, P.R. China

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Protocol-Sequence-Based Media-Access Control with Successive Interference Cancellation (Invited Paper)</td>
<td>Kenneth W. Shum (The Chinese University of Hong Kong, Hong Kong); Yi Chen (The Chinese University of Hong Kong, Shenzhen, P.R. China); Yuan-Hsun Lo (Xiamen University, P.R. China); Wing Shing Wong (The Chinese University of Hong Kong, P.R. China); Yijin Zhang (Nanjing University of Science and Technology, P.R. China)</td>
</tr>
<tr>
<td>2. Beneficial Jamming Design for Interference Alignment Networks</td>
<td>Jing Guo and Yang Cao (Dalian University of Technology, P.R. China); Zhutian Yang (Harbin Institute of Technology, P.R. China); Nan Zhao (Dalian University of Technology, P.R. China); F. Richard Yu (Carleton University, Canada); Yunfei Chen (University of Warwick, UK); Victor C.M. Leung (University of British Columbia, Canada)</td>
</tr>
<tr>
<td>3. Hedonic Coalition Formation Game for Clustered Interference Alignment</td>
<td>Fan Zhao, Pengcheng Zhu, Jiamin Li and Xiaohu You (Southeast University, P.R. China)</td>
</tr>
<tr>
<td>5. Congestion-aware User-centric Cooperative Base Station Selection in Ultra-dense Networks</td>
<td>Mengying Zhang and Xiumei Yang (Shanghai Research Center for Wireless Communications, SIMIT, P.R. China); Tianhong Xu (Shanghai Advanced Research Institute, Chinese Academy of Sciences, P.R. China); Ming-Tao Zhou (Shanghai Research Center for Wireless Communications, SIMIT, P.R. China)</td>
</tr>
<tr>
<td>6. Embedding Virtual Networks Using a Novel Node-Ranking Approach via Exploiting Topology Attributes and Global Network Resources</td>
<td>Haotong Cao, Longxiang Yang and Hongbo Zhu (Nanjing University of Posts and Telecommunications, P.R. China)</td>
</tr>
</tbody>
</table>
1. Underlay Spectrum Sharing with Spatially Random Users and Cooperative Wireless Power Transfer
Chao Zhai (Shandong University, P.R. China); He Chen (University of Sydney, Australia); Xinhua Wang (Qingdao University, P.R. China); Ju Liu (Shandong University, P.R. China)

2. User Pairing and Channel Allocation for Full-Duplex Self-Organizing Small Cell Networks
Qi Zhang, Qingwei Du and Kun Zhu (Nanjing University of Aeronautics and Astronautics, P.R. China)

3. Multi-Objective Resource Allocation in NOMA Cognitive Radios Based on a Practical Non-linear Energy Harvesting Model
Yuhao Wang, Yuhang Wu, and Fuhui Zhou (Nanchang University, P.R. China); Yongpeng Wu (Shanghai Jiao Tong University, P.R. China); Zheng Chu (Middlesex University, UK); Yingjiao Wang (Nanchang University, P.R. China)

4. QoE-aware Resource Allocation Scheme in the OFDMA-based Cognitive Radio Network with Imperfect CSI Consideration
Xi Xi Jin, Lei Xie and Huifang Chen (Zhejiang University, P.R. China)

5. Effective Resource Consumption in Cellular Networks Based on Batch Latency Update
Juma Saidi Ally, Wen Wang, Shiwan Zhang and Wuyang Sun (University of Science and Technology of China, P.R. China)

Boyang Liu and Guangyue Lu (Xi’an University of Posts and Telecommunications, P.R. China); Yan Li (Xidian University, P.R. China); Fuhui Zhou (Nanchang University, P.R. China)

WNSS-01: Physical Layer Security (I)

Date: Oct. 11, 2017
Time: 14:00pm – 15:30pm
Room: Alliance
Chair: Yi Qian, University of Nebraska Lincoln, USA

1. Physical Layer Security in Heterogeneous Cellular Networks: A Spatio-Temporal Perspective
Bing Wang (National Digital Switching System Engineering and Technological Research Center, P.R. China); Chongtao Li (Southeast University, P.R. China); Kaizhi Huang (Information Engineering University, P.R. China); Xiaoming Xu (PLA Army Engineering University, P.R. China); Yi Wang (Zhengzhou University of Aeronautics, P.R. China)

2. Physical Layer Security in IoT: A Spatial-Temporal Perspective
Shuai Zhang, Jianhua Peng (National Digital Switching System Engineering and Technological Research Center, P.R. China); Kaizhi Huang (National Digital Switching System Engineering and Technological Research Center, P.R. China); Xiaoming Xu (Army Engineering University, P.R. China); Zhou Zhang (National Digital Switching System Engineering and Technological Research Center, P.R. China)

3. Physical Layer Security in D2D Communication System Underlying Cellular Networks
Lei Wang, Yi Shi, Mingkai Chen, Jingwu Cui and Baoyu Zheng (Nanjing University of Posts and Telecommunications, P.R. China)

4. Physical Layer Secure Binary Signature Design for Wiretap CDMA Systems
Guangyu Ti, Ming Li, Xiaowen Tian, Zhihuan Wang, Hongyu Li and Qian Liu (Dalian University of Technology, P.R. China)

5. Physical Layer Security of Non-orthogonal Multiple Access in Cognitive Radio Networks
Zhongwu Xiang, Yueming Cai, Weiwei Yang, and Xiaoli Sun (PLA Army Engineering University, P.R. China); Yingbo Hu (Troops 75841, PLA, P.R. China)

6. Hybrid Cache Placement for Improving Physical Layer Security in Cooperative Networks
Fang Shi, Dongqing Xie, and Weijiang Tan (Guangzhou University, P.R. China); Xianfu Lei (Southwest Jiaotong University, P.R. China); Lisheng Fan (Guangzhou University, P.R. China)

AHSNS-02: Wireless Sensor Networks

Date: Oct. 11, 2017
Time: 16:00pm – 17:30pm
Room: Unique
Chair: Shuai Han, Harbin Institute of Technology, P.R. China

1. SADO: State-Associated and Delay-Oriented Data Collection for Intertidal WSNs
Xinyan Zhou, Yushi Cheng and Xiaoyu Ji (Zhejiang University, P.R. China); Wenyuan Xu (University of South Carolina, USA)

2. Communication Protocol with Network Coding in Long-chain Wireless Sensor Networks
Gang Qi and Lin Zheng (Guilin University of Electronic Technology, P.R. China); Jing Zhang (Science and Technology on Communication Networks Laboratory, P.R. China)

3. En-MAC: Environment-Aware MAC Protocol for WSNs in Intertidal Environment
Xiaoan Lai (Zhejiang University, P.R. China); Miaoxu Yang (University of South Carolina, USA); Xiaoyu Ji, Wenyuan Xu and Longdao Chen (Zhejiang University, P.R. China)

4. Matrix Completion Based Sensor Selection Strategies in Wireless Sensor Networks
Xiaoan Zhang and Changchuan Yin (Beijing University of Posts and Telecommunications, P.R. China)

5. A Robot-Assisted Topology Control Algorithm in Software-Defined Sensor Networks
Haohao Yin, Cui Ding, Feng Yan, Weimei Xia and Lianfeng Shen (Southeast University, P.R. China); Shuguang Deng (Hunan City University, P.R. China)

6. Quality of Information Maximization for Wireless Sensor Networks With Heterogeneous Traffic
Chunhui Feng (Xidian University, P.R. China); Peisheng Zhu (Chinese Academy of Sciences, P.R. China); Qinghai Yang (Xidian University, P.R. China)
CTS-02: Coding and Detection
Date: Oct. 11, 2017
Time: 16:00pm – 17:30pm
Room: Perseverance
Chair: Wen Chen, Shanghai Jiaotong University, P.R. China

1. Design of Precoding Matrix Scheme Based on Maximizing Frobenius Norm to Interference Alignment
   Junhui Zhao and Yunyi Liu (Beijing Jiaotong University, P.R. China); Yi Gong (South University of Science and Technology of China, Shenzhen, P.R. China)

2. BMST Coded PPM over Free-space Optical Links with Iterative Receiver
   Jinshun Zhu (Sun Yat-sen University, P.R. China); Shancheng Zhao (Jinan University, P.R. China); Xiao Ma (Sun Yat-sen University, P.R. China)

3. Graph-Merged Detection and Decoding of Polar-Coded MIMO Systems
   Shusen Jing, Junmei Yang, Anlan Yu, Xiaohu You, and Chuan Zhang (Southeast University, P.R. China)

4. Signal Detection with Channel Estimation Error for Full Duplex Wireless System Utilizing Ambient Backscatter
   Chen Chen and Gongpu Wang (Beijing Jiaotong University, P.R. China); Feifei Gao (Tsinghua University, P.R. China); Yulong Zou (Nanjing University of Posts and Telecommunications, P.R. China)

5. Secret Key Generation from Correlated Sources and Secure Link
   Daming Cao and Wei Kang (Southeast University, P.R. China)

6. Compressing Big Graph Data: A Relative Node Importance Approach
   Jiamei Yan and Zhaoyang Zhang (Zhejiang University, P.R. China)

SPS-02: Multimedia Signal Processing (II)
Date: Oct. 11, 2017
Time: 16:00pm – 17:30pm
Room: Revolution
Chair: Xin Wang, Fudan University, P.R. China

1. Robust Watermarking Based on Spread Transform
   Yingying Li and Yifeng Zhang (Southeast University, P.R. China)

2. The Face Detection Algorithm Based on Local Elastic Potential Energy Feature
   Cheng Jiang and Yifeng Zhang (Southeast University, P.R. China)

3. Imaging Experiment of Azimuth-variant Bistatic UWB SAR at UHF Band
   Hongtu Xie (National University of Defense Technology, P.R. China); Shaoying Shi (Air Force Early Warning Academy, P.R. China); Daoxian An (National University of Defense Technology, P.R. China); Fuhai Li (Hunan University, P.R. China); Guoqian Wang (Affiliated Hospital of Hunan Institute of Traditional Chinese Medicine, P.R. China)

4. Distributed Compressive Video Sensing with Adaptive Measurements Based on Temporal Correlativity
   Yang Yang, Zhang Dengyin and Fei Ding (Nanjing University of Posts and Telecommunications, P.R. China)

5. QoE-Driven Centralized Scheduling for HTTP Adaptive Video Streaming Transmission over Wireless Networks
   Tiantian Li and Haixia Zhang (Shandong University, P.R. China); Jie Tian (Shandong Normal University, P.R. China); Shuaishuai Guo (Shandong University, P.R. China)

6. A New Nonlinear Tracking Differentiator and Its Application in Edge Detection
   Song Xue, Xingheng Jiang and Jimiao Duan (Logistical Engineering University, P.R. China)

WCS-03: Relaying
Date: Oct. 11, 2017
Time: 16:00pm – 17:30pm
Room: Knowledge A
Chair: Boyang Liu, Xi’an University of Posts and Telecommunications, P.R. China

1. DF Relaying Networks in Randomly Distributed Interference Environments
   Xiaohui Lai and Wanxin Zou (Shantou University, P.R. China); Dongqing Xie and Lisheng Fan (Guangzhou University, P.R. China)

2. Performance Analysis for Full-Duplex Relaying D2D Communications in Cellular Networks
   Yijin Pan, Ming Chen, Zhaoxue Wang, and Hao Xu (Southeast University, P.R. China)

3. Performance Analysis of Cooperative Relaying Communications for Space Information Networks
   Houlian Gao, Jian Jiao, Shaohua Wu, Shushi Gu, and Qinyu Zhang (Harbin Institute of Technology, P.R. China)

4. Performance Analysis for Cooperative Relaying in Diffusion-Based Molecular Communication
   Bonan Yin, Xiaodong Ji, and Mugen Peng (Beijing University of posts & Telecommunications, P.R. China)

5. Throughput Maximization for Block Fading Buffer-Aided Relay Channels with Non-Ideal Transmitter Circuit Power
   Hengjing Liang, Chuan Huang, Zhi Chen, and Shaoqian Li (University of Electronic Science and Technology of China, P.R. China)

6. Performance Test and Analysis of Multi-hop Network Based on UAV Ad Hoc Network Experiment
   Xudong Wang, Zhichao Mi and Wang Hai (PLA Army Engineering University, P.R. China); Ning Zhao (The 28th Research Institute of China Electronics Technology Group Corporation, P.R. China)

WCS-04: Resource Allocation (I)
Date: Oct. 11, 2017
Time: 16:00pm – 17:30pm
Room: Knowledge B
Chair: Wendong Yang, PLA Army Engineering University, P.R. China
1. Resource Allocation Based on Clustering Algorithm for Hybrid Device-to-Device Networks
   Hao Ren, Fan Jiang, and Honglin Wang (Xi’an University of Posts and Telecommunications, P.R. China)

2. Position-based Mode Selection and Resource Allocation for D2D Communications Underlaying Cellular Networks
   Xiaoyan Liu, Xiukui Li, and Changsheng Liu (Dalian University of Technology, P.R. China)

   Feng Chen and Mingjian Fu (Fuzhou University, P.R. China); Wen-Kang Jia (Chiao Tung University, Taiwan)

4. Ant Colony Optimization Inspired Resource Allocation for Multiuser Multicarrier Systems
   Chia-Hui Liao and Jen-Ming Wu (Tsing Hua University, Taiwan); Jianbo Du and Liqiang Zhao (Xidian University, P.R. China)

5. Energy-Efficient User Access Control and Resource Allocation in HCNs with Non-ideal Circuitry
   Yuhao Zhang, Qimei Cui and Ning Wang (Beijing University of Posts and Telecommunications, P.R. China)

6. Distributed Matching Mechanism for Resource Sharing in Mobile Ad Hoc Cloud
   Li Jin and Ling Tang (Nanjing University of Science and Technology, P.R. China)

WNS-02: Resource Allocation (II)

Date: Oct. 11, 2017
Time: 16:00pm – 17:30pm
Room: Zijin
Chair: Yunlong Cai, Zhejiang University, P.R. China

1. Energy-Efficient Resource Allocation in Delay-Aware Wireless Virtualized Networks
   Tian Dang, Yitao Mo, Yaohua Sun, and Mugen Peng (Beijing University of Posts & Telecommunications, P.R. China)

2. Achieving Optimum Throughput for LTE and WiFi Coexistence
   Xinghua Sun and Jun Zhang (Nanjing University of Posts and Telecommunications, P.R. China); Victor C.M. Leung (University of British Columbia, Canada); Hongbo Zhu (Nanjing University of Posts and Telecommunications, P.R. China)

3. An Evolutionary Game for Joint Wireless and Cloud Resource Allocation in Mobile Edge Computing
   Jing Zhang, Weiwai Xia, Zhixu Cheng, Qian Zou and Boan Huang (Southeast University; Fei Shen (Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, P.R. China); Feng Yan and Lianfeng Shen (Southeast University, P.R. China)

4. Enabling Content Aware QoE Network Bandwidth Allocation

   Lu Wang, Yongxiang Zhao, Chunxi Li, and Yuchun Guo (Beijing Jiaotong University, P.R. China)

   Xinsong Dong, Jianchao Zheng, Yueming Cai (PLA Engineering University, P.R. China); Jihao Yang (Leshan Normal University, P.R. China); Yida Wang (PLA Engineering University, P.R. China)

6. Lifetime Maximization Based Resource Allocation for M2M Communication Networks
   Zhangfeng Ma, Rong Chai and Qianbin Chen (Chongqing University of Posts and Telecommunications, P.R. China)

WNNS-02: Physical Layer Security (II)

Date: Oct. 11, 2017
Time: 16:00pm – 17:30pm
Room: Alliance
Chair: Jun Li, Nanjing University of Science and Technology, P.R. China

1. Secrecy Sum Rate Maximization in NOMA Systems with Wireless Information and Power Transfer
   Ganning He, Lixin Li and Xu Li (Northwestern Polytechnical University, P.R. China); Wei Chen (Tsinghua University, P.R. China); Lie-Liang Yang (University of Southampton, UK); Zhu Han (University of Houston, USA)

2. Secrecy Rate Maximization for MISO System with Energy Harvesting and Eavesdroppers
   Sami Ahmed Haider, Yunlong Cai, and Minjian Zhao (Zhejiang University, P.R. China)

3. Secure OFDM Transmission in Wireless Networks with Untrusted Relays
   Qiuli Dong and Guobing Li (Xi’an Jiaotong University, P.R. China)

4. Secure Precise Transmission with Multi-Relay- Aided Directional Modulation
   Wei Zhu and Feng Shu (Nanjing University of Science and Technology, P.R. China); Tingting Liu (Nanjing Institute of Technology, P.R. China); Xiaobo Zhou, Jingsong Hu, Guangzu Liu, Linqing Gui, Jun Li, and Jinhui Lu (Nanjing University of Science & Technology, P.R. China)

5. Robust Secure Beamforming for MISO SWIPT Broadcast Channels with Confidential Messages
   Yuanlian Huo and Tingting Zhang (Northwest Normal University, P.R. China); Changuo Li (Southeast University, P.R. China)

6. Secrecy Analysis of UL Transmission for SWIPT in WSNs with Densely Clustered Eavesdroppers
   Xin Hu, Kaizhi Huang, and Yajun Chen (National Digital Switching System Engineering and Technological Research Center, P.R. China); Xiaoming Xu and Xiaohu Liang (PLA Army Engineering University, P.R. China)
October 12, 2017 Thursday

AHSNS-03: Localization
Date: Oct. 12, 2017
Time: 14:00pm – 15:30pm
Room: Unique
Chair: Cheng Li, Memorial University, Canada

   Benjian Hao, Di An, Linlin Wang, Zan Li and Yue Zhao (Xidian University, P.R. China)

2. Holographic Radio Interferometry for Target Tracking in Dense Multipath Indoor Environments
   Bing Xu, Wangdong Qi, Yuexin Zhao and Li Wei (PLA Army Engineering University, P.R. China); Cheng Zhang (PLA Airborne Training Base, P.R. China)

3. Geographic Information System based Estimation and Correction Algorithm for Outdoor Location
   Yi Zhang, Lin Ma, Shuai Han and Weixiao Meng (Harbin Institute of Technology, P.R. China)

4. Gaussian Process Based Radio Map Construction for LTE Localization
   Wencan Zhang, Haochen Huang and Xiaohua Tian (Shanghai Jiao Tong University, P.R. China)

5. Enhancing Direction-Finding Accuracy for Shortwave Fixed Stations
   Ying Ju (Xi’an Jiaotong University & State Radio Monitoring Center, P.R. China); Yuan Chen (Shaanxi Monitoring Station, State Radio Monitoring Center, P.R. China); Xiyi Qiu and Qiuye Yin (Xi’an Jiaotong University, P.R. China)

6. Robust Indoor Localization in Ultra Dense Networks: A Fingerprint Similarity Approach
   Danni Hou, Junyu Liu, Min Sheng, Yan Zhang, Linlin Peng, Yang Zheng and Jiandong Li (Xidian University, P.R. China)

CTS-03: Transmission and Multiple Access
Date: Oct. 12, 2017
Time: 14:00pm – 15:30pm
Room: Perseverance
Chair: Li Chen, Sun Yat-sen University, P.R. China

1. An Opportunistic-Bit Scheme with IP Styled Communication
   Bingli Jiao (Peking University, P.R. China)

2. Multi-tap Analog MIMO Self-Interference Cancellation for Full-Duplex Communications
   Yaxin Liu, Donglin Liu, Xudong Li and Chuan Huang (University of Electronic Science and Technology of China, P.R. China)

3. FFRD: Fragment Forwarding and Reassembly Decoupling Based Chunk Transmission in NDN
   Chengbao Cao and Kaiping Xue (University of Science and Technology of China, P.R. China); Hao Yue (San Francisco State University, USA); Junjie Xu (University of Science and Technology of China, P.R. China)

4. Buffer-Aided Secure Two-Hop Communications with Adaptive Link Selection and on/off Power Control
   Jing Wan, Deli Qiao, and Haifeng Qian (East China Normal University, P.R. China)

5. A Rate-Splitting Non-Orthogonal Multiple Access Scheme for Uplink Transmission
   Ye Zhu, Xianbin Wang, Zhaoyang Zhang and Xiaoming Chen (Zhejiang University, P.R. China); Yan Chen (Huawei Technologies, P.R. China)

6. Feedback-aided Irregular Repetition Slotted ALOHA (F-IRSA)
   Dai Jia, Hanxiao Yu, Ce Sun, Zesong Fei, and Jingming Kuang (Beijing Institute of Technology, P.R. China)

SPS-03: Signal Processing for Localization
Date: Oct. 12, 2017
Time: 14:00pm – 15:30pm
Room: Revolution
Chair: Qinghe Du, Xi’an Jiaotong University, P.R. China

1. SAILoc: A Novel Acoustic Single Array System for Indoor Localization
   Guinan Li, Lei Zhanglei, Feng Lin, Minlin Chen, and Zhi Wang (Zhejiang University, P.R. China)

2. Automatic Parking Slot Detection Based on Around View Monitor (AVM) Systems
   Lei Li and Changle Li (Xi’an Jiaotong University, P.R. China); Qieshi Zhang (Waseda University, Japan); Tao Guo and Zhijiang Miao (Xi’an Jiaotong University, P.R. China)

3. Localization for Visible Light Communication with Practical Non-Gaussian Noise Model
   Yueyue Zhang, Yaping Zhu, Weiwei Xia, Feng Yan, and Lianfeng Shen (Southeast University, P.R. China); Yi Wu (Fujian normal university, P.R. China)

4. TOA Estimation in Dense Multipath Environment for Mobile Device Using Audible LFM Signal
   Yifan Gu (Zhejiang University, P.R. China); Shumin Chen (Zhejiang Sci-Tech University, P.R. China); Yanbo Xiang, Yiqian Xia, and Yuanxin Xu (Zhejiang University, P.R. China)

5. Direct Position Determination Based on Unitary Space-time Subspace Data Fusion
   Jie-xin Yin, Rui-rui Liu, Ding Wang, and Ying Wu (Zhengzhou Institute of Information Science and Technology Institute, P.R. China)

   Hongwei Yu and Yi Jiang (Fudan University, P.R. China)

WCS-05: Resource Allocation (II)
Date: Oct. 12, 2017
Time: 14:00pm – 15:30pm
Room: Knowledge A
Chair: Wei Wang, Zhejiang University, P.R. China
1. **Adaptive Multi-Band Resource Allocation for a Two-User Simultaneous Information and Power Transmission System**  
   Xiaoyang Li, Zidong Han and Yi Gong (Southern University of Science and Technology, P.R. China)

2. **Underlay Spectrum Sharing with Wireless Power Transfer Towards Primary User**  
   Chao Zhai (Shandong University, P.R. China); Long Shi (Singapore University of Technology & Design, Singapore); He Chen (University of Sydney, Australia)

   Zhipeng Yan and Mugen Peng (Beijing University of Posts and Telecommunications, P.R. China)

   Zhenwei Xie, Qi Zhu and Su Zhao (Nanjing University of Posts and Telecommunications, P.R. China)

5. **Joint Resource Allocation for Outdoor and Indoor UEs in Heterogeneous Data and Energy Integrated Communication Networks**  
   Yizhe Zhao (University of Electronic Science and Technology of China, P.R. China); Ning Wei (ZTE Corporation, P.R. China); Jie Hu (University of Electronic Science and Technology of China, P.R. China); Kun Yang (University of Essex, UK); Qin Yu and Chuan Huang (University of Electronic Science and Technology of China, P.R. China)

6. **Robust uplink power allocation for two-tier heterogeneous networks**  
   Yongjun Xu, Yuchao Liu, and Rong Lai (Changqing University of Posts and Telecommunications, P.R. China)

**WNS-03: Radio Access Networks**

Date: Oct. 12, 2017  
Time: 14:00pm – 15:30pm  
Room: Zijin  
Chair: TBD

1. **Energy Efficient Content-Centric Beamforming in Multicast Fog Radio Access Network**  
   Xihan Chen, Minjian Zhao and Yunlong Cai (Zhejiang University, P.R. China)

2. **Minimum-Latency Communication in Wireless Mesh Networks Under Noisy Physical Interference Model**  
   Qin Xin (University of the Faroe Islands, Faroe Islands); Xia Yan (University of Hunan, P.R. China)

   Chaohui Zhao, Jiandao Yuan, Aliping Huang, and Hangguan Shan (Zhejiang University, P.R. China)

4. **Cell Planning for Millimeter Wave Cellular Networks**  
   Qiyaoh Wu, Li Chen, Xiaohui Chen, and Weidong Wang (University of Science and Technology of China, P.R. China)

5. **A Novel Online Incentive Mechanism under Budget Constraint for Crowdsourcing Systems**  
   Jiawei Zhang, Xiong Wang, Xiaoying Gan and Xiaohua Tian (Shanghai Jiao Tong University, P.R. China)

6. **Big Data Enabled User Behavior Characteristics in Mobile Internet**  
   Shuai Jiang, Baoshan Wei, Tong Wang, Zhenbang Zhao and Xing Zhang (Beijing University of Posts and Telecommunications, P.R. China)

**WNSS-03: Jamming and Secure Transmission**

Date: Oct. 12, 2017  
Time: 14:00pm – 15:30pm  
Room: Alliance  
Chair: Caijun Zhong, Zhejiang University, P.R. China

1. **Secure UAV Communication in the Presence of Full-Duplex Active Eavesdropper (Invited Paper)**  
   Chenxi Liu and Tony Q. S. Quek (Singapore University of Technology and Design, Singapore); Jemin Lee (Daegu Gyeongbuk Institute of Science and Technology, Korea)

2. **Efficient and Unrecognizable OFDM Jamming By Failing the Cyclic Prefix Functionality**  
   Shirui Wang, Ying Wang, Ruijin Sun and Yuanfei Liu (Beijing University of Posts and Telecommunications, P.R. China)
3. **Achieving Secure Transmission using Feedback-based LT Code with Degree Distribution Updated**
Likelang Wang, Jianhua Peng, Yi Ming, and Kaiyi Huang (Zhengzhou Institute of Information Science and Technology, P.R. China); Aiqin Li (PLA 61062 troops, P.R. China)

Xin Jiang (Zhejiang University, P.R. China); Sheng Yang (CentraleSupélec, France); Caijun Zhong, Fengzhong Qu, Xiaoming Chen, and Zhaoyang Zhang (Zhejiang University, P.R. China)

5. **Secure Transmission of Cognitive Untrusted Relay Networks with Selection Diversity**
Dechuan Chen, Yunpeng Cheng, Weiwei Yang and Jianwei Hu, Yueming Cai (PLA Army Engineering University, P.R. China); Yingbo Hu (PLA 75841 Troops, P.R. China)

6. **UAV Wireless Information Surveillance via Proactive Eavesdropping**
Qingheng Song and Shi Jin (Southeast University, P.R. China); Fu-Chun Zheng (University of York, UK); Shengli Zhang (Shenzhen University, P.R. China)

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**AHSNS-04: Sensing and Estimation**

**Date:** Oct. 12, 2017  
**Time:** 16:00pm – 17:30pm  
**Room:** Unique  
**Chair:** Hai Wang, PLA Army Engineering University, P.R. China

1. **An Energy-Saving Spectrum Sensing Scheme with Combined Clustering and Censoring in Cognitive Wireless Sensor Networks**
Yitao Liu and Changping Zhu (Hohai University, P.R. China); Peishun Yan (Nanjing University of Posts and Telecommunications, P.R. China)

2. **A Compressive and Adaptive Sampling Approach in Crowdsensing Networks**
Jingjing Chen, Zhonghui Chen, Haiyin Zhang and Xinxin Feng (Fuzhou University, P.R. China)

3. **Collaborative Data Collection with Hybrid Vehicular Crowd Sensing in Smart Cities**
Maoqiang Wu, Dongdong Ye, Jiwen Kang and Rong Yu (Guangdong University of Technology, P.R. China)

Bo Chen, Xi Li and Xuehai Zhou (University of Science and Technology of China, P.R. China)

5. **An Unscented Kalman Filter Based Available Bandwidth Estimation Algorithm for Space Bundle Links**
Xiaoli Liao (Harbin Institute of Technology, Shen Zhen, P.R. China); Zhihua Yang (Harbin Institute of Technology, P.R. China); Peng Yuan (Harbin Institute of Technology, Shenzhen, P.R. China)

6. **Traffic Estimation in Road Networks via Compressive Sensing**
Jiyin Li, Haiyin Zheng, Xinxin Feng and Zhonghui Chen (Fuzhou University, P.R. China)

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**CTS-04: Performance Analysis**

**Date:** Oct. 12, 2017  
**Time:** 16:00pm – 17:30pm  
**Room:** Perseverance  
**Chair:** Weixiao Meng, Harbin Institute of Technology, P.R. China

1. **Can Channel Output Feedback Enhance the Secrecy Capacity of the Finite State Markov Wiretap Channel with Delayed State Feedback?**
Bin Dai and Zheng Ma (Southwest Jiaotong University, P.R. China)

2. **On the Capacity of an Orbital Angular Momentum Based MIMO Communication System**
Yuqing Yuan, Zhaoyang Zhang, Ji Cang, Huayang Wu and Caijun Zhong (Zhejiang University, P.R. China)

3. **Impact of Adaptive Carrier-Sensing Range on the Performance of Dense Wireless Networks**
Zhaoming Ding (Southeast University, P.R. China); Song Xing (California State University, Los Angeles, USA); Feng Yan, Zhengquan Li, and Lianfeng Shen (Southeast University, P.R. China)

4. **Performance Analysis for Decoding LT Codes over BIAWGN Channels with SNR Mismatch**
Lei Yuan and Jie Pan (Lanzhou University, P.R. China); Lin Yuan (Tianjin Optical Electrical Group Co. Ltd., P.R. China)

5. **Achievable Degrees of Freedom (DoF) Analysis in Multi-user Half-duplex Relay Interference Networks**
Xiaoying Zhang, Chao Wang, Ping Wang and Fuqiang Liu (Tongji University, P.R. China)

6. **Tradeoff Between Efficiency and Delay of Distributed Source Coding for Uplink Transmissions in Machine Type Communications**
Wen Wang, Jinkai Zhu, Sihai Zhang, and Wuyang Zhou (University of Science and Technology of China, P.R. China)

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**SPS-04: Array Signal Processing**

**Date:** Oct. 12, 2017  
**Time:** 16:00pm – 17:30pm  
**Room:** Revolution  
**Chair:** Xiaofei Zhang, Nanjing University of Aeronautics and Astronautics, P.R. China

1. **Sum and Difference Coarrays Based 2-D DOA Estimation with Co-Prime Parallel Arrays**
Junpeng Shi and Guoping Hu (Air Force Engineering University, P.R. China); Xiaofei Zhang and Pan Gong (Nanjing University of Aeronautics and Astronautics, P.R. China)
2. Calibration for Spaceborne Phased Array Antennas Without Interrupting Satellite Communications
Yujie Lin (Beijing Institute of Technology, P.R. China); Qiang Ma (China Academy of Space Technology, P.R. China); Shuai Wang, Xiangyuan Bu and Jianping An (Beijing Institute of Technology, P.R. China)

3. Two Dimensional Angle Estimation Using Separate Nested Acoustic Vector Sensor Array
Jianfeng Li and Feng Wang (Hohai University, P.R. China); Xiaofei Zhang (Nanjing University of Aeronautics and Astronautics, P.R. China)

4. Direction-of-Arrival Estimation for Coherently Distributed Sources via Symmetric Uniform Linear Array
Yan-Mei Ma, Ke Deng, and Zhi-Hao Ding (Xi'an Jiaotong University, P.R. China)

5. Three-Parallel Co-prime Array Configuration for Two-dimensional DOA Estimation
Pan Gong and Xiaofei Zhang (Nanjing University of Aeronautics and Astronautics, P.R. China); Junpeng Shi (Air Force Engineering University, P.R. China); Wang Zheng (Nanjing University of Aeronautics and Astronautics, P.R. China)

6. A Novel 2D DOA Estimation via Tensor Modeling for Cylindrical Conformal Array
Xiaoyu Lan and Yufeng Li (Shenyang Aerospace University, P.R. China)

WCS-07: OFDM and Multi-Carrier
Date: Oct. 12, 2017
Time: 16:00pm – 17:30pm
Room: Knowledge A
Chair: Gang Wu, University of Electronic Science and Technology of China, P.R. China

1. Information Rates of Unipolar OFDM Schemes in Gaussian Optical Intensity Channel
Jing Zhou and Wenyi Zhang (University of Science and Technology of China, P.R. China)

2. MMSE Precoding With Configurable Sizes for GFDM Systems
Hong Wang and Rongfang Song (Nanjing University of Posts and Telecommunications, P.R. China)

3. A Time-domain Calibration Scheme of Channel Reciprocity for TDD MIMO-OFDM System with IQ Imbalance
Yan Liang, Rongfang Song, Fei Li and Xueyun He (Nanjing University of Posts & Telecommunications, P.R. China); Hongbin Li (Stevens Institute of Technology, USA)

4. On the Practical Benefit of Hexagonal Multicarrier Faster-than-Nyquist Signaling
Siming Peng, Ailun Liu, Xinhai Tong, Xiaohu Liang and Ke Wang (PLA Army Engineering University, P.R. China)

5. Combination-Selection Algorithm for FBMC-IM System
Jian Zhang, Minjian Zhao, Jie Zhong and Tianhang Yu (Zhejiang University, P.R. China)

WCS-08: Detection and Estimation
Date: Oct. 12, 2017
Time: 16:00pm – 17:30pm
Room: Knowledge B
Chair: Caijun Zhong, Zhejiang University, P.R. China

1. Robust Beam Management Scheme Based on Simple 2-D DOA Estimation
Xiao Chen, Zaichen Zhang, Liang Wu, Jian Deng (Southeast University, P.R. China); Pen-Shun Lu (Sony China Research Lab, Taiwan); Chen Sun (SONY, P.R. China)

Zhaohui Yang, Ming Chen, Yijin Pan, Hao Xu, and Jianfeng Shi (Southeast University, P.R. China)

3. Relaxed-Bound K-Best Sphere Detection for Differential Unitary Space-Time Modulation
Yipeng (Beijing University of Science and Technology, P.R. China); Shuanghuang Han (Institute of Automation, Chinese Academy of Sciences, P.R. China); Jian Liu (University of Electronic Science and Technology of China, P.R. China); Yinghua Zhang (Beijing University of Science and Technology, P.R. China)

Yazhou Hu, Jing Hu, Tiecheng Song, Yueyue Zhang, and Zhiyu Cheng (Southeast University, P.R. China)

5. A Novel Robust Spatial Spectrum Sensing Algorithm
Ming Wu, Tiecheng Song, Zhejiang University, P.R. China)

Jian Zhang, Minjian Zhao, Jie Zhong, and Tianhang Yu (Zhejiang University, P.R. China)

WNS-04: Data Caching (I)
Date: Oct. 12, 2017
Time: 16:00pm – 17:30pm
Room: Zijin
Chair: Junhui Zhao, Beijing Jiaotong University, P.R. China

1. Joint Pushing and Caching Communication with 2-Dimensional Queue Model: Delay-cost Tradeoff (Invited Paper)
Meng Wang and Wei Chen (Tsinghua University, P.R. China); Anthony Ephremides (University of Maryland, USA)

2. Joint Caching and Sleep-Active Scheduling for Energy-Harvesting Based Small Cells
Dan Xu, Hao Jin, Chenglin Zhao, and Dong Liang (Beijing University of Posts and Telecommunications, P.R. China)

Chenxi Zhang, Pinyi Ren, and Qinghe Du (Xi’an Jiaotong University, P.R. China)
1. Mobility-Embedded and Social-Aware Distributed Caching for D2D Content Sharing
   Wei Zhang, Dan Wu, Xiaoming Chen; Junyue Qu, and Yueming Cai (PLA Army Engineering University, P.R. China)

   Shen Gao, Pei Li, Zhiwen Pan, Nan Liu, and Xiaohu You (Southeast University, P.R. China)

WNSS-04: Privacy and Content Protection

Date: Oct. 12, 2017
Time: 16:00pm – 17:30pm
Room: Alliance
Chair: Zhou Su, Shanghai University, P.R. China

1. Data Leakage Between C/S Communication: A Case Study on Android Music App
   Huanhuan Li, Qian Luo, Shubin Zhang, Haibin Zhang, and Jiajia Liu (Xidian University, P.R. China)

2. Scalable Protection Scheme for the H.264/SVC Video Streaming
   Ting Ma (Southwest Petroleum University, P.R. China)

AHSNS-05: Wireless Network Analysis

Date: Oct. 13, 2017
Time: 8:30am – 10:00am
Room: Unique
Chair: Shuai Han, Harbin Institute of Technology, P.R. China

1. Characteristics Analysis of DOPs for Dual-GNSS Constellations with Uncertain Clock Offset
   Man Yao, Gangming Lv, Quli Dong, and Tantan Zhao (Xi'an Jiaotong University, P.R. China)

2. The Fundamental Analysis of the Road Efficiency for Internet of Vehicles
   Kai Xiong, Supeng Leng (University of Electronic Science and Technology of China, P.R. China); Caixing Shao (Southwest University for Nationalities, P.R. China); Jie Tang (South China University of Technology, P.R. China)

3. Mobility Patterns Analysis of Beijing Residents based on Call Detail Records
   Lixing Shi and Wen Wang, Wei Cai (University of Science and Technology of China, P.R. China); Sihai Zhang, and Wuyang Zhou (University of Science and Technology of China, P.R. China)

4. Multi-hop Links Quality Analysis of 5G Enabled Vehicular Networks
   Shikuan Li, Zipeng Li, Ge Xiaohu and Jing Zhang (Huazhong University of Science and Technology, P.R. China); Minho Jo (Korea University, Korea)

5. Impact of Mobility on Energy Consumption in Mobile Ad hoc Networks
   Yongshan Ma and Qinghai Yang (Xidian University, P.R. China); Kyung Sup Kwak (Inha University, Korea)

October 13, 2017 Friday

   Abdurahman Alamer and Yang Deng (University of Ontario Institute of Technology, Canada); Xiaodong Lin (Wilfrid Laurier University, Canada)

SPS-05: Beamforming for MIMO Systems

Date: Oct. 13, 2017
Time: 8:30am – 10:00am
Room: Perseverance
Chair: Nan Zhao, Dalian University of Technology, P.R. China

1. Coordinated Beamforming Scheme for Heterogeneous Networks with Band-limited Backhaul Constraint
   Fasheng Zhou, Gaoyong Luo and Lisheng Fan (Guangzhou University, P.R. China); Jie Tang (South China University of Technology, P.R. China)

2. Robust Beamforming Designs for Downlink Cloud Radio Access Networks
   Dongliang Yan, Rui Wang, and Erwu Liu (Tongji University, P.R. China)

3. Hybrid Precoding for Millimeter Wave Massive MIMO with Analogy Combing
   Shaoqin Zhou, Wei Xu, Hua Zhang, and Xiaoju You (Southeast University, P.R. China)

4. Sub-array Based Hybrid Precoding Design for Downlink Millimeter-Wave Multi-User Massive MIMO Systems
   Yuehong Guo, Lixin Li, and Xiaocong Wen (Northwestern Polytechnical University, P.R. China); Wei Chen (Tsinghua University, P.R. China); Zhu Han (University of Houston, USA)
5. Nonsmooth Optimization for Joint Multicast Beamforming and User Scheduling in Massive MIMO Systems
   Saide Xu (Tsinghua University, P.R. China); Longfei Zhou (Peking University, P.R. China); Yuhan Dong (Tsinghua University, P.R. China)

   Wan Huan, Huiping Huang, Bin Liao, and Zhi Quan (Shenzhen University, P.R. China)

SPS-06: Signal Processing for MIMO and Radar Systems
Date: Oct. 13, 2017
Time: 8:30am – 10:00am
Room: Revolution
Chair: Xianfu Lei, Southwest Jiaotong University, P.R. China

1. An Improved Algorithm for Doppler Ambiguity Resolution Using Multiple Pulse Repetition Frequencies
   Yang Li, ChunMei Xu, Xin Yan, and Qi Liu (Southeast University, P.R. China)

2. Range and Velocity Estimation for OFDM-Based Radar-Radio Systems
   Xuanxuan Tian, Tingting Zhang, and Qinyu Zhang (Harbin Institute of Technology, Shenzhen, P.R. China); Zhaohui Song (East China Normal University, P.R. China)

3. Adaptive Filtering Based 3D Massive MIMO Sparse Channel Estimation
   Chen Wang, Guan Gui, and Fei Li (Nanjing University of Posts and Telecommunications, P.R. China)

4. A Symmetric Accumulated Cross-Correlation Method of Parameter Estimation Based on Fractional Fourier Transform for ISAR Motion Compensation
   Jiayin Xue, Xiao Han, and Qinyu Zhang (Harbin Institute of Technology, Shenzhen, P.R. China)

5. Spectral and Energy Efficiency of Cell-Free Massive MIMO Systems with Hardware Impairments
   Jiayi Zhang and Yinghua Wei (Beijing Jiaotong University, P.R. China); Emil Björnson (Linköping University, Sweden); Yu Han (Southeast University, P.R. China); Xu Li (Beijing Jiaotong University, P.R. China)

   Miao Zhang, Kanapathippillai Cumanan, and Alister G. Burr (University of York, UK)

WCS-09: NOMA (I)
Date: Oct. 13, 2017
Time: 8:30am – 10:00am
Room: Knowledge A
Chair: Rose Qingyang Hu, Utah State University, USA

1. Dynamic Power Splitting between Information and Power Transfer in Non-orthogonal Multiple Access (Invited Paper)
   Rose Qingyang Hu and Zekun Zhang (Utah State University, USA)

2. Uplink Simultaneous Wireless Information and Power Transfer with Non-Orthogonal Multiple Access
   Xiangmei Cheng and Yuan Liu (South China University of Technology, P.R. China)

3. Power Control, User Scheduling and Resource Allocation for Downlink NOMA Systems with Imperfect Channel State Information
   Ziyan Zhang, Qinqing Xia, Guanding Yu, and Rui Liu (Zhejiang University, P.R. China)

4. Energy-Efficient Power Allocation for Non-orthogonal Multiple Access with Imperfect Successive Interference Cancellation
   Hong Wang, Zhaoyang Zhang, and Xiaoming Chen (Zhejiang University, P.R. China)

5. Power Allocation Optimization for Uplink Non-Orthogonal Multiple Access Systems
   Huiling Zuo and Xiaofeng Tao (Beijing University of Posts and Telecommunications, P.R. China)

WCS-10: Massive MIMO (I)
Date: Oct. 13, 2017
Time: 8:30am – 10:00am
Room: Knowledge B
Chair: Xiumei Yang, Shanghai Research Center for Wireless Communications, P.R. China

1. DASTPC: Performance of Dual-polarized Antenna Based Space-Time-Polarization Precoding over Ricean-K Channel with Imperfect CSI (Invited Paper)
   Chenggui Lou, Qinyu Zhang, Bin Cao, and Tingting Zhang (Harbin Institute of Technology, Shenzhen, P.R. China)

2. On the Design of Massive Access
   Xiaoming Chen, Zhaoyang Zhang, Caijun Zhong, and Rundong Jia (Zhejiang University, P.R. China)

   Nutian Zhang, Chao Fei, Zhenbing Zhang, Jianhao Hu, and Jienan Chen (University of Electronic and Technology of China, P.R. China)

4. Measurements of Massive MIMO Channel in Real Environment with 8-Antenna Handset
   Jun She, Chen Gao, Yu Yu, Peng-fei Cui, and Wenjun Lu (Nanjing University of Posts and Telecommunications, P.R. China); Shi Jin (Southeast University, P.R. China); Hong-Bo Zhu (Nanjing University of Posts and Telecommunications, P.R. China)

5. A Novel Beamforming to Improve Secrecy Rate in a DAI Based Untrusted Relay Network
   Tamer Mekkawy, Rugui Yao, Fei Xu, Yanan Lu, and Ling Wang (Northwestern Polytechnical University, P.R. China)

WNS-05: Data Caching (II)
Date: Oct. 13, 2017
Time: 8:30am – 10:00am
Room: Zijin
Chair: Philippe Martins, TELECOM ParisTech, France
1. Incentive Cooperative Caching for Localized Information-Centric Networks
   Junjie Xu, Kaiping Xue, and Chengbao Cao (University of Science and Technology of China, P.R. China); Hao Yue (San Francisco State University, USA)

2. Adverse Selection Based Incentive Mechanism for Cooperative Caching in Distributed Storage Systems
   Ruiqu Ma, Li Wang, and Yinan Ding (Beijing University of Posts and Telecommunications, P.R. China); Zhu Han (University of Houston, USA); Bingli Jiao (Peking University, P.R. China)

3. Clustered Small Base Stations for Cache-Enabled Wireless Networks
   Yan Niu, Shen Gao, Nan Liu, Zhiwen Pan, and Xiaohu You (Southeast University, P.R. China)

4. Joint Computation Offloading and Data Caching with Delay Optimization in Mobile-Edge Computing System
   Haixia Wang, Rongpeng Li, Lu Fan, and Honggang Zhang (Zhejiang University, P.R. China)

5. A Learning-Based Approach for Proactive Caching in Wireless Communication Networks
   Yuyang Wang, Yun Chen, Haibo Dai, Yongming Huang, and Luxi Yang (Southeast University, P.R. China)

WNSS-05: Wireless Network Security

Date: Oct. 13, 2017
Time: 8:30am – 10:00am
Room: U Lake
Chair: Huifang Chen, Zhejiang University, P.R. China

1. Steady-State Performance Analysis of Consensus-based Distributed Detection under Sensing Data Falsification Attack
   Xiaoyan Zheng, Lei Xie and Huifang Chen (Zhejiang University, P.R. China)

2. A Novel Method against the Firewall Bypass Threat in OpenFlow Networks
   Yicong Zhang and Jie Li (University of Tsukuba, Japan); Lin Chen (The University of Paris-Sud, France); Yusheng Ji (National Institute of Informatics, Japan); Feilong Tang (Shanghai Jiao Tong University, P.R. China)

3. An Intelligent Honeyey Architecture Based on Software Defined Security
   Xiangjun Meng, Zhiheng Zhao, Rongpeng Li, and Honggang Zhang (Zhejiang University, P.R. China)

4. Three Lower Bounds on Secrecy Capacity for Indoor Visible Light Communications
   Cheng Liu (Southeast University, P.R. China); Jinfan Wang (Nanjing University of Posts and Telecommunications, P.R. China); Jun-Bo Wang, Jian-Xia Zhu and Ming Chen (Southeast University, P.R. China)

5. Self-Organizing Map-Based Scheme Against Probabilistic SSDF Attack in Cognitive Radio Networks
   Zhiwu Cheng, Tiecheng Song, Jing Zhang, Jing Hu, Yazhou Hu, Lianfeng Shen, Xi Li and Jun Wu (Southeast University, P.R. China)

6. Secure Content Sharing Protocol for D2D Users Based on Profile Matching in Social Networks
   Lei Wang, Zhonglei Li and Mingkai Chen (Nanjing University of Posts and Telecommunications, P.R. China); Aiqing Zhang (Anhui Normal University, P.R. China); Jingwu Cui and Baoyu Zheng (Nanjing University of Posts and Telecommunications, P.R. China)

WCS-11: NOMA (II)

Date: Oct. 13, 2017
Time: 10:30am – 12:00pm
Room: Unique
Chair: Lin Bai, Beihang University, P.R. China

1. Researches on Non-Orthogonal Multiple Access in Multiple-Antenna 5G Relaying Networks
   Xiaoopeng Yan, Jiahua Ge, and Yangyang Zhang (Xidian University, P.R. China)

2. Parallel-Implemented Message Passing Algorithm for SCMA Decoder based on GPGPU
   Yunfeng Qi, Gang Wu and Su Hu (University of Electronic Science and Technology of China, P.R. China); Gao Yuan (Tsinghua University, P.R. China)

3. ACK Feedback based UE-to-CTU Mapping Rule for SCMA Uplink Grant-Free Transmission
   Jiali Shen, Wen Chen, Fan Wei, and Yongpeng Wu (Shanghai Jiao Tong University, P.R. China)

   Ruimin Wan, Lina Zhu, Tian Li, and Lin Bai (Beihang University, P.R. China)

5. Joint Detection and Decoding of Polar-Coded SCMA Systems
   Shusen Jing, Chao Yang, Junmei Yang, Xiaohu You, and Chuan Zhang (Southeast University, P.R. China)

SPS-07: Resource Allocation for Communication Systems

Date: Oct. 13, 2017
Time: 10:30am – 12:00pm
Room: Perseverance
Chair: Lei Wang, Nanjing University of Posts and Telecommunications, P.R. China

1. Efficient and Fair Pilot Allocation for Multi-cell Massive MIMO Systems
   Jianhua Liu (Shandong University, P.R. China); Yueheng Li (University of Bremen, Germany); Haixia Zhang and Shuaishuai Guo (Shandong University, P.R. China)

2. Sidelobe Interference Reduced Scheduling Algorithm in Millimeter Wave Networks
   Lei Wang, Siran Liu, Mingkai Chen, Jingwu Cui and Baoyu Zheng (Nanjing University of Posts and Telecommunications, P.R. China)

3. Power Allocation for Multicell Mixed-ADC Massive MIMO Systems in Rician Fading Channels
   Mengjiao Zhang (Southeast University, P.R. China); Weiqiang Tan (Guangzhou University, P.R. China); Junhui Gao, Xi Yang and Shi Jin (Southeast University, P.R. China)

   Mengjiao Zhang (Southeast University, P.R. China); Weiqiang Tan (Guangzhou University, P.R. China); Junhui Gao, Xi Yang and Shi Jin (Southeast University, P.R. China)
   Pengfei Ge, Xiao Liang, Jiaheng Wang and Chunming Zhao (Southeast University, P.R. China)

6. Maximum Uplink SNR User Association in MISO HetNets with Decoupled Access
   Ran Li, Kai Luo and Tao Jiang (Huazhong University of Science and Technology, P.R. China)

SPS-08: Interference Suppression and Multiplexing

Date: Oct. 13, 2017
Time: 10:30am – 12:00pm
Room: Revolution
Chair: TBD

1. A Novel Windowing Scheme to Suppress Spectral Sidelobes for OFDMA Systems
   Lei Wang (PLA University of Science and Technology, P.R. China)

2. A Residual Interference Mitigation Technique for Frequency-Domain Interference Suppression in DSSS Communication Systems
   Zonghan Wei and Ran Tao (Beijing Institute of Technology, P.R. China)

3. Self-Correction Phase Noise Compensation Based on Decision Feedback in SC-FDE Satellite Systems
   Xu Chen, Cheng Wang, Gaofeng Cui, Weidong Wang, and Xiuhua Li (Beijing University of Posts and Telecommunications, P.R. China)

4. Compressed Sensing for Clipping Noise Cancellation in DCO-OFDM Systems Based on Observation Interference Mitigation
   Pu Miao (Qingdao University, P.R. China); Chenhao Qi and Lenan Wu (Southeast University, P.R. China); Bingcheng Zhu (Nanjing University of Posts and Telecommunications, P.R. China); Kangjian Chen (Southeast University, P.R. China)

5. Angle Domain Sparse Code Multiplexing for the Massive MIMO Networks
   Weidong Shao, Shun Zhang, Hongyan Li and Jianpeng Ma (Xidian University, P.R. China)

6. Performance Analysis of Drone Small Cells under Inter-cell Interference
   Jiejie Xie, Hai Wang, Aijing Li (PLA Amy Engineering University, P.R. China)

WCS-12: Massive MIMO (II)

Date: Oct. 13, 2017
Time: 10:30am – 12:00pm
Room: Knowledge A
Chair: Zhongfeng Wang, University of Electronic Science and Technology of China, P.R. China

1. Beam Domain PAPR Reduction for Massive MIMO Downlink
   Luyao Ni and Shi Jin (Southeast University, P.R. China); Feifei Gao (Tsinghua University, P.R. China); Hai Lin (Osaka Prefecture University, Japan)

2. Downlink Performance of Hybrid Precoding in Massive MIMO Systems Subject to Phase Noise
   Yu Zhang, Dongming Wang Xinjiang, and Xiaohu You (Southeast University, P.R. China)

3. Energy-Efficient Hybrid Precoding for Broadband Millimeter Wave Communication Systems
   Fusheng Zhu, Shiwen He, Rui Li, Yongming Huang, and Xiaohe You (Southeast University, P.R. China)

4. Antenna Selection in Massive MIMO Systems Utilizing the Submodular Function
   Jie Zhang, Jiangtao Wang, and Yongchao Wang (Xidian University, P.R. China)

5. Joint User Scheduling and Hybrid Precoding Design for MIMO C-RAN
   Qi Hou, Shiwen He, Yongming Huang, Haiming Wang and Luxi Yang (Southeast University, P.R. China)

6. Low-complexity Hybrid Precoding for Energy-efficient mmWave Transmission
   Xiumei Yang, Mengyin Zhang, Huaxia Chen, Ming-Tuo Zhou and Yang Yang (Shanghai Research Center for Wireless Communications, P.R. China)
1. A Robust Backup Routing Protocol for Neighbor Area Network in the Smart Grid
Zhuoran Ma, Xinyan Zhou, Ouyang Xuan, Xiaoyu Ji and Wenyan Xu (Zhejiang University, P.R. China)

2. A User-centric Clustering Method for Mobility Management in Ultra-dense Networks
Bo Hu, Yingying Wang, Chuanan Wang and Lei Wang (Beijing University of Posts and Telecommunications, P.R. China)

Jie Zhao, Wenjun Xu, Xue Li and Jiaru Lin (Beijing University of Posts and Telecommunications, P.R. China)

4. Signal Strength Assistant Grouping for Lower Hidden Node Collision Probability in 802.11ah
Laipeng Zhang (Shanghai Jiao Tong University, P.R. China); Hua Li (Chongqing Qianwei Technologies Group Co., Ltd., P.R. China); Zhe Guo (Shanghai Research Institute of Microwave Technology, P.R. China); Lianghui Ding, Feng Yang, Liang Qian (Shanghai Jiao Tong University, P.R. China)

5. Virtual Network Forwarding Graph Embedding Based on Tabu Search
Wenzhe Wang, Peilin Hong, Defang Lee, Jianping Pei and Lei Bo (University of Science and Technology of China, P.R. China)

6. Short-Term Traffic Flow Prediction with Conv-LSTM
Yipeng Liu, Haifeng Zheng, Xinxin Feng and Zhonghui Chen (Fuzhou University, P.R. China)

1. Performance Analysis of Non-regenerative Relay Assisted NOMA System
Di Zhang (North China Electric Power University, P.R. China); Yuanwei Liu (King's College London, UK); Zhiguo Ding (Lancaster University, UK); Zhenyu Zhou (North China Electric Power University); Arumugam Nallanathan (Queen Mary University of London, UK)

2. Resource Allocation for Downlink Joint Space-Time and Power Domain Non-Orthogonal Multiple Access
Hong Wang, Zhaoyang Zhang and Xiaoming Chen (Zhejiang University, P.R. China)

3. A Low-Complexity Non-Orthogonal Multiple Access System Based on Rate Splitting
Ye Zhu, Zhaoyang Zhang and Xianbin Wang (Zhejiang University, P.R. China); Liang Xuesong (Nanjing University of Posts and Telecommunications, P.R. China)

4. An Minorization-Maximization based Hybrid Precoding in NOMA-mMIMO
Yuyan Zhao (Nanjing University of Posts and Telecommunications, P.R. China); Wei Xu and Shi Jin (Southeast University, P.R. China)

5. Effect of Clipping on the Achievable Rate of Non-Orthogonal Multiple Access with DCO-OFDM
Weiwen Chu, Jian Dang, Zaichen Zhang and Liang Wu (Southeast University, P.R. China)

1. 60 GHz Channel Measurements and Ray Tracing Modeling in an Indoor Environment
Andong Zhou, Jie Huang, Jian Sun (Shandong University, P.R. China); Zhu Qiuming (Nanjing University of Aeronautics and Astronautics, P.R. China); Chengxiang Wang (Heriot-Watt University, UK); Yang Yang (Shanghai Research Center for Wireless Communication, P.R. China)

2. A 6-bit Active Phase Shifter for Ku-Band Phased Arrays
Yan Yao, Zhiqun Li, Guoxiao Cheng and Lei Luo (Southeast University, P.R. China)

3. System Performance Evaluation for Millimeter Wave Wireless Communication
Wenzheng Wang and Shiwen He (Southeast University, P.R. China); Yongpeng Wu (Shanghai Jiao Tong University, P.R. China); Haiming Wang, Yongming Huang and Luxi Yang (Southeast University, P.R. China)
1. Modeling the energy consumption of programs: thermal aspects and energy/ frequency convexity rule (Invited Paper)
   Karel De Vogeleer (Hypervirtu, Belgium), Kameswar Rao Vaddina, Florian Brandner (LTCI - TELECOM ParisTech - University of Paris-Saclay, France), Pierre Jouvelot (MINES ParisTech, PSL Research University, France), Gerard Memmi (LTCI - TELECOM ParisTech - University of Paris-Saclay, France)

2. Exploiting NOMA into Socially Enabled Computation Offloading
   Yutong Ai and Li Wang (Beijing University of Posts and Telecommunications, P.R. China); Bingli Jiao (Peking University, P.R. China); Kwang-Cheng Chen (University of South Florida, USA)

3. Capacity of Wireless Powered Communication Systems over Rician Fading Channels
   Feiran Zhao (Zhejiang University, P.R. China); Hai Lin (Osaka Prefecture University, Japan); Caijun Zhong (Zhejiang University, P.R. China); Zoran Hadzi-Velkov (Ss. Cyril and Methodius University in Skopje, Macedonia, the former Yugoslav Republic of); George K. Karagiannidis (Aristotle University of Thessaloniki, Greece); Zhaoyang Zhang (Zhejiang University, P.R. China)

4. Density Evolution Analysis of LDPC-coded SCMA Systems
   Yanming Hao, Kexin Xiao, Zhiyong Chen and Bin Xia (Shanghai Jiao Tong University, P.R. China)

5. A Construction of (5,3) MDS Codes with Optimal Repair Capability for Distributed Storage Systems
   Sheng Guan, Haibin Kan and Xin Wang (Fudan University, P.R. China)

   Kun Dong (University of Science and Technology of China, P.R. China); Zilong Zhang (The 28th Research Institute of China Electronics Technology Group Corporation, P.R. China); Xiaodong Xu (University of Science and Technology of China, P.R. China)

SPS-10: Estimation and Detection (I)

Date: Oct. 13, 2017
Time: 14:00 pm – 15:30 pm
Room: Revolution

1. Underwater Acoustic Channel Estimation via Fast Bayesian Matching Pursuit
   Huajian Chen and Chenhao Qi (Southeast University, P.R. China)

2. Training Sequence Design for Channel Estimation and IQ Imbalance Compensation in GFDM Systems
   Nan Tan, Shiwen He, Haoming Wang, Yongming Huang and Luxi Yang (Southeast University, P.R. China)

3. Regularized Equalization for OFDM Systems with BEM-Based Channel Estimation
   Wei Han, Jun Tong, Qinghua Guo, Jiangtao Xi and Yanguang Yu (University of Wollongong, Australia)

4. A Signal Detection Algorithm Based on Chebyshev Accelerated Symmetrical Successive Over-Relaxation Iteration for Massive MIMO Systems
   Xiaoxiang Liu and Jing Zhang (Nanjing University of Posts and Telecommunications, P.R. China)

5. Residual Correlation Matrix Detection Based Blind Sub-Nyquist Spectrum Sensing for Cognitive Radio Networks
   Peihan Qi, Zan Li, Wenchi Cheng, Jiangbo Si (Xi’dian, P.R. China); Qihui Wu (Nanjing University of Aeronautics and Astronautics, P.R. China)

WCS-16: Massive MIMO-Channel Estimation

Date: Oct. 13, 2017
Time: 14:00 pm – 15:30 pm
Room: Knowledge A

Chair: Feng Shu, Nanjing University of Science and Technology, P.R. China

1. Pilot Reuse with a Large Number of Antennas: Performance Analysis and Pilot Contamination Reduction
   Junhui Zhao and Shanjin Ni (Beijing Jiaotong University, P.R. China); Yi Gong (South University of Science and Technology of China, P.R. China); Feifei Gao (Tsinghua University, P.R. China)

2. Massive MIMO Uplink Transmission with Pilot Extension and System-Level Analysis
   Yang Li (Xi’an Jiaotong University, P.R. China); Rui Wang (The South University of Science and Technology of China, P.R. China); Haisheng Tan (University of Science and Technology of China, P.R. China); Yifan Chen (The University of Waikato, New Zealand); Qingfeng Zhang (South University of Science and Technology of China, P.R. China)

3. Low-Complexity Channel Estimation Based on Weighted Kaptetyn Series Expansion for Massive MIMO Systems
   Zhengquan Li, Bing Wang, Yaoyao Sun and Feng Yan (Southeast University, P.R. China); Song Xing (California State University, Los Angeles, USA); Lianfeng Shen (Southeast University, P.R. China)

4. Millimeter-Wave Channel Estimation with Interference Cancellation and DOA Estimation in Hybrid Massive MIMO Systems
   Welhan Liu (Shanghai Jiao Tong University, P.R. China); Yang Li (Wuhan Maritime Communication Research Institute, P.R. China); Feng Yang, Lianghui Ding and Cheng Zhi (Shanghai Jiao Tong University, P.R. China)

5. Low Complexity Signal Detector Based on SSOR Iteration for Large-Scale MIMO Systems
   Yaoyao Sun, Zhengquan Li, Chi Zhang, Rui Zhang, Feng Yan and Lianfeng Shen (Southeast University, P.R. China)

6. RaptorQ Code based Concurrent Transmissions in Dual Connectivity LTE Network
   Jiaying Li and Cunqing Hua (Shanghai Jiao Tong University, P.R. China)
WCS-17: Massive MIMO-Detection

Date: Oct. 13, 2017
Time: 14:00pm – 15:30pm
Room: Zijin
Chair: Zhongfeng Wang, Nanjing University, P.R. China

1. Reduced Complexity Message Passing Detection Algorithm in Large-Scale MIMO Systems
   Haochuan Zhu, Jun Lin and Zhongfeng Wang (Nanjing University, P.R. China)

2. Iterative SOR Detection and Decoding for LDPC-Coded Massive MIMO Systems
   Anlan Yu and Shusen Jing (Southeast University, P.R. China); Yeong-Luh Ueng (Tsing Hua University, Taiwan); Xiaohu You and Chuan Zhang (Southeast University, P.R. China)

3. On Uplink Performance of Massive MIMO Relaying with Hybrid Multiuser Detection
   Yucheng Wang, Jindan Xu, Hong Shen and Wei Xu (Southeast University, P.R. China)

4. Belief Propagation Detection Based on Max-Sum Algorithm for Massive MIMO Systems
   Yaping Zhang, Lulu Ge, Xiaohu You and Chuan Zhang (Southeast University, P.R. China)

5. Low-complexity Detection Algorithms Based on Matrix Partition for Massive MIMO
   Haijian Wu and Jun Lin (Nanjing University, P.R. China); Chuan Zhang (Southeast University, P.R. China); Zhongfeng Wang (Nanjing University, P.R. China)

6. D Hybrid Eavesdropping Approach Against Energy-Ratio-Based Detection
   Menghan Wang, Hao Wei, and Dongming Wang (Southeast University, P.R. China); Xiaoyun Hou (Nanjing University of Posts and Telecommunications, P.R. China)

WNS-07: Scheduling and QoS

Date: Oct. 13, 2017
Time: 14:00pm – 15:30pm
Room: Zijin
Chair: Feng Yan, Southeast University, P.R. China

   Kunlun Wang, Yang Yang, and Ming-Tuo Zhou (Shanghai Research Center for Wireless Communications, P.R. China); Wen Chen (Shanghai Jiao Tong University, P.R. China); Guoqiang Mao (The University of Technology Sydney Data 61, Australia)

2. Group-DCI Based Scheduling Scheme for Ultra-Reliable and Low Latency Communications
   Ting Liu, Man Dai and Fei Zesong (Beijing Institute of Technology, P.R. China); Shuqiang Xia, Xianghui Han, and Jing Shi (ZTE Corporation, P.R. China)

   Yuxi Qiang, Guangyue Lu, Boyang Liu, and Yuxin Li (Xi’an University of Posts and Telecommunications, P.R. China)

4. Elastic Local Breakout Strategy and Implementation for Delay-Sensitive Packets with Local Significance
   Yangkang Li, Zhiyuan Jiang, An Xu, Sheng Zhou, and Zhisheng Niu (Tsinghua University, P.R. China)

5. IPTV User QoE Prediction Based on the LSTM Network
   Jiali Mao, Ruochen Huang, Xin Wei, and Qixia Bao (Nanjing University of Posts and Telecommunications, P.R. China); Zhenjiang Dong (Cloud &amp; IT Institute, ZTE Corporation, P.R. China); Yi Qian (University of Nebraska - Lincoln, USA)

6. A Resource Scheduling Scheme Based on Utility Function in CoMP Environment
   Xing Xu, Zhifeng Zhao, Rongpeng Li, and Honggang Zhang (Zhejiang University, P.R. China)

WCS-18: Visible Light Communication

Date: Oct. 13, 2017
Time: 14:00pm – 15:30pm
Room: U Lake
Chair: Liang Wu, Southeast University, P.R. China

1. Optical Spatial Modulation Based Visible Light Communications with an Arbitrary Number of Transmitters
   Jian-Xia Zhu (Southeast University, P.R. China); Jin-Yuan Wang (Nanjing University of Posts and Telecommunications, P.R. China); Nan Li, Jun-Bo Wang and Ming Chen (Southeast University, P.R. China)

2. On the BER Performance of Relay-Aided Free-Space Optical Communications in the Presence of Input-Dependent Noise
   Jin-Yuan Wang (Nanjing University of Posts and Telecommunications, P.R. China); Jun-Bo Wang, Jian-Xia Zhu, Cheng Liu and Ming Chen (Southeast University, P.R. China)

3. Design of Polar Codes for Multicolor Visible Light Communication Systems
   Ming Jiang, Quyu Zhu, Chunming Zhao (Southeast University, P.R. China)

4. Optical Spatial Modulation with DHT-Based OFDM in Visible Light Communication Systems
   Yali Cao, Xiaotian Zhou, Jian Sun (Shandong University, P.R. China); Wensheng Zhang (Shandong University, P.R. China); Chengxiang Wang (Heriot-Watt University, UK)

5. Outage Performance Analysis for Outdoor Vehicular Visible Light Communications
   Sheng-Hong Lin (Nanjing Institute of Mechatronic Technology, P.R. China); Jin-Yuan Wang (Nanjing University of Posts and Telecommunications, P.R. China); Xu Bao and Yun Li (Huaiyin Institute of Technology, P.R. China)

6. An advanced polar coding scheme for Visible Light Communication system
   Chunmei Yao, Jian Song, Wensheng Zhang and Xiaotian Zhou (Shandong University, P.R. China)

WCS-19: Cooperative MIMO and DAS

Date: Oct. 13, 2017
Time: 16:00pm – 17:30pm
Room: Unique
Chair: Dongming Wang, Southeast University, P.R. China
1. Sparse Beamforming Based Energy Efficiency Optimization for Distributed Antenna Systems
   Jun Xu, Pengcheng Zhu, Jiamin Li, Xiaohu You (Southeast University, P.R. China)

2. Interference Channel State Based User-Centric Cell Clustering for Uplink Multicell Cooperation
   Zhe Zhang, Ning Wang, Jiankang Zhang, Jin Jin and Xiaomin Mu (Zhengzhou University, P.R. China)

3. Downlink Ergodic Rate Analysis of DAS with Linear Beamforming under Pilot Contamination
   Lingling Zhang, Pengcheng, Jiamin Li, and Juan Cao (Southeast University, P.R. China)

4. Sparse Beamforming for Interlaced Clustering in Distributed Antenna Systems
   Xinjiang Xia, Yu Zhang, Jiamin, Pengcheng Zhu, Dongming Wang, and Xiaohu You (Southeast University, P.R. China)

5. Coastal Communications Based on Cellular Networks with Distributed Antennas
   Xu Yanli, Feng Liu and Shengming Jiang (Shanghai Maritime University, P.R. China); Xujie Li (Hohai University, P.R. China)

   Qiuyuan Tang, Lina Zhu, Tian Li, and Lin Bai (Beihang University, P.R. China)

SPS-11: Estimation and Detection (II)

   Zhaohui Yang, Ming Chen, Yinlu Wang and Yijin Pan (Southeast University, P.R. China)

2. Detection with Compressive Measurements Corrupted by Sparse Errors
   Wenbo Xu and Zhuhua Yan (Beijing University of Posts and Telecommunications, P.R. China); Yun Tian (People's Public Security University of China, P.R. China); Yupeng Cui and Jiuru Lin (Beijing University of Posts and Telecommunications, P.R. China)

3. A Joint Algorithm of Parameters Estimation for Frequency-Hopping Signal Based on Sparse Recovery
   Xiaolin Zhang, Xiaofang Hu and Xue Dong (Harbin Engineering University, P.R. China)

4. FompNet: Compressive Sensing Reconstruction with Deep Learning over Wireless Fading Channels
   Lei Bo, Hancheng Lu, Yujiao Lu, and Jianwen Meng and Wenzehe Wang (University of Science and Technology of China, P.R. China)

5. Fast Recovery of Non-Negative Sparse Signals Under Heterogeneous Noise
   Lei Hu, Zemin Wu, Lei Zhang and Chang Tian (PLA Army Engineering University, P.R. China)

   Zhikun Liao, Dawei Lu, Jiemin Hu and Jun Zhang (National University of Defense Technology, P.R. China)

SPS-12: Emerging Signal Processing and Its applications

1. A Compilation Method for Zero Overhead Loop in DSPs with VLIW
   Rui Chang, Jun Wu, and Haoqi Ren (Tongji University, P.R. China)

2. Reversible Data Hiding Based on Directional Prediction and Multiple Histograms Modification
   Song Chang and Yifeng Zhang (Southeast University, P.R. China); Guojun Lu (Monash University, Australia)

3. A Synthesis Flow for Fast Convolution Unit Based on Molecular Reactions
   Yuchen Zhuang, Lulu Ge (Southeast University, P.R. China); Wei Wei and Jing Zhao (Nanjing University, P.R. China); Xiaohu You and Chuan Zhang (Southeast University, P.R. China)

4. Synthesizing Markov Chain with Reversible Unimolecular Reactions
   ZiYuan Shen and Lulu Ge (Southeast University, P.R. China); Wei Wei and Jing Zhao (Nanjing University, P.R. China); Xiaohu You and Chuan Zhang (Southeast University, P.R. China)

5. Efficient Fast Convolution Architecture Based on Stochastic Computing
   Runing Xu (Southeast University, P.R. China); Bo Yuan (City University of New York, USA); Xiaohu You and Chuan Zhang (Southeast University, P.R. China)

6. Convergence Analysis of a Correntropy Induced Metric Constrained Mixture Error Criterion Algorithm
   Yanyan Wang and Yingsong Li (Harbin Engineering University, P.R. China); Felix Albu (Valahia University of Targoviste, Romania); Rui Yang (Huazhong Agricultural University, P.R. China)

WCS-20: HetNets

1. On the Local Delay and Energy Efficiency of HetNets under Poisson Cluster Processes
   Xiaojie Dong (Harbin Institute of Technology, Shenzhen, P.R. China); Fu-Chun Zheng (University of York, UK); Xu Zhu (University of Liverpool, UK)

2. Utility Function Optimization based Joint User Association and Content Placement in Heterogeneous Networks
   Hong Chen, Qianbin Chen, and Rong Chai (Chongqing University of Posts and Telecommunications, P.R. China); Dongmei Zhao (McMaster University, Canada)
3. Analysis of Non-Best User Association Scheme in K-tier Heterogeneous Networks
Meng Zhou, Xiangdong Jia, Mangang Xie, and Weijie Tan (Northwestern Polytechnical University, P.R. China); Weiqiang Tan (Guangzhou University, P.R. China)

4. Network-Sensitive Adaptive LAA LBT Strategy for Downlink LAA-WiFi coexistence
Wei Wang, Pingping Xu, and Yuan Zhang (Southeast University, P.R. China); Hongyun Chu (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, P.R. China)

5. Performance Analysis of LBT Cat4 Based Downlink LAA-WiFi Coexistence in Unlicensed Spectrum
Wei Wang, Pingping Xu, and Yuan Zhang (Southeast University, P.R. China); Hongyun Chu (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, P.R. China)

6. The Cell Zooming Algorithm for Energy Efficiency Optimization in Heterogeneous Cellular Networks
Zhen Zhang, Fangfang Liu and Zhimin Zeng (Beijing University of Posts and Telecommunications, P.R. China)

WCS-21: System and Network Design
Date: Oct. 13, 2017
Time: 16:00pm – 17:30pm
Room: Knowledge B
Chair: Jiaheng Wang, Southeast University, P.R. China

1. Fill the Gap: A Bidirectional Message Ferry System for Wireless Devices
Yongan Guo (Nanjing University of Posts and Telecommunications, P.R. China); Jie Deng (Queen Mary University of London, UK)

2. Design and Implementation of a Novel 100G Optical Interface Protocol Converter
Kaixiong Zhou, Xin Huang and Chaoxiang Shi (Chongqing University of Posts and Telecommunications, P.R. China); Jianxin Chang and Meng Gao (CNMP Networks, INC Beijing, P.R. China)

3. Optimal Design of 3D MIMO SWIPT Systems with Tilt Adaptation
Lixing Fan (Southeast University, P.R. China); Honghui Wang (Northwestern Polytechnical University, P.R. China); Yongming Huang and Luxi Yang (Southeast University, P.R. China)

Mian Zeng, Kaixiong Zhou, Chen Gong, Shun Lou, Xianqing Jin, and Zhengyuan Xu (University of Science and Technology of China, P.R. China)

5. Pseudo-Analog Wireless Stereo Video Transmission in Hardware Acceleration
Yao Jiang, Pengfei Xia, Jun Wu, Shi Chen, and Baoye Zhang (Tongji University, P.R. China)

6. Neural Networks for Demodulating the Output Signals of Nonlinear Systems with Memory
Xiaomin Li, Chunming Zhao, and Ming Jiang (Southeast University, P.R. China)

WNS-08: Software Defined Networks
Date: Oct. 13, 2017
Time: 16:00pm – 17:30pm
Room: Jijin
Chair: Xiaohu Ge, Huazhong University of Science and Technology, P.R. China

1. State Reduction in Wireless Software Defined Network with LSP Multiplexing
Liaoru Huo, Qingguo Shen, Feng Zhou and Xiaoyu Cui (PLA Army Engineering University, P.R. China); Wenjuan Shao (Nanjing University of Science and Technology, P.R. China)

2. Control Plane Delay Minimization based SDN Controller Placement Scheme
Lei Zhu, Rong Chai and Qianbin Chen (Chongqing University of Posts and Telecommunications, P.R. China)

3. Dynamic Switch Migration Algorithm with Q-learning Towards Scalable SDN Control Plane
Min Zhu, Hua Qu and Jihong Zhao (Xi’an Jiaotong University, P.R. China)

4. Coflow-Aware Dynamic Routing for SDN-based Data Center Networks
Yifan Li and Jie Li (University of Tsukuba, Japan); Yu Gu (Hefei University of Technology, P.R. China)

Feiying Meng, Rong Chai and Chenlu Zhang (Chongqing University of Posts and Telecommunications, P.R. China)

6. VNF Deployment and Routing for NFV-enabled Multicast: A Steiner Tree-based Approach
Yulun Cheng and Longxiang Yang (Nanjing University of Posts and Telecommunications, P.R. China)

WCS-22: System Performance Analysis
Date: Oct. 13, 2017
Time: 16:00pm – 17:30pm
Room: U Lake
Chair: Kanglian Zhao, Nanjing University, P.R. China

1. A General Analytical Approach for Outage Analysis of HARQ-IR over Correlated Fading Channels
Zheng Shi and Shaodan Ma (University of Macau, P.R. China); Guanghua Yang (Jinan University, P.R. China); Ting Wang Tam (University of Macau, P.R. China); Xiaoping Yang (Jinan University, P.R. China)

2. Dual-Polarized Spatial Modulation Performance Analysis over Nakagami-m Fading Channels
Zhilan Lyu, Kanglian Zhao, Wenfeng Li, and Haiyu Zhou (Nanjing University, P.R. China)

3. Channel Capacity and Lower Bound for Ambient Backscatter Communication Systems
Wenjing Zhao and Gongpu Wang (Beijing Jiaotong University, P.R. China); Feifei Gao (Tsinghua University, P.R. China); Yulong Zou (Nanjing University of Posts and Telecommunications, P.R. China)
4. **Downlink Spectral Efficiency of Multi-User Distributed Antenna Systems Under a Stochastic Geometry Model**  
Baolai Cai, Chentao Yue, Jiamin Li, and Pengcheng Zhu  
(Southeast University, P.R. China)

5. **Achievable Rate of DCO-FBMC with Low-Resolution ADCs for Optical Wireless Communication**  
Mengting Wu, Jian Dang, Zaichen Zhang, and Liang Wu  
(Southeast University, P.R. China)

6. **Correlation Analysis and Adaptive Carrier Sensing Adjustment in Dense Random Wireless Networks**  
Zhaoming Ding (Southeast University, P.R. China); Song Xing (California State University, Los Angeles, USA); Feng Yan (Southeast University, P.R. China); Shuguang Deng (Hunan City University, P.R. China); Lianfeng Shen (Southeast University, P.R. China)