**Program in Full of Chinacom 2014**

**Thursday, August 14, 2014**

**Room V401 Afternoon 14:00 PM - 15:30 PM**

**Session 1 Sensor Networks Technologies (Session Chair: Nei Kato)**

**A Granulometric Size Distribution based Intrusion Detection Method for WSN**

Yanwen Wang, Xiaoling Wu (Guangzhou Institute of Advanced Technology, China & Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China), Hainan Chen (Guangdong University of Technology, China & (Guangzhou Institute of Advanced Technology, China), Guangcong Liu (Guangdong University of Technology, China)

**A Novel Multiple Attributes Query Processing Mechanism in WSN**

Zhangbing Zhou (China University of Geosciences (Beijing), China & TELECOM SudParis, France), Deng Zhao, Zhenhua Wang, Beibei Yao (China University of Geosciences (Beijing), China)

**A Two-tier Routing Protocol for Cluster-based Underwater Heterogeneous Sensor Networks**

Di Wu, Guangjie Han, Gang Hu, Jinfang Jiang (Hohai University, China)

**Data Compression of Wireless Sensor Network Employing Kalman Filter and QC-LDPC Codes**

Jian Zheng, Hongxia Bie, Dijia Xu, Chunyang Lei, Xuekun Zhang (Beijing University of Posts and Telecommunication, China)

**A High-Precision Collaboration Positioning Algorithm With Indoor Environment**

Jun-Hui Zhao, Xiaocen Jin (Beijing Jiaotong University, China), Yi Gong (South University of Science and Technology of China, China)

**Room V401 Afternoon 16:00 PM - 17:50 PM**

**Session 2 Sensor Networks Technologies (Session Chair: Zhangbing Zhou)**

**Optimal Fusion Set based Clustering in WSN for Continuous Objects Monitoring**

Hainan Chen, Guangcong Liu (Guangdong University of Technology, China), Xiaoling Wu, Yanwen Wang (Guangzhou Institute of Advanced Technology, China), Tingting Huang, Shiwei Wang (Guangdong University of Technology, China)

**A Virtual Binary-tree Infrastructure based Data Gathering Scheme for Wireless Sensor Networks with a Mobile Sink**

Hui Zhang, Chuan Zhu, Guangjie Han (Hohai University, China), Joel J.P.C. Rodrigues (University of Beira Interior, Portugal), Yan Wan (Shenyang University of Technology, China)

**Object Tracking in Wireless Sensor Networks Using an Itinerary-Based Method**

Zhangbing Zhou (China University of Geosciences (Beijing), China/TELECOM SudParis, France), Jine Tang, Zhenhua Wang, Chu Du (China University of Geosciences (Beijing), China), Yunchuan Sun (Beijing Normal University, China)

**A New Preamble Design and Pattern Matching Aided Timing Synchronization for PLC**

Ying Chen, Hui Zhao, Long Zhao (Beijing University of Posts and Telecommunications, China), Baoyun Zeng (Huawei Technologies Co., Ltd)

**Threshold Analysis for Full Area Coverage in Three Dimensions Based on Bin-Covering Technique**

Huafeng Liu (Beijing Space Information Relay Transmission Technology Research Center, China), Qiong Li (Beijing Institute of Tracking and Telecommunications Technology, China)

**Thursday, August 14, 2014**

**Meeting Room B (Seventh floor) Afternoon 14:00 PM - 15:30 PM**

**Session 1 LTE and OFDM Technologies (Chair: Der-Jiunn Deng)**

**An Improved Channel Estimation Method for LTE PUSCH**

Chong Ma, Tao Peng, Zhonghua He, Muhua Chen (Beijing University of Posts and Telecommunications, China)

**TTI Bundling Enhancements for Medium Data Rate PUSCH in LTE-Advanced Systems**

Shan Yang, Peng Chen, Xiaoming She, Yang Liu (China Telecom, China)

**Investigation of the Algorithm to Reduce the Impact of CSI-RS on LTE Legacy Ues**

Xin Lv, Xinyu Gu, Xiaofei Zhao, Lin Zhang (Beijing University of Posts and Telecommunications, China), Wenyu Li (China Academy of Telecommunication Research, China), Xin Deng (Beijing University of Posts and Telecommunications, China)

**A Low Complexity Receiver for OFDM-IDMA with Multiple Carrier Frequency Offsets**

Jian Dang , Zaichen Zhang, Liang Wu (Southeast University, China)

**Resource Allocation for OFDMA Amplify-Forward Relay System**

Xudong Yin, Jianli Huang, Jiayin Qin (Sun Yat-Sen University, China)

**Meeting Room B (Seventh Floor) Afternoon 16:00 PM - 17:50 PM**

**Session 2 Application Oriented Technologies (Session Chair: Wen-Cheng Lai)**

**Face Recognition Based on 4 Dimensions Local Binary Patterns**

Chao Wang, Jucheng yang, Yarui chen, Chao Wu, Song Dong, Xiaoyuan Zhang (Tianjin University of Science and Technology, China)

**Characteristics of the 60 GHz Indoor Wireless Propagation Based on Ray Tracing with Human Body Movement**

Jun-Hui Zhao, Xu Liu (Beijing Jiaotong University, China)

**Realizing Video Streaming Multicast over SDN Networks**

Siyuan Tang, Bei Hua, Dongyang Wang (University of Science and Technology of China)

**State Estimation for Energy Theft Detection in Microgrids**

Sergio Salinas, Changqing Luo, Weixian Liao, Pan Li (Mississippi State University, USA)

**Multiple Evidence Fusion based Information Diffusion Model for Social Network**

Yanan Wang, Jianhua Li, Xiuzhen Chen, Wanyu Huang (Shanghai Jiao Tong University, China)

**Integrated Low Phase Noise Colpitts Quadrature Voltage Controlled Oscillator and Mixer with Charge-Injection for Wimax Communications and Wireless Networking Application**

Wen-Cheng Lai, Jhin-Fang Huang, Wei-Jian Lin, and Fan-Tsai Kao (National Taiwan University of Science and Technology, Taiwan)

**Thursday, August 14, 2014**

**Meeting Room A (Seventh Floor) Afternoon 14:00 PM - 15:30 PM**

**Session 1 Scheduling Issues (Session Chair: Xiang Chen)**

**An Approximate Dynamic Programming Model for Link Scheduling in WMNs with Gateway Design Constraint**

Chien-Liang Chen, Wan-Yu Liu, Shu-Huai Chang (Aletheia University, Taiwan), Chun-Cheng Lin (National Chiao Tung University, Taiwan)

**Asymmetric Path-Relinking Based Heuristics for Large-scale Job Scheduling Problem in TDRSS**

Peng Lin, Linling Kuang, Xiang Chen, Jian Yan, Jianhua Lu (Tsinghua University, China), XiaoJuan Wang (China Electronic Equipment of System Engineering Institute, China)

**Using one-way Communication Delay for in-order Arrival MPTCP Scheduling**

Fan Yang, Paul David Amer (University of Delaware, USA)

**An Improved Binary PSO-based Task Scheduling Algorithm in Green Cloud Computing**

Lili Xu, Kun Wang, Zhiyou Ouyang, Xin Qi(Nanjing University of Posts and Telecommunications, China)

**Some Theoretical Discussions about the Unfairness Created by Different Buffer Units in Routers**

Bo Zhang, Jinyao Yan, Zheng Chen (Communication University, China)

**Meeting Room A (Seventh Floor) Afternoon 16:00 PM - 17:50 PM**

**Session 2 Routing and Node Placement Issues (Session Chair: Jiankun Hu)**

**A Bat-inspired Algorithm for Router Node Placement with Weighted Clients in Wireless Mesh Networks**

Chun-Cheng Lin, Yan-Sing Li (National Chiao Tung University, Taiwan), Der-Jiunn Deng (National Changhua University of Education, Taiwan)

**Network Deployment and Operation Based on Spatial and Temporal Traffic Model**

Jinwei He, Zhikun Xu, Yami, Chen, Zhengang Pan, Chih-Lin I (China Mobile Research Institute, china)

**Aeronautical Short Messages Preempting Transmission Based on Resource Discrete Distribution**

Tao Zhang, Zaichang Zhao, Jindong Xie, Jinlong Luo (Beihang University, China)

**On the Optimal Routing for Reconfigurable Network Architecture**

Kai Pan, Hui Li, Weiyang Liu, Zhipu Zhu, Bing Zhu (Peking University, China)

**NCAF: a Reduced Flooding Mechanism for Route Discovery in ICN**

Pei Chen, Dagang Li (Peking University, China)

**A Novel Virtual Network Mapping Algorithm with Weighted Multi-commodity Flow**

Tao Huang, Bo Lv, Jiang Liu (Beijing University of Posts and Telecommunications, China)

**Friday, August 15, 2014**

**Room V401 Afternoon 14:00 PM - 15:30 PM**

**Session 1 Vehicle Ad Hoc Networks (Session Chair: Chun-Cheng Lin)**

**Evolution Modeling of Collective Vehicles in Vehicle Ad Hoc Networks**

Longjiang Li, Jianjun Yang, Yuming Mao (University of Electronic Science and Technology, China)

**Improve the Performance of Bus-assisted Vehicular Ad Hoc Networks via Cooperative Game Theory**

Yan Huang, Hong Wu (Heilongjiang University, China), Yan Zhang (Simula Research Laboratory, Norway), Xin Guan (Heilongjiang University, China), Tomoaki OHTSUKI (Keio University, Japan)

**A Cooperative-pricing-based Access Selection Mechanism for Vehicular Heterogeneous Networks**

Changyue Liu, Supeng Leng (University of Electronic Science and Technology, China), Kun Yang (University of Essex, UK)

Liang Tong, Ke Zhang (University of Electronic Science and Technology, China)

**Utility Based Clustering Algorithm for VANET**

Rong Chai, Xianlei Ge, Xun Hu, Bin Yang (Chongqing University of Posts and Telecommunications, China)

**A Context-Aware MAC Protocol in VANET Based on Bayesian Networks**

Shanqiang Yi, Wuwen Lai, Di Tang , Hua Wang (Beijing Institute of Technology, China)

**Room V401 Afternoon 16:00 PM - 17:50 PM**

**Session 2 LTE and OFDM Technologies (Session Chair: Hanna Bogucka)**

**LTE Physical Layer Implementation Based on GPP Multi-core Parallel Processing and USRP Platform**

Zhiping Chen, Jun Wu (Tongji University, China)

**A Compression Scheme for LTE Baseband Signal in C-RAN**

Zhonghua He, Chunjing Hu, Tao Peng, Chong Ma (Beijing University of Posts and Telecommunications, China)

**Design and Implementation of Multiple Antenna Channel Emulator for LTE System**

Yang Song (Beijing University of Post and Telecommunication, China), Can Zhao (Beijing Starpoint Technology Company, Co. Ltd, China)

**An Improved Timing Synchronization Method for Broadband OFDM Based Power Line Communication**

Wenjing Wu, Hongxia Bie, Xuekun Zhang (Beijing University of Posts and Telecommunications, China)

**Symbol Synchronization for OFDM based Heterogeneous Network in the Presence of Co-channel Interference**

Xuan Gu, Li Zhang (University of Leeds, Britain)

**LTE System Performance Evaluation in High-speed Environment**

Haoruo Yan (Beijing Jiaotong University, China), Lei Xiong and Dan Fei (Shanghai Institute of Microsystem and Information Technology, China)

**Friday, August 15, 2014**

**Meeting Room B (Seventh Floor) Afternoon 14:00 PM - 15:30 PM**

**Session 1 Information and Coding Theory (Session Chair: Zhanji Wu)**

**A Fast Algorithm for Calculating Minimum Redundancy Codes with Unsorted Alphabet**

Yupeng Tai, Haibin Wang (Chinese Academy of Science, China)

**Design and Implementation for GPU-based Seamless Rate Adaptive Decoder**

Lu Qiu, Min Wang, Jun Wu, Zhifeng Zhang, Xinlin Huang, (Tongji university, China)

The Encoding Algorithm of Non-Binary Quasi-Cyclic LDPC Cycle Codes on Tanner Graph

Xiuni Wang (Guang Zhou University, China)

**New and Efficient Decoding Architecture for Quasi-Cyclic LDPC Codes**

Zhiming Fan, Zhanji Wu, Hui Che (Beijing University of Post & Telecommunications, China), XiaoPing Zhou (Institute of Microelectronics of Chinese Academy of Sciences, China)

**Improving the Intermediate Recovery Rate of LT Codes Using a Novel Degree Distribution**

Yan Wang , Rongke Liu, Ruifeng Duan (Beihang University, China)

**Meeting Room B (Seventh Floor) Afternoon 16:00 PM - 17:50 PM**

**Session 2 Information and Coding Theory (Session Chair: Vincenzo Piuri)**

**Near-Optimal Rate Adaptation Based on Spinal Codes for Incremental Redundancy Truncated HARQ**

Ruifeng Duan, Rongke Liu, Yan Wang, Jingyun Sun, Runxin Wang (Beihang University, China)

**Linear Dispersion Codes Design Based on Grassmannian Subspace Packing**

Dan Deng (Guangzhou Panyu Polytechnic, China), Ming Zhao (University of Science and Technology, China)

**Joint Multi-layer Multi-rate Code and Quasi-orthogonal Space-Time Code with Good Diversity-Multiplexing Tradeoffs**

Jin Xu (Beijing University of Posts and Telecommunications, China), Weiguo Ma, Xiaoming Dai, Wang Yingmin (China Academy of Telecommunications Technology, China)

**A New Algorithm to Improve the Decoding Success Probability of Raptor Code**

Huihui Li, Xiangying Li, Pei He, Shanqiang Yi, DeWei Yang, HuaFeng Liu (Beijing Institute of Technology, China)

**On the Capacity of Ergodic Channels: A Large Deviation Analysi**s

Yuan Qi, Rongrong Qian, Hongyu Wang, Tao Peng, Wenbo Wang (Beijing University of Post & Telecommunications, China)

**Friday, August 15, 2014**

**Meeting Room A (Seventh Floor) Afternoon 14:00 PM - 15:30 PM**

**Session 1 Optical Communication and Networking (Session Chair: Hui Yang)**

**40-Gb/s Downstream and 10-Gb/s** **Upstream Long-reach WDM-PON Employing Remotely Pumped EDFA and Self Wavelength Managed Tunable Transmitter**

Zhiguo Zhang, Yanfei Sun (Beijing University of Posts and Telecommunications, China), Wangang Ren (China Unicom Limited), Xue Chen, Liqian Wang (Beijing University of Posts and Telecommunications, China), Haili Qin, Lei Zhu (China Unicom Limited), Min Zhang (Beijing University of Posts and Telecommunications, China)

**Signal Constellation Design for Intensity Modulated Free-Space Optical Communications**

Jin-Yuan Wang, Jun-Bo Wang, Ming Chen (Southeast University, China)

**Simulation Step-Size Optimization in the Split-Step Fourier Simulation of Polarized Optical Signal Propoagation through Signal Mode Optical Fiber**

Qun Zhang, Vincent Winstead (Minnesota State University Mankato, USA), Jie Lian (Shandong University, China), Liudong Xing (University of Massachusetts Dartmouth, USA)

**Performance Evaluation of Superchannels Using All-Optical M-QAM OFDM and Coherent Receiver in the Presence of Time and Frequency Offsets**

Mumtaz Ali (Heriot-Watt University, UK), Bo Dai (Heriot-Watt University, UK; University of Shanghai for Science and Technology, China), Xu Wang (Heriot-Watt University, UK)

**Meeting Room A (Seventh Floor) Afternoon 16:00 PM - 17:50 PM**

**Session 2 Optical Communication and Networking (Session Chair: Hui Yang)**

**Experimental Demonstration of Remote Centralized Control Platform with Cloud Service in Software Defined Optical Network**

Qiang Wang, Jie Zhang, Yongli Zhao, Hui Yang, Yiming Yu, Wei Wang (Beijing University of Posts and Telecommunications, China)

**Dynamic Home Circuit Grouping and Wavelength Assignment in LOBS-HC Ring Networks**

Bo Yi , Wan Tang , Ximin Yang (South-Central University for Nationalities, China), Jingcong Li (Minzu University of China)

**Photonic Millimeter-Wave-Band Ultra-Wideband Signal Generation based on a Dual-Drive Mach-Zehnder Modulator**

Dong Wang, Bo Dai, Liqin Ren, Bin Sheng, Qi Wang, Dawei Zhang (University of Shanghai for Science and Technology, China), Xu Wang (Heriot-Watt University, UK)

**Outage Probability Analysis for Parallel Relay-Assisted Free-Space Optical Communications over a Novel Aggregated Channel**

Jin-Yuan Wang, Yang Tang, Jun-Bo Wang, Ming Chen (Southeast University, China), Ying Zhang (Nanjing University of Aeronautics and Astronautics, China)

**Saturday, August 16, 2014**

**Room V401 Morning 8：30 AM - 10:00 AM**

**Session 1 Wireless Communication and Networking (Session Chair: Panlong Yang)**

**Priority-based Distributed Dynamic Multipath Routing for LEO Satellite Networks**

Tao Zhang**,** Hongyong An, Jianing Yang (Beihang University, China)

**Research and Implementation of Adaptive Digital Pre-distortion in High-speed 32-APSK Satellite Communication System**

Celun Liu, Wei Du, Ping Tang, Xinmeng Li, Zhulin Xiong (Beijing Institute of Technology, China)

**Evaluation of Inter-cell Interference in Uplink Cellular Networks with Rayleigh Channels**

Jing Zhang , Tao Han, Yili Xin, Qiang Li, Xiaohu Ge (Huazhong University of Science and Technology, China)

**Stochastic Geometry Study on Small Cell On/Off Adaptation**

Zhesheng Lin, Yuehong Gao, Bimeng Gong, Xin Zhang, Dacheng Yang (Beijing University of Posts and Telecommunications, China)

**Optimal Energy Efficient Offloading in Small Cell HetNet with Auction**

Xiaodong Xu, Huixin Zhang, Xun Dai, Xiaofeng Tao (Beijing University of Posts and Telecommunications, China)

**Room V401 Morning 10：30 AM - 12:00 AM**

**Session 2 Social and Wireless Networks (Session Chair: Panlong Yang)**

**SNetGNA Communities: A New Proposal of Web Application to Online Social Networking Management Systems**

Joel J.P.C. Rodrigues, Diogo Ribeiro (University of Beira Interior, Portugal), Guangjie Han (Hohai University, China), Jianwei Niu (Beihang University, China)

**SAFE-CROWD: Secure Task Allocation for Collaborative Mobile Social Network**

Xiaochen Fan, Panlong Yang, Qingyu Li (PLA University of Science and Technology, China)

**A New Approach of Changeable Password for Keystroke Dynamics Authentication System on Smart Phones**

Cheng-Jung Tsai (National Changhua University of Education, Taiwan), Ting-Yi Chang, Chun-Cheng Peng (Chaoyang University of Technology, Taiwan), Han-Sing Wu (National Changhua University of Education, Taiwan), Mao-Lun (Chaoyang University of Technology, Taiwan)

**An Efficient Split-Channel MAC Protocol for Multihop Wireless Networks**

Shuai Du, Xiaoping Du, Kai Liu (Beihang University, China)

**Analytic Hierarchy Process Applied to JPEG2000 Video Streaming over Wireless Multimedia Sensor Networks**

**Alemayehu Addisu (Politecnico di Torino, Italy), Vincent Sciandra (Transdev, France), Max Agueh (LACSC ECE, France), Laurent George (LIGM, Cite Descartes, France)**

**Saturday, August 16, 2014**

**Room V401 Afternoon 14：00 PM - 15:30 PM**

**Session 1 Wireless Communication and Networking (Session Chair: Xiaoling Wu)**

**An New Acquisition Method for FFH System**

Shuai Wang, Li Mei, Dongfang Hu, Xiangyuan Bu (Beijing Institute of Technology, China)

**Exploiting Charrelation Matrix to Improve Blind Separation Performance in DS-CDMA Systems**

Zhongqiang Luo, Lidong Zhu, Chengjie Li (National Key Lab. of Science and Technology on Communications, University of Electronic Science and Technology of China, China)

**Iterative Threshold Setting Strategy based on Second-order Statistics for Interference Suppression in Frequency Domain**

Yongqing Liu, Yipin Li, Xingyuan Wang, Xiaotian Shao, Aihua Wang (Beijing Institute of Technology, China)

**A Fully Opportunistic Role Selection Strategy for AF Relaying Systems**

Haiyang Ding (Xi'an Communication Institute, China), Daniel Benevides da Costa (Federal University of Ceara, Brazil) Wu-Lin Liu, Feng Jin (Xi'an Communication Institute, China), Feng-Kui Gong (Xidian University, China)

**3D Beamforminmg Methods with User-specific Elevation Beamfoming**

Zheng Hu(Beihang University, China), Shaoli Kang, Xin Su(China Academy of Telecommunications Technology), Rongke Liu (Beihang University, China)

**Room V401 Afternoon 16：00 PM - 17:50 PM**

**Session 2 Wireless Communication and Networking (Session Chair: Xiaoling Wu)**

**A Propagation-Delay-Tolerant MAC Protocol with Adaptive Reservation for Long Propagation Delay Networks**

Furong Xu, Kai Liu, Feng Liu (Beihang University, China) Dongdong Wang (Chinese Academy of Sciences, China)

**Hybrid Bandwidth Allocation for Energy Saving Based on Large-Scale User Behavior in Heterogeneous Networks**

Xing Zhang, Yu Huang, Wenbo Wang (Beijing University of Posts and Telecommunication, China), Chih-Lin I, Gang Li, Yami Chen (China Mobile Research Institute, China)

**Design and Implementation of MAC Layer in Very-high-throughput WLAN**

Bingning Zhu, Guixia Kang, Ningbo Zhang, Xiaoshuang Liu, and Yuncheng Liu (Beijing University of Posts and Telecommunications, China)

**60-GHz Channel Characteristic Interdependence Investigation for M2M Networks**

Suiyan Geng, Shengyao Liu, Xiongwen Zhao (North China Electric Power University, China)

**Optimal Gateway Deployment in the Smart Grid Machine-to-Machine Networks**

Tingting Jiang, Jun-Hui Zhao (Beijing Jiaotong University, China)

**Symbol Error Probability of Non-coherent MFSK with Square-Law Diversity Combining in generalized \eta-\mu Fading Channels**

Jing Yang (Southeast University & Yangzhou University, China), Xianfu Lei (Utah State University, USA), Xiqi Gao (Southeast University, China), Xuelong Hu (Yangzhou University, China)

**Saturday, August 16, 2014**

**Meeting Room B (Seventh Floor) Morning 8：30 AM - 10:00 AM**

**Session 1 MIMO Technologies (Session Chair: Yan Zhang)**

**Performance Evaluation of a New Tapped-Delay-Line Model for Indoor MIMO channels**

Xiongwen Zhao,Yiwei Li, Balla Moussa, Lihua Guan, Shengyao Liu (North China Electric Power University, China)

**Optimal Power Efficiency of Spatial Multiplexing in Optical Wireless MIMO Channels**

Xiangchuan Gao, Yuanyuan Zhang, Zhonyhong Wang, Xingye Wang, Linlin Duan(Zhengzhou University, China)

**Linear Precoding in Large Scale MIMO under 3D Channel Model**

Zheng Hu, rongke liu (Beihang University, China), Shaoli Kang , xin su (China Academy of Telecommunications Technology, China)

**Enhanced MIMO Cooperative Communication based on Signal Space Diversity**

Xiang Gao, Zhanji Wu, Sheng He, Yongtao Shi (Beijing University of Posts and Telecommunications, China), Xiaoping Zhou (Institute of Microelectronics of Chinese Academy of Sciences, China)

**Multi-cell Coordinated Beamforming and Power Allocation with Large Scale MIMO**

Yuan Zhou, Dan Li, Ang Yang, Shaozhen Guo (Beijing Institute of Technology, China)

**Meeting Room B (Seventh Floor) Morning 10：30 AM - 12:00 AM**

**Session 2 MIMO Technologies (Session Chair: Yan Zhang)**

**Blind Interference Alignment Based CoMP Scheme in Downlink MIMO System**

Jian Wu, Shu Fang , Lei Li , Tianyun Shui (University of Electronic Science and Technology of China, China)

**Optimal Pilot Design With CSI Feedback In Massive MIMO Systems**

Dan Li, Yuan Zhou, Ang Yang, Shaozhen Guo (Beijing Institute of Technology, China)

**Analysis of Massive MIMO Systems Downlink Precoding Performance**

Zhongnian Li ,Zhipeng Xiao(Central China Normal University, China)

**Feedback Overhead Reduction Method for 3D MIMO Precoding Systems**

Li Liu, Xiaorong Jing, Xuewen Wu (Chongqing University of Posts and Telecommunications, China)

**Optimal Precoding for Simultaneous Information and Power Transfer in MIMO Relay Network**

Bing Fang, Wei Zhong, Zuping Qian (PLA University of Science and Technology, China), Shi Jin, Jiaheng Wang(Southeast University),Wei Shao (PLA University of Science and Technology)

**Saturday, August 16, 2014**

**Meeting Room B (Seventh Floor) Afternoon 14：00 PM - 15:30 PM**

**Session 1 Cloud Computing based Technologies (Session Chair: Guangjie Han)**

**A Coalitional Game Based Interference Management in Cloud Small Cell Networks**

Mugen Peng, Chengdan Sun, Biling Zhang, Yaohua Sun (Beijing University of Posts and Telecommunications, China)

**Dynamic Resource Allocation and User Association for Heterogeneous Cloud Cellular Networks**

Xueyan Huang, Yong Li, Gang Chuai, Mugen Peng , Wenbo Wang (Beijing University of Posts and Telecommunications, China)

**A Data Placement Strategy based on Clustering and Consistent Hashing Algorithm in Cloud Computing**

Qiang Li, Kun Wang , Suwei Wei, Xuefeng Han, Lili Xu (Nanjing University of Posts and Telecommunications, China), Min Gao (University of California, Los Angeles, USA)

**Compressed Transport of Baseband Signals in Cloud Radio Access Networks**

Pengren Ding (Beijing University of Posts and Telecommunications,China), Zhao Can (Beijing Starpoint Technology Company Limited Co.,Ltd ,China)

**EmuCloud: An Extension to Build SDN Test Environment on IaaS Cloud**

Jian Li, Junxue Liang, Zhaowen Lin, Yan Ma (Institute of Network Technology Beijing University of Posts and Communications,China)

**Meeting Room B (Seventh Floor) Afternoon 16：00 PM - 17:50 PM**

**Session 2 Wireless Communication and Networking (Session Chair: Guangjie Han)**

**Multipath Cluster Impulse Response Prediction for Time-Varying Wireless Channels**

Changwei Lv (Beijing Institute of Technology &Chongqing Communication Institute, Information Technology Department), Wenbo Mei (Beijing Institute of Technology, China)

**Enhanced Block ACK in Distributed Coordination Function for Next Generation Network**

Bingning Zhu，Guixia Kang，Ningbo Zhang，Xiaoshuang Liu，Congcong Li，Yuncheng Liu (Beijing University of Posts and Telecommunications, China)

**A Dynamic Channel Re-Allocation Scheme for TETRA Systems**

Biao Lu, Hai Li, Xu Ning, Dongyun Lin (Beijing Institute of Technology, China)

**Adaptive Power Allocation with Quality-of-Service Guarantees in Secure Wireless Communications**

Tongtong Wang, Piming Ma (Shandong University, China), Yanbo Ma (Shandong University of Finance and Economics, China)

**An Optimized Transmission Mode and Switching Mechanism Towards MBMS Business in Long Term Evolution**

Ting Liu, Longjiang Li, Jianjun Yang, Supeng Leng (University of Electronic Science and Technology, China)

**UPQ: An Effective Packet Scheduling Algorithm for Delay-Sensitive Service in NGEO Satellite Network**

Tao Zhang, Yong Lu, Jun Zhang (Beihang University, China)

**Saturday, August 16, 2014**

**Meeting Room A (Seventh Floor) Morning 8：30 AM - 10:00 AM**

**Session 1 Cognitive Technologies (Session Chair: Tran Trung Duy)**

**Interference Investigation for Cognitive Spectrum Sharing Networks with Reactive DF Relay Selection**

Trung Q. Duong (Queen’s University, UK), Tran Trung Duy (Posts and Telecommunications Institute of Technology, Vietnam), Kyeong J. Kim (Mitsubishi Electric Research Laboratories, USA), Vo Nguyen Quoc Bao (Posts and Telecommunications Institute of Technology, Vietnam), Maged Elkashlan (Queen Mary University of London, UK)

**Coalition Graph Game for Multi-hop Routing Path Selection in Cooperative Cognitive Radio Networks**

Aohan Li, Xin Guan, Ziheng Yang (Heilongjiang University, China), Tomoaki OHTSUKI (Keio University, Japan)

**Power Allocation for Regenerative Cognitive Relay Networks with QoS-guaranteed Primary User**

Peng Lan (Shandong Agricultural University, China), Guowei Zhang (Administration Center of Shandong Academy of Information & Communication Technology, China), Fenggang Sun, Jialin Hou (Shandong Agricultural University, China)

**A Cooperative CSMA/CA MAC for Channel-Hopping Rendezvous based Cognitive Radio Networks**

Quan Liu, Gang Hu , Xiaodong Wang, Xingming Zhou (National University of Defense Technology, China)

**Joint Optimization over Sensing Time and Power Allocation in Cognitive Radio Networks based on Energy Efficiency**

Xia Wu, Jinling Xu, Ming Chen, Junbo Wang (Southeast University, China)

**Meeting Room A (Seventh Floor) Morning 10：30 AM - 12:10 AM**

**Session 2 Cognitive Technologies (Session Chair: Tran Trung Duy)**

**Adaptive Power Allocation for Three Transmission Phases Cognitive Relay Networks with Data Rate Fairness**

Peng Lan, Fenggang Sun (Shandong Agricultural University, China), Guowei Zhang (Administration Center of Shandong Academy of Information & Communication Technology, China), Jialin Hou (Shandong Agricultural University, China)

**Spectrum Data Mining in the Cognitive Radio**

Feng Ren, Xuemeng Wang, Tao Peng, Chong Ma (Beijing University of Posts and Telecommunications, China)

**Game Theory Based Joint Pricing and Resource Allocation for Cognitive Radio Networks with Imperfect Channel Information**

Rong Chai, Li Zhou, Na Zhao, Xiaoya Lin (Chongqing University of Posts and Telecommunications, China)

**Energy-Efficient Sensing in Cognitive Radio Networks**

Xia Wu, Jinling Xu, Ming Chen , Junbo Wang (Southeast University, China)

**Adaptive Power Allocation and Relay Selection for Two Hop AF Cognitive Relay Networks**

Guowei Zhang (Administration Center of Shandong Academy of Information & Communication Technology, China),

Peng Lan, Fenggang Sun, Jialin Hou (Shandong Agricultural University, China)

**Joint Utility Optimization Resource Allocation Scheme for Cognitive Relay Networks**

Qianbin Chen, Xiao Sun, Rong Chai, Panpan Wang (Chongqing University of Posts and Telecommunications, China)

**Saturday, August 16, 2014**

**Meeting Room A (Seventh Floor) Afternoon 14：00 PM - 15:30 PM**

**Session 1 Green Communications and Computing (Session Chair: Lu Liu)**

**Design and Performance Evaluation of Data Flow Processor**

Wenjun Su (Guangzhou Civil Aviation College Guangzhou, China )

**Energy-Efficient Subcarrier-Bit-Power Allocation based on Genetic Algorithm**

Congcong Li, Guixia Kang, Ningbo Zhang, Dongyan Huang, Xiaoshuang Liu, Bingning Zhu (Beijing University of Posts & Tele-communications, China)

**Architecture and Implementation of a Vector MAC Unit for Complex Number**

Yuan Luo, Zhifeng Zhang , Xinlin Huang, Jun Wu, Xin Chen (Tongji University, China)

**A Lightweight Dynamic Multicast Authentication Scheme**

Xuanxia Yao, Xianwei Zhou (University of Science and Technology Beijing, China), Xiaojiang Du (Temple University, USA)

**An Approximate Algorithm of Controller Configuration in Multi-domain SDN Architecture**

Gang Wang, Zhifeng Zhao, Jialiang Peng, Rongpeng Li (Zhengjiang University, China), Honggang Zhang (Universit´e Europ´eenne de Bretagne & Sup´elec, France)

**Meeting Room A (Seventh Floor) Afternoon 16：00 PM - 17:50 PM**

**Session 2 Visualization and Industrial Applications (Session Chair: Lu Liu)**

**A Critical Evaluation of Performance of Visualization Technologies**

Hamdan Al Jabry, Lu Liu (University of Derby, UK), Yingpu Zhu, John Panneerselvam (Jiangsu University, China)

**Robust MIMO Beamforming and Power Allocation for Artificial Noise Generated by Both Transmitter and Receiver**

Yongkai Zhou, Fangbiao Li, Pengze Guo, Zhi Xue (Shanghai Jiaotong University, China)

**Multi-dimensionless Parameters Fusion Method Based on Improved D-S Evidence Theory**

Aisong Qin, Qin Hu, Qinghua Zhang, Guoxi Sun, Longqiu Shao (Guangdong University of Petrochemical Technology, China)

**On the Knapsack-Based Resource Allocation for Reconfigurable Network Architecture**

Kai Pan, Weiyang Liu, Hui Li (Peking University Shenzhen Graduate School, China)

**Block-based Adaptive Compressed Sensing with Feedback for DCVS**

**Jinxiu Zhu,** **Yao Zhang, Guangjie Han, Chuan Zhu (Hohai University, China)**

**Visualizing Lorenz Manifold**

Feng Zhang (Guangdong University of Petrochemical Technology, China)

**Posters**

**Poster Session Chair: Guangjie Han**

**1. A Combined Prediction Handover Algorithm with Mobility history in Heterogeneous networks**

Jin Zhang, Kai kai, ZhiQiang He, BaoYun Tian (Beijing University of Posts and Telecommunications, China)

**2. A Fault-Tolerant Algorithm for Agreement in CDS-Based Mobile Ad-hoc Networks**

Mao-Lun Chiang (Chaoyang University of Technology, Taiwan), Hui-Ching Hsieh (Hsing Wu University, Taiwan), Chun-Cheng Peng (Chaoyang University of Technology, Taiwan)

**3. A Green Transmission Power Control Scheme for Cellular Networks in Smart Grid**

Ke Zhang, Yuming Mao, Supeng Leng (University of Electronic and Science Technology of China, China)

**4. A Multi-path Routing Algorithm For Deep Space Communication**

Jiang Wang, Peng Zhao, Dandan Liang, Yongfeng Ma (Beijing Institute of Technology, China)

**5. An Efficient Coherent Demodulation Algorithm for TETRA Communication System**

Bo Wang, Qin Zhang (Beijing Institute of Technology, China), Guocheng Chen, Junfeng Wang, Qizhu Song (The State Radio- monitoring-center Testing Center, China)

**6. An Energy Efficient Subchannel and Power Allocation Scheme for OFDMA Cellular Heterogeneous Networks**

Rong Chai**,** Jintao Li, Zhimin Guo, Huili Zhang (Chongqing University of Posts and Telecommunications, China)

**7. Cluster Analysis Based Traffic Prediction Method from Real Traffic Traces in LTE Networks**

Shimeng Zhang, Da Ma, Jingbao Gao (Beijing University of Posts and Telecommunications, China), Jun Gu (ZTE Corporation, China), Xing Zhang (Beijing University of Posts and Telecommunications, China)

**8. Energy Aware Dynamic Cooperative Cell Operations of LTE-Advanced Systems**

Yuan Gao (Tsinghua University&Information Science and Technology Institute, China), Yi Li (Tsinghua University&The High School Affiliated to Renmin University of China, China), Hongyi Yu, Xianfeng Wang, Shihai Gao (Information Science and Technology Institute, China)

**9. Enhanced Mobility State Estimation in Heterogeneous Networks**

Liyang Lu, Xinyu Gu (Beijing University of Posts and Telecommunications, China), Shiwen Nie (Beijing Beijing Jiaotong University, China), Lin Zhang (Beijing University of Posts and Telecommunications), Wenyu Li, Xiang Zhang (Standard and Verification China Academy of Telecommunication Research, China)

**10. FPGA Based Implementation of Overlapped QC-LDPC Decoder with Limited Resources**

Xudi jia, Biehong Xia, Zheng Jian, Leichun Yang (Beijing University of Post and Telecommunications, China)

**11. Performance verification of uplink 8-antenna receiver in LTE-Advanced Release 12**

Shan Yang, Peng Chen, Xiaoming She, Yang Liu, Lin Liang (Technology Innovation Center, China)

**12. An optimization based on semi-blind detection for LTE PUCCH format 2**

Yilong Pang, Chunjing Hu, Tao Peng, Deping Lin, Yinxin Wang (Beijing University of Posts and Telecommunications,China)

**13. SDN based Energy Management System for Optical Access Network**

Boyuan Yan, Junwen Zhou, Jialin Wu, Yongli Zhao (Beijing University of Posts and Telecommunications, China)

**14. Secret Key Generation from CFR for OFDM TDD System Over Fading Channels**

Yuexing Peng (Beijing University of Posts and Telecommunication,China), George C. Alexandropoulos (Athens Information Technology, Greece), Peng Wang, Yonghui Li (University of Sydney, Australia), and Dac-Binh Ha (Duy Tan University, Vietnam)

**15. Sparsity Adaptive Matching Pursuit Algorithm for Channel Estimation in Non-sample-spaced Multipath Channel**

Baohao Chen, Qimei Cui, Fan Yang, He Liu, Yujing Shang (Beijing University of Posts and Telecommunications, China)

**16. Spectrum Access Mechanism Based on Graphical Evolutionary Game for Radio Network**

Fangwei Li, Yinghui Yuan, Jiang Zhu, Haibo Zhang (Chongqing University of Posts and Telecommunications, China)

**17. TSCR-MAC:Time Slotted Channel Reservation Based Cognitive MAC**

Juanmei Wu,Yichen Wang, Jianguo Deng (Xi'an Jiaotong University, China)

**18. Utility-Based Scheduling Algorithm for Mixed Traffic in Wired-Wireless Hybrid Networks**

Chun Liu, Yuning Dong (Nanjing University of Posts and Telecommunications, China)

**19. Quality of Experience Prediction of HTTP Adaptive Streaming Traffic in LTE System**

Fei Wang, Liang Chen, Théogène Habineza, Xiaolin Deng, Zesong Fei, Yuan Zhou, Dan Li (Beijing Institute of Technology, China)

**20. A New Approach to the Main Problem of Subspace Coding**

Haiteng Liu, Thomas Honold (Zhejiang University, China)

1. **Quality of Service or Competitiveness? China’s National Standards relating to Patent and Telecommunication** **Service Regulations**

Chunhsien Sung (Department of Law, Hsuan Chuang University)

**22. An YC\_Sunday Base on Improved Sunday Pattern Matching Algorithm**

Zhongming Yang (Guangdong University of Petrochemical Technology, China & Guangdong Provincial Key Laboratory of Petrochemical Equipment Fault Diagnosis), Lin Shen (Shenzhen Youfang Technology Co.,Ltd., China), Yaru Yang (Guangdong Maoming Petroleum Group Co.,Ltd., China)

**23. Performance Comparison of Various Frequency Reuse and Power Masking Schemes in 4G OFDMA Downlink Transmissions**

Hoang Thanh Long, Ruojun Cai (Nanyang Technological University, Singapore), Xuejun Li (Auckland University of Technology, New Zealand), Peter Han Joo Chong (Nanyang Technological University, Singapore)

**24. Trust-based Routing with Neighborhood Connectivity to Prevent Single and Colluded Active Black Hole**

Ruo Jun Cai, Peter Han Joo Chong, Cherry Ye Aung (Nanyang Technological University, Singapore)