



2010 6th International Conference on Wireless Communications, Networking and Mobile Computing

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September 23-25, 2010, Chengdu, China



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The 6th International Conference on Wireless Communications, Networking and Mobile Computing

第六届无线通信、网络技术与移动计算国际会议征文

September 23-25, 2010 Chengdu, China

<http://www.wicom-meeting.org/2010>

WiCOM serves as a forum for wireless communications researchers, industry professionals, and academics interested in the latest development and design of wireless systems. In 2010, WiCOM will be held in Chengdu, China. You are invited to submit papers in all areas of wireless communications, networking, mobile computing and applications. **All papers accepted will be indexed by Ei Compendex and ISTP.**

Topics

Wireless Communications

- Space-Time, MIMO and Adaptive Antennas
- OFDM, CDMA and Spread Spectrum
- Modulation, Coding and Diversity
- Signal Processing for Wireless Communications
- B3G/4G Systems, WiMAX, WLAN and WPAN
- Channel Modeling and Characterization
- Multi-Hop and Cooperative Communications
- Interference Cancellation and MUD
- Radio Resource Management and Allocation
- Cognitive Radio and Software Defined Radio
- Satellite & Space Communications
- Multimedia Communications
- Multiple Access Techniques
- Optical Communications

Network Technologies

- Wireless & Mobile Networking
- Wireless Sensor Networks
- Cognitive Radio Networks
- Ad Hoc, Sensor and Mesh Networking
- Next-Generation Networking and Internet
- Wireless Network Security and Privacy

- Networking and Information Security
- Network Protocol and Congestion Control
- QoS, Reliability & Performance Modeling
- Mobility, Location and Handoff Management
- Capacity, Throughput, Outage and Coverage
- Multimedia in Wireless Networks
- Optical Networks and Systems

Services and Application

- Emerging Wireless/Mobile Applications
- Context and Location-Aware Wireless Services
- Wireless Telemedicine and E-Health Services
- Intelligent Transportation Systems
- RFID Technology and Application
- Cognitive Radio and Sensor-Based Applications
- Content Distribution in Wireless Home Environment
- Wireless Emergency and Security Systems
- Service Oriented Architectures, Service Portability
- SIP Based Services, Multimedia and Middleware
- Innovative User Interfaces for Multimedia Services
- Regulations, Standards and Spectrum Management
- Communications Software and Services
- Mobile Computing Systems

Submission Requirements: The working language of the conference is English. All the papers must be submitted in IEEE electronic format. Instructions and full information about the conference are posted on the conference website. Anyone wishing to propose a special session or a tutorial should contact us: wicom@scirp.org

Important Dates

Submission Deadline: April 6, 2010

Acceptance Notification: May 4, 2010

Contact Information

Website: <http://www.wicom-meeting.org/2010>

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Welcome

On behalf of the Organizing Committee of the 6th International Conference on Wireless Communications, Networking and Mobile Computing (WiCOM 2010), it is my great pleasure to present this proceedings of the conference held in Chengdu, China, September 23rd to 25th, 2010. I would like to take this opportunity to thank all the authors and participants for their support to our conference.

With the development of technology, a great variety of research results are emerging. Following the rapid development trend, WiCOM 2010 is to bring together leading researchers and innovative technologists to exchange the research results and address open issues in those areas. We believe this conference focuses on all wireless technologies, rather than on a single selected one.

I would like to express our gratitude to our sponsors: IEEE Antennas and Propagation Society, IEEE Communications Society, IEEE Chengdu Section, Southwest Jiaotong University, University of Electronic Science and Technology of China and Wuhan University.

At the same time, thanks to the committee members and the reviewers for their excellent work. It would be impossible to organize this conference without the effort from them.

Thanks again for your attention and support to our conference. We are looking forward to seeing you again next year.

Prof. Pingzhi Fan

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Part I Conference Schedule

Registration September 23 ~ September 25, 2010

Time	Date	Location:
9:00-20:00	September 23 rd , 2010	Lobby, 1 st floor, Crowne Plaza Chengdu
8:00-18:00	September 24 th , 2010	Lobby, 1 st floor, Crowne Plaza Chengdu
8:30-14:00	September 25 th , 2010	Lobby, 1 st floor, Crowne Plaza Chengdu

Friday Morning, September 24

Time	Activity	Location: Grand Ballroom ABC, 3 rd floor, Crowne Plaza Chengdu
08:30-09:00	Opening Ceremony	
09:00-09:35	Plenary Speech 1: <i>Near Shannon Limit Low Peak to Average Power Ratio OFDM</i> Prof. Vahid Tarokh (Harvard University, USA)	
09:35-10:10	Plenary Speech 2: <i>Some Recent Variants of Lattice Algorithms in Communications</i> Prof. Wai Ho Mow (HKUST, Hong Kong, China)	
10:10-10:30	Coffee Break	
10:30-11:05	Plenary Speech 3: <i>Indoor Radio Positioning Systems</i> Dr. Yi Huang (The University of Liverpool, UK)	
11:05-11:40	Plenary Speech 4: <i>Protocol Sequences and Their Application to Ad Hoc Networks</i> Prof. Wing Shing Wong (Chinese University of Hong Kong, Hong Kong, China)	
11:40-12:15	Plenary Speech 5: <i>CDMA to LTE Evolution</i> Prof. Fengyi Yang (China Telecom Beijing Research Institute, China)	

Friday Noon, September 24

12:00-13:30	Lunch Buffet	Location: 2 nd floor, Crowne Plaza Chengdu
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Friday Afternoon, September 24

Time	Activity (Coffee Break 15:40 – 16:00)	Location: Crowne Plaza Chengdu
14:00 – 18:00	Oral_1: Ad hoc and Mesh Networks	Grand Ballroom B, 3 rd floor
	Oral_2: Antenna, Circuit and Channel Model	Grand Ballroom C, 3 rd floor
	Oral_3: B3G and 4G Technologies	Huanhua Room, 2 nd floor
	Oral_4: Cognitive Radio	Zongfu Room, 3 rd floor
	Oral_5: Signal Processing (1)	Zengliu Room, 3 rd floor
	Oral_6: MIMO and OFDM	Yinzhu Room, 3 rd floor

Friday Evening, September 24

18:30-20:00	Welcome Banquet	Location: Grand Ballroom ABC, 3 rd floor, Crowne Plaza Chengdu
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Saturday Morning, September 25

Time	Activity (Coffee Break 10:00 – 10:20)	Location: Crowne Plaza Chengdu
08:30 – 12:00	Oral_7: Multimedia in Wireless Networks	Grand Ballroom B, 3 rd floor
	Oral_8: Network Protocols	Grand Ballroom C, 3 rd floor
	Oral_9: Network Security and Value-Added Services	Huanhua Room, 2 nd floor
	Oral_10: Image Processing	Zongfu Room, 3 rd floor
	Oral_11: Signal Processing (2)	Zengliu Room, 3 rd floor
	Oral_12: Wireless Sensor Networks	Yinzhu Room, 3 rd floor

Saturday Noon, September 25

12:00-13:30	Lunch Buffet	Location: 2 nd floor, Crowne Plaza Chengdu
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Saturday Afternoon, September 25

Time	Activity	Location
14:00–15:20	Poster_1: Advanced Wireless Communication Technologies	
14:00–15:20	Poster_2: Applications and Services	
15:20-16:40	Poster_3: Network Protocols	Grand Ballroom ABC, 3 rd floor, Crowne Plaza Chengdu
15:20-16:40	Poster_4: Self-Organizing Networks	
16:40-18:00	Poster_5: Signal and Channel	

Part II Plenary Speeches

Plenary Speech: Near Shannon Limit Low Peak to Average Power Ratio OFDM

Speaker: Prof. Vahid Tarokh, Harvard University, USA

Time: 09:00-09:35, September 24, 2010

Location: Grand Ballroom ABC, 3rd floor, Crowne Plaza Chengdu



Abstract:

One of the main issues of OFDM (Orthogonal Frequency Division Multiplexing) is the high Peak to average power ratio (PMEPR) of the underlying signals. This is for instance the reason that WiMax uses OFDMA and the LTE standard uses single carrier FDMA in the reverse link. A large PMEPR may force power back-off at the RF power amplifier. This reduces not only the power efficiency but also increases the amplifier cost significantly. Moreover, any back-off in power reduces the communications range. This is a critical issue for both user terminals and base stations. Additionally, for cellular base-stations, amplifier cost is a significant portion of the overall expense.

Several PAPR reduction schemes have been extensively studied for multi-carrier systems. A category of these techniques, including selected mapping and partial transmit signaling, reduces the probability of generating a signal with large PAPR while it necessitates the transmission of side information. There are also other PMEPR reduction methods, such as clipping, which do not require transmission of side information, at the expense of other adverse effects such as spectral regrowth and performance loss. A solution to reduce PAPR is utilizing coding techniques. The underlying codes not only must improve the performance but also reduce the underlying PMEPRs. Despite extensive research on this subject and the fact that the existence of asymptotically capacity achieving codes whose codewords have low PMEPR has been theoretically proved, none of the codes proposed for PMEPR reduction has been utilized in practice. The main reason is the loss in spectral efficiency as OFDM block length increases and also the poor error correcting capability of the proposed schemes.

In this talk, we disclose coding methods that perform closely to the Shannon limit while their codewords generate low PMEPR OFDM signals. Various constructions will be discussed. The designed codes can achieve arbitrary rates, and do not increase the encoding complexity and the delay of transmission. Also, the decoding complexity of the proposed codes are comparable to turbo and LDPC codes. Simulation results show that with a loss of 0.25 dB compared to turbo and LDPC codes, gains of order of 7-8.5 dB in PMEPR can be achieved. This amounts to a total of 6.75-8 dB gain in total transmission power over the turbo and LDPC codes.

Plenary Speech: Some Recent Variants of Lattice Algorithms in Communications

Speaker: Prof. Wai Ho Mow, Hong Kong University of Science and Technology, Hong Kong (China)

Time: 09:35-10:10, September 24, 2010

Location: Grand Ballroom ABC, 3rd floor, Crowne Plaza Chengdu



Abstract:

The lattice formulation of signal detection problems has led to some of the most efficient detectors known. The key idea behind is to derive a class of equivalent channels with respect to the unimodular transform for lattices so that very low complexity highly suboptimal detectors applied to a desirable equivalent channel can be turned into high performance low complexity detectors. Many signal detection algorithms for MIMO communications are rediscoveries and variants of known lattice algorithms in the theoretical computer science areas, in particular, cryptography and computational number theory. Some examples are lattice sequence detectors, sphere decoding, lattice-reduction-aided detectors, etc. Communications application considerations also bring new challenges to the design of lattice algorithms, leading to some interesting new developments. The purpose of this talk is to review the connections between lattice algorithms in communications and those in theoretical computer science and highlight some recent variants developed for signal detection, which are apparently not known in computer science and are potentially promising in cryptographic applications.

Plenary Speech: Indoor Radio Positioning Systems

Speaker: Dr. Yi Huang, The University of Liverpool, UK

Time: 10:30-11:05, September 24, 2010

Location: Grand Ballroom ABC, 3rd floor, Crowne Plaza Chengdu



Abstract:

Indoor radio positioning systems have attracted a lot of attention from various sectors of our life, which include such as the health care, homeland security, tourism, and location based services. Many different technologies and systems have been proposed and developed. In this talk we will compare them to identify their advantages and disadvantages. The challenges and future directions will also be discussed and addressed.

Plenary Speech: Protocol Sequences and Their Application to Ad Hoc Networks

Speaker: Prof. Wing Shing Wong, Chinese University of Hong Kong, Hong Kong (China)

Time: 11:05-11:40, September 24, 2010

Location: Grand Ballroom ABC, 3rd floor, Crowne Plaza Chengdu



Abstract:

Protocol sequences were developed to address the media access control problem. A key characteristics for protocols based on these sequences is that they do not require feedback information for their operation. In this talk, we will first briefly review some recent research results on protocol sequences, including results on conflict-avoiding codes, user-irrepressible sequences, and CRT sequences. We will then discuss new development in applying protocol sequences to wireless ad hoc networks.

Plenary Speech: CDMA to LTE Evolution

Speaker: Prof. Fengyi Yang, China Telecom Beijing Research Institute, China

Time: 11:40-12:15, September 24, 2010

Location: Grand Ballroom ABC, 3rd floor, Crowne Plaza Chengdu



Abstract:

LTE is the future of all of the present 2G/3G mobile networks. For the evolution from cdma to LTE, the most important things are about the network architecture, service continuity and interworking between cdma and LTE, network implementations, etc. The purpose of this presentation is to review of the above research works and to discuss the enhanced technology for the LTE+.

Part III Oral Sessions

Friday Afternoon, September 24

Oral Session 1: Ad hoc and Mesh Networks

Chair:

3rd floor, Grand Ballroom B, Crowne Plaza Chengdu

14:00-18:00, Friday, September 24

ID	Paper Title	Author	Affiliation
30451	The Minimal Delay Path and its Evolving Properties in Intermittently Connected Mobile Networks	Qingsong Cai	Beijing Technology and Business University, China
30599	TAPH: An Adjustable Planar Structure for Topology Control in Heterogeneous Wireless Ad Hoc Network	Lei Chen	Soochow University, China
30917	Agent-based Trusted On-Demand Routing Protocol for Mobile Ad-hoc Networks	Hossam M. A. Fahmy	Ain Shams University, Egypt
31030	A Landmark Aware Content Searching Scheme in Opportunistic Networks	Yazhi Liu	Beijing University of Posts and Telecommunications, China
31043	Simulation Study of TCP Performance over Multi-hop Ad Hoc Networks	Lei Cao	Nanjing University of Technology, China
31051	Loop-Based Clustering Routing (LBCR) in Wireless Ad hoc Networks with Unidirectional Links	Guikai Liu	Hunan University of Science and Technology, China
31188	Sleep based Topology Control Based on the Distributed Learning Automata	Mina Shirali	Member of Young Researchers Club in Azad University of Qazvin, Iran
31475	TPSR: Transmission Power based Source Routing Protocol for Mobile Ad Hoc Networks with Unidirectional Links	JunJie Piao	Dongguk University, Korea
31485	A Cross-Layer Scheme for Access Point Selection in Wireless Mesh Networks	Pin Lv	School of Computer, National University of Defense Technology, China
31541	A delay-aware routing metric for multi-radio multi-channel wireless mesh networks	Jing Xu	Huazhong University of Science and Technology, China
31611	A Novel Load-balancing Algorithm for QoS Provisionings over 802.11s Wireless Mesh Networks	Jian-bo Zhong	Wuhan University, China
31712	Reliable and Distributed Power Optimized Routing in Multihop Cooperative Networks	Zahra Mobini	K.N.Toosi University of Technology, Iran
31559	Spread Spectrum Mesh Communication System Using Orthogonal Huffman Sequences	Yoshihiro Tanada	Daiichi Institute of Technology, Japan
30945	Behavioral Modeling for Public Safety Communication in Wireless Mesh Networking	Qian Wei	Beijing University of Technology, China

Oral Session 2: Antenna, Circuit and Channel Model

Chair:

3rd floor, Grand Ballroom C, Crowne Plaza Chengdu

14:00-18:00, Friday, September 24

ID	Paper Title	Author	Affiliation
30207	A Self-Affine Fractal antenna for wireless Telemedicine Applications	Gopalakrishnan Srivatsun	PSG College of Technology, India
30627	Analysis and Design of Jamming System for Frequency Hopped Communications using BFSK based on Simulink	Dantong Na	Changchun Institute of Engineering Technology, China
30751	Space-Time-Delay Correlation of 3D MIMO Channel Model	Kosai Raouf	GIPSA-LAB, France
30944	Land-to-ship radio channel measurements over sea at 2 GHz	Kun Yang	Norwegian University of Science and Technology, Norway
30965	Influence of Structure Parameters on a Planar Monopole Antenna	Aihong Chen	Agricultural University of Hebei, China
31001	An Active-gm-RC Structured CMOS Analog Filter with Time Constant Auto-tuning	Xiangning Fan	Southeast University, China
31177	A Fully Integrated Double Frequency Wide Tuning Range Differential CMOS LC VCO for 2.4GHz IEEE802.15.4/ZigBee	Xiangning Fan	Southeast University, China
31495	Channel Capacity of 60 GHz Wireless Communication Systems over Indoor Line-of-Sight and Non-Line-of-Sight Channels	Jie Dong	Ocean University of China, China
31504	FPGA Implementation of CORDIC-Based Square Root Operation for Parameter Extraction of Digital Pre-Distortion for Power Amplifiers	Min Ye	Ningbo University, China
31511	Ferrite Isolator Design With Low Intermodulation Distortion Under High Power Condition	Dong Yang	Ningbo University, China
31665	Analysis and Decomposition of the Nonlinearities in RF Power Amplifiers	Yan Ye	Ningbo University, China
31766	Simulation and Analysis of the Effects of Tropospheric Scattering Channel on Signal Waveforms	Ming Yang	Wuhan University of Technology, China

Oral Session 3: B3G and 4G Technologies

Chair:

2nd floor, Huanhua Room, Crowne Plaza Chengdu

14:00-18:00, Friday, September 24

ID	Paper Title	Author	Affiliation
30216	A Modified Inter-cell Interference Coordination Algorithm in Downlink of TD-LTE	Bingbing Zhao	Southeast University, China
30607	Measurement of the Impact of Building Penetration Loss on HSDPA Performance	Zhongwei (David) Tang	Telstra, Australia
30895	Performance Comparison of IDMA and CDMA Systems Based on Simulink	Xin Liu	Sichuan University of Science & Engineering, China
31028	Physical Cell Identity Self-Organization for Home eNodeB Deployment in LTE	Yi Wu	Nokia Siemens Networks, China
31105	Miss-tuned Envelope Injection for 2.1GHz HPA Based on Polynomial Model	Youjiang Liu	Tsinghua University, China
31424	On the Evaluation of IMT-Advanced Candidates: Methodologies, Current Work and Way Forward	Ying Wang	Beijing University of Posts & Telecommunications, China

ID	Paper Title	Author	Affiliation
31443	Co-existence Analysis of LTE and WiMAX in Uplink	Yushu Zhang	Beijing Jiaotong University, China
31553	Designing Dynamic Power Saving Strategies via Rent-to-Buy in IEEE 802.16 Mobile WMANs	Jia Liu	Tsinghua University, China
31555	Interference Analysis on Blocking and Adjacent Channel Selectivity in LTE Down-link Performances	Xiuxing Chen	Beijing University of Posts and Telecommunications, China
31634	Performance Evaluation of Uplink Base Station Cooperation in Multi-cell MIMO Systems	Peng Cheng	Intel Labs China, China
31677	Joint Constrained LMS Algorithm and Base Station Assignment for DS-CDMA Receiver in Multipath Fading Channels	Mohamad Moghaddam	Qazvin Islamic Azad University, Iran
31696	System Level Performance Evaluation of LTE with MIMO and Relays in Reuse-1 IMT-Advanced Scenarios	Rainer Schoenen	ComNets, FB6, RWTH Aachen, Germany
30013	The Access Network and Protocol Design for CoMP Technique in LTE-Advanced System	Youjun Gao	China Mobile Research Institute (CMRI), China
31253	A Novel Architecture- Peer to Peer and Closed Network Mobile Multimedia File Transfer in 4G MIPv6 Network	Laxmikanth Dorai	SNS College of Technology, India

Oral Session 4: Cognitive Radio

Chair:

3rd floor, Zongfu Room, Crowne Plaza Chengdu

14:00-18:00, Friday, September 24

ID	Paper Title	Author	Affiliation
30141	A Novel Cooperative Spectrum Sensing Algorithm Based on Random Matrix Theory	Kaitian Cao	Nanjing University of Posts & Telecommunications, China
30145	Power Allocation Using Non-cooperative Game Theoretic Analysis in Cognitive Radio Networks	Ronghua Luo	Nanjing University of Posts and Telecommunications, China
30360	Study on Spectrum Allocation of Primary Users for Cognitive Radio Based on Game Theory	Yunxiao Zu	Beijing University of Posts and Telecommunications, China
30491	Cooperative Compressed Sensing for Wide-Band Spectrum Detection	Bin Gu	Nanjing University of Posts and Communications, China
30590	A Two-Step Schedule Resource Allocation Algorithm in Cognitive OFDMA Systems	Fushun Lv	Xi'an Jiaotong University, China
30643	A Dynamic AOA-RSS Positioning Algorithm for Cognitive Radio	Mohammad Kazemi	Khaje Nasir Toosi University of Technology, Iran
30644	Robust Sequential Spectrum Sensing Based on the Goodness-of-fit Test	Guowei Zhang	Shandong University, China
30667	An Interference Cancellation Scheme for Cognitive Radio Network	Yue Fei	Shanghai University, China
30822	Energy Detection Algorithm Based on Wavelet Packet Transform under Uncertain Noise for Spectrum Sensing	Shibing Zhang	Nantong University, China
30875	Performance Analysis of Energy Detection-based Spectrum Sensing over Fading Channels	Nima Reisi	K.N.Toosi University of Technology, Iran

ID	Paper Title	Author	Affiliation
30888	A Method of Signaling Precoder Information for Dynamical Spectrum Shaping	Guolin Sun	Huawei Tech., China
31660	Cooperative Proactive Spectrum Sensing for Cognitive Radio Networks	Mostafa Mohammadkari	K.N.Toosi University of Technology, Iran
31575	A Practical and Efficient Algorithm for Distributed Interference Alignment Based on Cognitive Radio	Hufei Zhu	Huawei Technologies Co., Ltd., China

Oral Session 5: Signal Processing (1)

Chair:

3rd floor, Zengliu Room, Crowne Plaza Chengdu

14:00-18:00, Friday, September 24

ID	Paper Title	Author	Affiliation
30367	Family Particle Swarm Optimization	Zhenzhou An	Yunnan University, China
30470	Effects of Antenna Correlation and Mutual Coupling on the Carrier Frequency Offset Estimation in MIMO Systems	Yan Wu	Eindhoven University of Technology, Netherlands
30582	A Novel Fine Synchronization Method for Dirty Template UWB Timing Acquisition	Rshdee Alhakim	TIMA Laboratory, France
30586	Analysis of Music Representations of Vocal Performance Based on Spectrogram	Qing Chen	University of Shanghai for Science and Technology, China
30785	An Interference Signal Signature Analysis Algorithm Based on High Order Cumulants	Yan Yang	Beijing Jiaotong University, China
30942	Design and Simulation of Two-channel DDC in Satellite Cellular Integrated System	Chunli Kong	Southeast University, China
31120	A Selective Approach to Improve the Performance of UWB Image Transmission System over Indoor Fading Channels	Ting-ting Lu	Ocean University of China, China
31126	An Improved Gradient Pursuit Algorithm for Signal Reconstruction Based on Compressed Sensing	Canmei Zhou	Beijing Jiaotong University, China
31160	A Robust Audio Watermarking Algorithm Based on Statistical Characteristics and DWT+DCT Transforms	Rajkiran Ravula	Louisiana State University, United States
31252	A Differential Strategy for GNSS Weak Signals Acquisition in Presence of Bit Sign Transitions	Kewen Sun	Politecnico di Torino, Italy
31453	A Unified Approach for Optimal Design of 2-D FIR Filters Using Second-Order Cone Programming	Qingsong Zhou	Electronic Engineering Institute, China
31542	Research into Wave Energy Characteristic Signal of Transition Rainfall in Summer Drought Period in Sichuan and Chongqing	Tiangui Xiao	Wuhan Institute of Heavy Rain, China
31590	Blind Adaptive Stochastic Resonance in Base Band Binary Signal Processing	Miao Yu	Nanjing Telecommunication Technology Institute, China
30528	A Simplified Unbiased MMSE Metric based QRDM Decoder for MIMO Systems	Xiang Wu	Edinburgh University, United Kingdom
31088	Study on Fuzzy DTCC Method for River Main-stream Interpretation from Remote Sensing Image	Lin Han	Northwestern Poly-technical University, China

Oral Session 6: MIMO and OFDM

Chair:

3rd floor, Yinzhu Room, Crowne Plaza Chengdu

14:00-18:00, Friday, September 24

ID	Paper Title	Author	Affiliation
30164	A Pairing Scheduling Scheme for Virtual MIMO Systems	Bo Huang	Southwest Jiaotong University, China
30247	The Effectiveness of Using Source Coding to Reduce PAPR in OFDM System	Filbert Hilman Juwono	University of Indonesia, Indonesia
30325	Pilot Design for MIMO OFDM Channel Estimation regard to Guard Band	Alieh Mmoradi	Shahed University, Iran
30436	Performance Analysis of an Anti-Jamming Multicarrier System with Joint Time-Frequency Spreading	Bo Wu	Peking University, China
30490	A New Phase Noise Mitigation Algorithm for MIMO-OFDM Communications Systems	Elham Kalantari	Shahed University, Iran
30515	Optimal Power Allocation and Relay Selection in OFDM-Based Cooperative Systems	Lijie Wang	The National University of Defense Technology, China
30797	Low SNR Capacity of Jointly-Correlated MIMO Channels	Bin Jiang	Southeast University, China
30866	Performance Analysis of MIMO MRC with M-ary Orthogonal and Biorthogonal Signaling in Rayleigh Fading Channels	Guangqiu Li	Hangzhou Dianzi University, China
31257	Quantum evolutionary complex sphere decoder algorithm for MIMO systems	Liangfang Ni	Anhui University of Technology, China
31260	The Influence of Phase Sequence Distribution on PAPR of OFDM Systems	Hui Zheng	InHa WiTlab, Korea
31315	Computationally efficient QO-STBC OFDM transmitters	Seyoung Cho	Chonbuk National University, Korea
31343	Frequency Synchronization in MIMO OFDM Systems	Liming He	Chang'an University, China
31646	Blind Channel and Frequency Offset Estimation for OFDM via Frequency-Domain Oversampling	Qinghua Shi	University of Electro-Communications, Japan

Oral Session 7: Multimedia in Wireless Networks

Chair:

3rd floor, Grand Ballroom B, Crowne Plaza Chengdu

8:30-12:00, Saturday, September 25

ID	Paper Title	Author	Affiliation
30773	Pinpoint: An Efficient Approach to Traffic State Estimation System Using Mobile Probes	Quang Tran Minh	Shibaura Institute of Technology, Japan
30078	Cooperative Relay Using Erasure Codes for Reliable Data Transport in Wireless Networks	Shuang Qin	University of Electronic Science and Technology of China, China
30364	An On-vehicle Dual-antenna Handover Scheme for High-Speed Railway Distributed Antenna System	Chongzhe Yang	Southwest Jiaotong University, China
30608	An Image Enhancement Algorithm for River Main-stream based on Remote Sensing Data with Wavelet Transform	Lin Han	Northwest Poly-technical University, China

ID	Paper Title	Author	Affiliation
30693	Cross-layer Design for Video Stream Transmission in the Mobile Environment	Zheng Wang	Zhejiang University, China
30840	Adaptive feature selection for infrared object tracking	Shpeng Wang	Xi'an University of Science and Technology, China
30898	A New Algorithm to Approximate Deforming Models Based on Torsion Detection	Shixue Zhang	CIOMP, China
30995	Content-Based Image Retrieval Method and its Application to Shoeprint Identification	Xuejing Dai	China Criminal Police College, China
31367	Visual Motion Detecting and Deblurring Based on Mathematical Morphology and Ensemble Learning	Chao Xing	Northwestern Polytechnical University, China
31381	Efficient Implementation of Image Registration based on Feature Tracking	Syed Aamir Ali Shah	N.W.F-P University of Engineering and Technology, Pakistan
31567	Providing Efficient P2P VoD Service with Priority Based Scheduling	Jun Chen	Huazhong University of Science and Technology, China
31713	Low Dimensional and Easily Interactive Method of 3D Shape from Shading	Qiaosheng Feng	Yunnan Normal University, China
31747	Multiple Likelihoods and State Noises Based Particle Filter for Long-lived Full Occlusion Handling	Chengjiao Guo	Waseda University, Japan
30455	A Two-level Range-free Localization Algorithm for Wireless Sensor Networks	Linqing Gui	University of Toulouse, France
31598	Throughput Improvement of Collision Avoidance in Wireless Sensor Networks	Chaiyut Jandaeng	Prince of Songkla Unniversity, Thailand

Oral Session 8: Network Protocols

Chair:

3rd floor, Grand Ballroom C, Crowne Plaza Chengdu

8:30-12:00, Saturday, September 25

ID	Paper Title	Author	Affiliation
30588	End-to-end Delay Prediction by Neural Network based on Chaos Theory	Hanlin Sun	Beijing University of Post and Telecommunications, China
30612	Multifractal Detrended Fluctuation Analysis of Network Traffic	Hanlin Sun	Beijing University of Post and Telecommunications, China
30691	Improving Delivery Ratio with a Handoff-Based Deterministic Routing Protocol (HDRP) in DTN	Anika Aziz	The Graduate University for Advanced Studies, Japan
30698	Research and Design on TCP Cross-Layer Enhancement Scheme in Next Generation Network	Li Zheqing	Henan University of Science and Technology, China
30748	Cognitive Networking for Wireless Mesh Networks using Swarm Intelligence	Jin Zhang	Nokia Siemens Networks, China
30946	Minimizing the Connection Cost in a Real GSM Network	Hamed Saghaei	Islamic Azad University, Iran
31240	Minimize the Secret Storage - A New Economical Scheme for Identifying Low-cost RFID Tags	Tong-liang Li	Hebei Institute of Applied Mathematics, China

ID	Paper Title	Author	Affiliation
31288	A Tunnel Compress Scheme for PMIPv6-based Nested NEMO	Min-Soo Woo	Korea University, Korea
31419	A New Method and FPGA Implementation of P2P Traffic Identification for EPON	Yingying Cao	Beijing University of Posts and Telecommunications, China
31498	A User's State and SINR -Based Handoff Algorithm in Hierarchical Cell Networks	Peng Xu	Southwest Jiaotong University, China
31618	SPICE library for low-cost RFID applications based on pentacene Organic FET	Shu Shen	Politecnico di Torino, Italy
31666	Research of TCP NAT Traversal Solution Based on Port Correlation Analysis & Prediction Algorithm	Lizhuo Zhang	Central South University, China

Oral Session 9: Network Security and Value-Added Services

Chair:

2nd floor, Huanhua Room, Crowne Plaza Chengdu

8:30-12:00, Saturday, September 25

ID	Paper Title	Author	Affiliation
30236	A No-jamming Selective Interception System of the GSM Terminals	Kan Zhou	Southeast University, China
30259	Shadow Detecting using Mathematical Morphology and Smirnov Test	Chao Xing	Northwestern Polytechnical University, China
30285	An Agent-based Framework For Mobile 2.0	Xiaoning Zhang	Peking University, China
30505	Transformed space sampling particle filtering algorithm for single site passive localization	Zhengbin Yang	National Laboratory of InformationControl Technology for Communication System, China
30570	A Ticket-based Re-authentication Scheme for Fast Handover in Wireless Local Area Networks	Guangsong Li	Ministry of Education, China
30980	Outage Probability Analysis on Multiple-Access Relaying Channel with Analog Network Coding	Yuhua Ouyang	Lanzhou Jiaotong University, China
31259	A Ultra-Wideband Location Algorithm Based on Neural Network	Jie Dong	Ocean University of China, China
31310	Design of A Hybrid RFID/GPS-Based Terminal System in Vehicular Communications	Huiping Li	Henan University, China
31318	Distributed Growing Radial Basis Function Neural Networks for Location Estimation in Indoor Wireless Networks	Vinod Kumar Jain	ABV-IIITM, India
31373	A Study on Coding Assisted Data Dissemination in On-demand Broadcast Environments	Jun Chen	Wuhan University, China
31418	Error-Reduced Positioning Algorithm on the Uneven Floor	Se Hyung Cho	INHA University, South Korea
31524	An e-Science Environment Study Using Wireless Transmission Technique	Yang Wang	Chinese Academy of Sciences, China
30716	An Intelligent Agent for Ubiquitous Travel Information Assistance with Location Awareness	Thiti Vacharasintopchai	Shinawatra University, Thailand

Oral Session 10: Image Processing

Chair:

3rd floor, Zongfu Room, Crowne Plaza Chengdu

8:30-12:00, Saturday, September 25

ID	Paper Title	Author	Affiliation
30300	Fast Covariance Matching based on Genetic Algorithm	Xuguang Zhang	Yanshan University, China
30306	Target Detection Based on Elastic Wave Propagation Equations	Li Cai	Northwestern Polytechnical University, China
30684	Image Segmentation Based on Cloud Concept Analysis	Kun Qin	Wuhan University, China
30996	A Rectification Algorithm for Distorted Images from Cone Surface	Chengqing Tang	China Criminal Police College, China
31116	Feature mouth shapes extraction based on contour of internal lips	Yingjie Meng	Lanzhou University, China
31413	A Non-Local Means Filter with Translating Invariant Shearlet Feature Descriptors	Xiaohua Zhang	Ministry of Education of China, China
31642	Assimilation MODIS and HJ-1 Reflectance Images to Produce NDVI of High Spatial and Temporal Resolution	Wenwen Cai	Beijing Normal University, China
31757	Low Complexity Homography Matrix based SIFT for Real-time 2D Rigid Object Tracking	Ying Lu	WASEDA University, Japan
31764	Automatic Modeling Algorithm Research and Application of Complex Structural Geology in Three-dimensional Space	Juan Peng	Tianjin Institute of Urban Construction, China
31759	Computational Symbolic Approach to Constitutive Theory of Anisotropic Viscoelastic Fluid — Rheology of Liquid Crystalline Polymer	Shifang Han	Chinese Academy of Sciences, China

Oral Session 11: Signal Processing (2)

Chair:

3rd floor, Zengliu Room, Crowne Plaza Chengdu

8:30-12:00, Saturday, September 25

ID	Paper Title	Author	Affiliation
30214	Progressive Frequency-offset Compensation in Turbo Receivers	Xiaofu Wu	PLA Univ. of Sci. &Tech., China
30315	A Novel Approach to Improve the Iterative Detection Convergence of LDPC Coded CPM Modulated Signals	Rui Xue	Harbin Engineering University, China
30332	Multiple Carrier Frequency Offsets Estimation in Cooperative OFDM Systems	Zhang Yanyan	China Mobile Group Design Institute Co., Ltd, China
30365	BP-Maxwell Decoding Algorithm for LDPC Codes over AWGN Channels	Yi Fang	Xiamen University, China
30431	A Receiver Structure of Joint LDPC Decoding and Synchronization for Deep Space Communications	Zengran Wan	Tsinghua University, China
30721	Turbo-Coded Cooperative Diversity for CDMA System	Han Kiat Neo	University of Southampton, United Kingdom
30736	Near Optimal BP Algorithm for LDPC-Coded BICM System with EXIT Analysis	Ying Wang	Zhejiang University, China

ID	Paper Title	Author	Affiliation
31085	On Interleaver Design for Interleave Division Multiple Access (IDMA)	Ahmed Altamimi	University of Victoria, Canada
31234	Capacity of differential pulse-position modulation (DPPM) over Nakagami-m fading channels	Xiao Wang	Ocean University of China, China
31360	Overlapped Time Division Multiplexing System Using Turbo Product Code	Xia Zhang	Beijing Tsingshen Technology Center, LTD, China
31389	Consideration of soft MIMO detection for turbo codes	Pingping Shang	Chonbuk National University, Korea,
31305	Logical Level Implementation of Spatio - Temporal Process Model with Concurrent Processing and Signal Transmission Techniques	Aigong Xu	Liaoning Technical University, China The Academy of Armored Force Engineering, China
31652	Simulation On The fast Frequency Estimation Algorithm of FH Signal	Jun Lv	Force Engineering, China

Oral Session 12: Wireless Sensor Networks

Chair:

3rd floor, Yin Zhu Room, Crowne Plaza Chengdu

8:30-12:00, Saturday, September 25

ID	Paper Title	Author	Affiliation
30320	A Cluster-based Localization Method using RSSI for Heterogeneous Wireless Sensor Networks	Chen Zhong	Luleå University of Technology, Sweden
30341	Study on Refined Deployment of Wireless Mesh Sensor Network	Fan Jing	Yunnan University of Nationalities, China
30438	Low-power Low-cost Implementation of IEEE 802.15.4 in WiSN SoC Design	Ao Luo	Tsinghua University, China
31156	Consumed Energy as a Factor for Cluster Head Selection in Wireless Sensor Networks	Getachew Melese Desalegn	Beihang University, China
31157	A Throughput-Adaptive MAC Protocol for Wireless Sensor Networks	Luo Zuo	Beijing University of Posts and Telecommunications, China
31344	Efficient Time Synchronization for Wireless Sensor Networks	Liming He	Chang'an University, China
31345	Integrated Time Synchronization for Wireless Sensor Networks	Liming He	Chang'an University, China
31348	Efficient Multi-Path Routing in Wireless Sensor Networks	Liming He	Chang'an University, China
31384	Throughput Estimation for Singleton Video Streaming Application over Wireless Sensor Network	Song Guo	Boston University, United States
31602	On-demand Location Service for Wireless Sensor Networks with Mobile Sinks	Heng Chen	Xi'an Jiaotong University, China
31667	Tree-Adapting: An Adaptive Data Aggregation Method for Wireless Sensor Networks	Jun-hu Zhang	Qingdao Technological University, China
30874	A temperature acquisition platform for building special envelope based on wireless sensor networks	He Zhengya	Anhui University of Architecture, China
30665	Mobile Sensor Approach to Location-based Services	Alex Aved	University of Central Florida, USA

Part IV Poster Sessions

Poster 1: Advanced Wireless Communication Technologies

3rd floor, Grand Ballroom ABC, Crowne Plaza Chengdu

14:00–15:20, Saturday, September 25

ID	Paper Title	Author
30026	Performance of Decode-and-Forward Cooperative Communications with Channel Estimation Errors over Nakagami-m Fading Channels	Chen Xujun
30034	A Low Complexity Soft-output QRD-M Algorithm For MIMO-OFDM Systems	Haifang Jian
30045	Heuristic Spectrum Assignment Algorithm in Distributed Cognitive Networks	Li Yu
30060	A New Algorithm of Spectrum Allocation for Cognitive Radio Based on Cooperative Game	Liang Ma
30074	Adaptive Power Allocation for Double STTD System	Rongdao Yu
30085	MU-MIMO Uplink Transmission Scheme Based on SVD in Multicell Scenario	Haitao Li
30087	A New Method for PAR Reduction of OFDM Signal Based on Chaotic Encoder	Yong Guo
30093	System Resource Allocation of TD-SCDMA Terminal Based on SDR Platforms	Li Wang
30102	A novel multi-sleeve antenna for mobile communications applications	Jiang Tao
30140	Reduced Computational Complexity PTS Scheme for PAPR Reduction of OFDM Signals	Lingyin Wang
30163	User selection for Multiuser MIMO BC with Zero-Forcing Beamforming	Min Lu
30173	Printed 6-element dipole array antenna for omnidirection applied in WiMAX	Zhiya Zhang
30211	A Non-planar Monopole Antenna for Ultra-wide Bandwidth Applications	LI Ying-song
30240	A Wideband CMOS Low-Noise Amplifier for Dual-Band GPS Receiver	Jing Shen
30258	On the Performance of MIMO Systems in Presence of Imperfect Channel Information	Kai Sun
30269	Coordinated Transmit and Receive Processing with Adaptive Multi-stream Selection	Hongsun An
30273	Autonomous Time Synchronization Algorithm and Time Synchronization Link Performance Analysis in the Satellite Constellation	Feijiang Huang
30281	Performance Analysis of Cooperative Sensing with Equal Gain Combination over Nakagami Channels in Cognitive Radio Networks	Wen Zhang
30296	Robust Time-domain OFDM Timing Offset Estimation based on PN Sequence under Multipath Channels	Junhui Zhao
30353	RHCP Patch Antenna for Automotive DSRC System	Yingqing Xia
30361	An extensive scheme for SIP-based mobile network fast handoff	Baojiang Wu
30393	Two-Level Spreading OFDM System Using Beamforming and Adaptive Code Assignment for Wireless Communication	Xiaotao Feng
30397	A Low Complexity Power Allocation Approach for OFDM Systems with DF Relay	Fengfeng Shi
30401	A novel method to estimate the end to multi-end capacity bounds in MU-MIMO-relay broadcast channel	Xin Xia
30422	Distributed Relay Selection in OFDM-Based Cooperative Wireless Networks	Wendong Yang
30435	A New Companding Method of the PAR Reduction in Underwater OFDM Communication System	Zhaokai Yuan
30439	Interoperability of Wireless Networks based on Layer Modification and LTE with 4G	Dilshad Mahjabeen
30459	Linear Combination Method for UWB Vehicular Radar Pulse Design	Bin Xia
30473	Channel Estimation and Space-Time Decoding Under MIMO System	Wu Menglong
30504	Admission Control for Integrated Heterogeneous Networks Based on Equivalent Spectral Bandwidth Distribution	Pan Su

ID	Paper Title	Author
30518	Research on the Reduction of PAPR for OFDM Signals by Companding and Clipping Method	Lin Gong
30535	A low complexity iterative receiver for multiuser space-time coding system	Du Na
30536	Reduced-Rank Detection Algorithm Based On MMSE-SQRD for OFDM-V-BLAST Systems	Rui Wang
30550	An Improved Eigenvalue-Based Algorithm for Cooperative Spectrum Sensing	Miao Yang
30577	QoS-constrained MIMO Subchannel Allocation in SDR using the Tunable Channel Decomposition	Jing Wang
30596	Power Allocation Algorithms for OFDM-Based Cognitive Radio Systems	Shuangcheng Yan
30600	A Spectrally Efficient Distributed Coded Cooperation Based On Opportunistic Relaying	Li Wei
30604	A Metaheuristic Approach for the Frequency Assignment Problem	Yuanyuan Zhang
30610	Combination of Turbo Code and Multi-channel Reception in Rayleigh Fading Environment	Wang Jinpeng
30619	Utility Greedy Discrete Bit Loading for interference limited Multi-Cell OFDM system	Xinghui Su
30622	Loop-Delay Estimation for Digital Predistortion System	Xiaowei Kong
30633	The Analysis and Implementation of FPGA for precoding in FFH-OFDM	Jing Qian
30648	An Improved SLM Method Based on Hadamard Transform And Four-dimensional Hyperchaotic Phase Sequences	Sun Yi
30655	Vehicle Surface Affection on Antenna Polarization	Zhongliang Deng
30673	Analysis of the impact on WCDMA R99 network by the introduction of HSPA	Xinzhou Cheng
30714	Compact Ultra-wideband Antenna with Radial Patch	Binggang Xiao
30724	A Wideband Front-End for Software Defined Radio	Shengyuan Zhou
30741	Promising 5.0-15.0 GHz LC Feedback Oscillators	Hsin-Chia Yang
30774	A Novel TPA Scheme for SVD-Assisted Multi-UserMIMO Downlink with Imperfect CSI	Pengfei Chang
30776	A Fast Handover Scheme for Wimax System	Xujie Li
30798	Symbol Error Rate Analysis for Cooperative Diversity networks in Raighlay Channels	Li Jun
30819	Simple and Efficient Channel Estimation Based on Dominant Taps Selection for LTE OFDMA	Wenjuan Wei
30853	Performance Evaluation for Cognitive Radio Networks with Cooperative Diversity	Li Jun
30856	Study for Channel Estimation in OFDM system Based on Comb-pilot	Xijun Zhang
30862	Specific Emitter Identification Based on Intrinsic Time-scale Decomposition	Chunyun Song
30864	Recognition and parameter estimation of MPSK signals based on instantaneous phase difference	Chunyun Song
30882	An Adaptive Feedback Interference Cancelling Algorithm Based on Independent Component Analysis for Wireless Repeaters	JiangNan Yuan
30891	Promising 5.0-16.0 GHz CMOS-Based Oscillators With Tuned LC Tank	Hsin-Chia Yang
30899	Spectrum Sensing for OFDM Systems Based on Cyclostationary Statistical Test	Jianping An
30901	Dynamic Channel Allocation Mechanism Based on Characteristic Matching in Cognitive Wireless Network	Dan Miao
30903	Wireless Data Collection System Design Based on AT86RF212	Xiao-Min Li
30913	Optimal Joint Source and Relay Beamforming for Parallel MIMO Relay Networks	Apriana Toding
30924	A new estimation method based on feature difference for coherent source	Yi Sun
30941	A Hybrid Partial Feedback Scheme of Resource Allocation in OFDMA systems	Liming Hou
30984	Identifier Mapping Buffer Management Based on Markov-Repeated-using-Probability Prediction	Jianwei Zhang
31017	Cobweb Antennas Applied on HF Communications	Daibo Zhang
31026	Optimal Pilot Sequences for Correlated Fading Channels in MIMO-OFDM System	Geng Xin
31039	Sub-Optimal Power Allocation in MIMO-OFDM based Cognitive Radio Networks	Hamid Shahrokh
31042	The Spectrum Solutions of Cognitive Radios with a Signaling Channel	Chen Qixing
31049	Optimal Power Control With QoS Constraint For OFDM-Based Cognitive Radio Network	Liu Chao
31062	Stability Throughput Analysis of Cognitive Radio Interference MIMO Channels	Gao He

ID	Paper Title	Author
31063	An Improved Channel Allocation Algorithm Based on List-coloring	Yuqing Lin
31066	Optimization and Criteria of Collaborative Sensing under Transmission Power Constraint	Cuimei Cui
31091	Closed-Form Error Analysis of OFDM-Based Selective Decode-and-Forward Cooperative Networks over Nakagami-m Fading Channels	Wendong Yang
31093	Evaluation of Spectrum Opportunity of Cognitive Radio Systems	Hyunduk Kang
31117	Effect of multiple clusters on the correlated MIMO capacity in geometrical channel model	Dong Fang
31121	Radar Multi-Targets Real-time Communication Based on Software Radio	HangCheng Han
31150	A Compact Tri-Frequency Patch Antenna With Planar Left-Handed Materials	Chen Wang
31165	Throughput Maximization in Cognitive Radio Networks	Qian Wang
31179	A Novel Reduced-Complexity Group Detection Structure in MIMO Frequency Selective Fading Channels	Khalid Qaraqe
31186	Partner Selection Strategy in Cooperative Diversity Systems	Guomin Li
31204	Power Spreading in Distributed Transmit Antennas	Lu Guan
31206	Performance Analysis and Training Power Allocation for Channel Estimation of MIMO/OFDM Systems Using Superimposed Training	Zhang Han
31210	Channel Capacity of MIMO Systems under Correlate Fading Environment	Jun Wang
31226	On Power Allocation for Alamouti STBC OFDM Systems with Distributed Transmit Antennas in the Presence of Residual Frequency Offsets	Ke Sun
31233	Research and Link Simulation of Key Technologies for LTE Downlink	Qing Zhao
31270	Enhanced Efficient Optimal and Suboptimal Radio Resource Allocation in OFDMA System	Xuefen Yu
31279	Design of LTE E-MBMS Dynamic Scheduling Information	Weimin Wu
31289	On Channels Activity of Opportunistic Spectrum Sharing with Homogeneous Primary Users	Jing Zhang
31293	Broadband microstrip patch antenna with a novel L-shaped CPW-fed for Wibro/Bluetooth/S-DMB operation	Jie Ma
31301	Analysis and Simulation of Sensing Deception in Fading Cognitive Radio Networks	Qihang Peng
31306	Blind Symbol Synchronization for OFDM Systems in Multipath Fading Channels	Xueyong Liu
31312	Adaptive Step Size for OFDM CFR with Cognitive Clipping	Wanzhi Ma
31339	One or Two Transmit Antennas?	Zhigang Li
31342	The Research and Implementation of the Hardware Platform for MIMO Channel Measurement	Lianqing Ji
31353	Research on the Radiation Field of Wide-Band Leaky Coaxial Cable	Linlin Feng
31359	A novel method of distributing the spreading sequence to sub-carriers in MC-CDMA	Jianping An
31361	Joint Scheduling and Precoding Scheme in MU-MIMO System with Limited Feedback	Yang Yang
31369	A Real Time Power Control Method for Wireless Mobile Communications System	Juan Zhou
31394	An OFDM based Space-Time Transmission Scheme for Asynchronous Cooperative Systems over Frequency-Selective Channels	Wenjing Cheng
31395	A New Fast CFO Tracking Algorithm for OFDM Systems	Qiuping Zhu
31400	A QoS Aware Scheduling Scheme for Multiple Traffics with Reduced Feedback	Qiaoyun Sun
31404	An Adaptive MIMO Scheme for E-MBMS in Point-to-Multipoint Transmission Mode	Yong Kong
31409	Spectrum Sensing Based on Cyclic Autocorrelation for Cognitive Radio	Yang Ou
31414	Coverage Efficiency of Radio-over-Fiber Network for High-speed Railways	Jia-Yi Zhang
31422	MIMO-OFDM channel estimation based on Neural Network	Hua Cai
31444	Implementation of Dynamic Spectrum Access Using Enhanced Carrier Sense Multiple Access in Cognitive Radio Networks	Syed Sohail Ahmed
31448	On the Proportional Fairness Scheduling in Wireless OFDM Systems	Juan Wen

ID	Paper Title	Author
31452	Performance of Block Diagonalization Scheme for Various Array Antennas in Multiuser MIMO System	Feng Wang
31458	Some results on the capacity of MIMO Rayleigh fading channels	Xiwu Lv
31479	QoS Provisioning Spectrum Decision Algorithm Based on Predictions in Cognitive Radio Networks	Yang Li
31483	Capacity Analysis of VoIP Service in Cognitive Radio System	Liqiang Jiang
31493	A Multiple Access Scheme for the Uplink of MIMO Systems	Yang Pinlu
31503	Coordinated Transmission with Block Diagonalization in MIMO Broadcast	Yachen Wang
31507	Dual-Band Power Amplifier Using Composite Right/Left-Handed Transmission Line	Jia Shi
31526	An Improved Power Control Strategy for Cognitive Radio Networks with Imperfect Channel Estimation	Qian Hu
31532	Zero-Forcing Beamforming with Limited Feedback in Coordinated Multi-point Transmission	Li Qiang
31548	On Throughput Analysis for Cognitive Interference Relay Channel	Jia Lou
31557	A NEW FMT SYSTEM STRUCTURE WITH RELATIVE CODING	Xinghai Yang
31562	Analysis of Power De-rating Represented by Maximum Power Reduction and Cubic Metric in LTE Uplink Transmission	Xu Yang
31578	A low-complexity Diversity Scheme for SIMO OFDM Systems	Liye Zhao
31594	The Codebook Design for MIMO Precoding Systems in LTE and LTE-A	Jin Wang
31597	A Method for PAPR Reduction Using Pilot Sequences in SC-FDMA	Li Lei
31600	A Vertical Handoff Decision Algorithm Based on Fuzzy Control in WiMAX and TD-SCDMA Heterogeneous Wireless Networks	Qing He
31613	Cognitive Radio Spectrum Sensing and Data Fusing Algorithm	Shiyin Li
31620	A Scheduling Technique for the Downlink of Multiuser MIMO Channels	Chunli Chen
31624	Application Research of Technology Combining AMC and OFDM in HF Communication Systems	Chen Hong
31627	Research on Spectrum Hole Distribution for Cognitive Radio Systems	Zhigang Wen
31641	Reference level Optimization for AGC In OFDM system	Liye Zhao
31661	GLRT based Active Spectrum Sensing for Cognitive Radio Systems	Mostafa Mohammadkarimi
31682	Evaluation of Near MLD Algorithms in MIMO SC-FDMA System	Xin_Ya Liu
31700	The Signal Integrity of The High-speed IC Design	Kaer Huang
30354	Improved Mutually Orthogonal ZCZ Polyphase Sequence Sets and Their Applications in OFDM Frequency Synchronization	Zhang wenchao
30144	Research of High-reliability Transmission Based on Wireless Foundation Fieldbus	Jun Wang

Poster 2: Applications and Services

3rd floor, Grand Ballroom ABC, Crowne Plaza Chengdu

14:00–15:20, Saturday, September 25

ID	Paper Title	Author
30017	Implementation of six-layer automatic elevator controller based on FPGA	Yuhang Zhao
30058	Chinese Error Correction of Searching Engine under N-gram Statistic Model	Gang Liu
30059	A Kind of Model Construction Method Based on Formal Representation of Decision Problem	Xue-Long Chen
30079	A Replica Location Method Based on Huffman encode in mobile grid	Xiao-dong Yan
30083	Application of Visualization and Graphic Analysis on 2-D River Numerical Simulation	Zhang Xiaolei
30095	Research and Realization of the Mobile Agent Communication in KQML Environment	Yuanhui Yu
30133	Clustering Algorithm on Block Division of Documents	Gang Liu

ID	Paper Title	Author
30185	Design and Implementation of Reed-Solomon Encoder in CMMB System	Zefu Tan
30200	A Genetic Algorithm for Spline Least Squares Calculations	Wu Jin
30260	The Network Management System of IP-3DTV Based On IPV4/IPV6	Yongmei Luo
30265	Automatic Image Haze Removal Based on Luminance Component	Fan Guo
30274	The Movement Estimation of Target and Background by Fourier Phase Spectrum Difference	Yuanhao Wu
30307	Image retrieval based on mutual information	shan zhao
30313	An Adaptive, Robust and Multiresolution Image Watermarking for Progressive Wavelet Image Coding	Mehran Deljavan Amiri
30322	Design and Implementation of automatic vending machine Based on the short message payment	Zhang Wen
30335	Filtering of LIDAR Points by a Hierarchical Smoothing Method	Jingzhong Xu
30343	Image restoration with morphological erosion and exemplar-based texture synthesis	Hao Guo
30344	Ant Colony Optimization and Statistical Estimation Approach to Image Edge Detection	Jian Zhang
30362	A High Performance Dithering Method for Gray and Color Image Quantization	Zhijun Yao
30368	The Application of Information Hiding Technology to Electronic Assignment Anti-plagiarism	Bing Fu
30371	Research on Above Ground Marker System of pipeline Internal Inspection Instrument Based on geophone array	Xiao Wu
30378	Study on The Method of Image Restoration in The Environment of Dust	Yuanyu Wang
30387	A Novel Non-Local Means Based Super-Resolution Algorithm with Back-Projection	Rui Lai
30395	A new Image Segmentation Technique Based on Non-Parametric Mixture Model	Liu Zhe
30432	An Approach to Building Extraction in Natural Image	Lingling Li
30458	An Introduction to Hyper-Complex on Meaningful Digital Watermarking	Lijia Liu
30467	Application of Rough Sets and Grey Clustering in Frequency of Wireless Railway Systems	Qiuyan Liu
30494	A Vector-based Method for Simulating Tailpiece to Rotated Texture Images	Bin Yan
30513	Highlight Based Adaptive Transmission in Internet Broadcasting of Soccer Video	Shenghong Hu
30520	DOM generation from aerial images based on airborne position and orientation system	Jianhong Fu
30531	Contour Detection Based On Center-Surround Contrast	Zhiguo Qu
30544	Obtaining Phase Properties of a Passive Laser Unstable Resonators by Processing the Image of Beam Facula Matrix	Xiang Zhang
30571	A New Detection Method of Light Leakage Degree of Piston Rings Based on CCD	Lin Li
30578	MultiClassifier for Car Plate Character Recognition	Ke-Quan Lin
30583	Obstacle Avoidance and Path Planning Based on S-Type Double-Arc Insertion Method	Xiaotong Hu
30587	A Tree Image Segmentation Method Based on 2-D OTSU in HSI color space	Han Dianyuan
30593	Image Restoration and Enhancement Based on Tunable Forward-and-Backward Diffusion	Yi Wang
30606	Video Object Tracking Based on Swarm Optimized Particle Filter	Zhou Hao
30624	MATLAB Design and Research of Fault Diagnosis Based on ANN for the C3I System	Weikang Zhao
30629	Design and Implementation of Media Player Based on Android	Maoqiang Song
30647	A Study on Designing Infrared Video Real-time Processing System Based on TMS320DM642	Hemeng Yang
30650	SIFT Implementation Based on Parallel Computation	Liang Feng
30660	Simulation and Analysis of Vibration Blurred Images	Xiaoyan Wang
30675	Resource Interactive Routing Optimization Based on Genetic Algorithm	Ye Liang
30690	Research on Audio/Video Codec Based on Android	Xiangling Fu
30697	An Information-fusion Edge Preserving Method in Image Filtering	Yi Sun
30762	CABS3: Context-awareness Based Smart Service System	Mo Tong
30764	SAR Water Image Segmentation Based on GLCM and Wavelet Textures	Wang Min

ID	Paper Title	Author
30829	The Research for Implementation of FPGA's Interface based on USB 2.0 Controller	Yuhang Zhao
30836	An Interconnected Scheme Of Interphone Systems Via Ethernet Based On VxWorks	Haile Wu
30914	Analysis of GSM-R dual-layer Network Coverage Technology	Xu Li
30951	Unifying Boundary and Region-based Information for Fuzzy-based Active Region Tracking	Canfei Li
30981	Designing of a Telematic Network to Provide Real-Time Supervision and Control for Tactical Units	Jose Bolivar
30997	A Combination Algorithm for Image Denoising and Deblurring	Yiping Xu
31018	A Subspace Clustering Algorithm	Qiang Zhang
31019	A Grid Based Clustering Algorithm	Qiang Zhang
31078	Multiple granularities self-modified method based on MRF for image segmentation	Chen Zheng
31082	A flexible architecture for RFID based laundry management systems	Yingliang Lu
31094	Forecasting Study on the Power of Jiangsu Province by GM(1,1) Model based on Quadratic Interpolation	Yun-qin Huang
31103	Design and Implementation for CMDB Demultiplex Based on Finite Automaton	Guoping Lei
31114	Design of the Restaurant Self-service Ordering System Based on ZigBee Technology	Sun Guiling
31118	Automatic detection of defects in solar modules	Bei Nian
31132	An Approach Based On Mean Shift And Background Difference For Moving Object Tracking	Gang Yang
31143	Highly Uncertain Project Valuation Based on Sequential and Multiple Real Options	Zhaohui Liang
31144	Match Information Theory	Xianyang Jiang
31153	A New Region Of Interest Based Image Quality Assessment Algorithm	Yanrui Liu
31172	A Real-Time Categorization and Clustering Method for Text Data of Laws and Regulations	Bianping Su
31174	A 3G Video Phone Solution of Improving Synchronization between Audio and Video	Yongqing Gao
31189	Method of locating ellipse center for image measurement based on the maximum inscribed circle	Ning Gao
31195	Design and Implementation of a Vertical Search System for Course Materials	Yongmei Luo
31221	Collaborative Image Transmission Based on Shape Matching over WMSN in field of Monitoring	Wen Zhang
31223	Calculation of Phase Diagram with MATLAB	Xiaobo Li
31230	Atmospheric correction of MERIS over turbid waters using aerosol information from MODIS	Liqiong Chen
31231	Adaptive Fusion Method of Multi-focused Image Based on Wavelet Transform	Ting Zhou
31235	Research on Restoration Algorithm for Ultrasonic Image	Aiping Wu
31248	An Application Scheme of Publish/Subscribe System over Clustering Mobile Ad Hoc Networks	Chunxu Liu
31249	Communications Reliability Analysis of HF AIR-TO-GROUND	Liu Yunjiang
31280	A Method of Multimedia Data Access Speedup Based on IP-SAN	Zaihong He
31285	Real-time defogging processing of aerial images	Xiaoqiang Ji
31292	A high spatial resolution remote sensed imagery classification algorithm using multiscale morphological profiles and SVM	Leiguang Wang
31302	On N-layer Vector Space Model-Based Web Information Retrieval	Wei-qun Luo
31307	The Implementation of the VRML-based Digital Circuit Virtual Experiment	Wei-qun Luo
31313	Scalable Video Coding Transmission System with Error Correction of High-Resolution Multi-View Stereo Video with LDPC	Zhigang Jin
31319	A Two-Step IR-UWB TOA Estimation Method Based on Two-bit ADC	Fei Sun
31340	Nonsubsampled Pyramid based Adaptive Anisotropic Diffusion Filtering for Infrared Image Denoising	Chao Ni
31362	Quantitative Analysis on Request Overlapping in On-demand Broadcast Environments	Jun Chen
31380	Digital Rights Management (DRM) in the Mobile P2P Environment	Jiazheng Wang
31383	Summary of Network RTK Reference Station Ambiguity Determination	Siwei Li

ID	Paper Title	Author
31425	Color Image Clutter Metrics For Predicting Human Target Acquisition Performance	Honghua Chang
31427	Experimental Analysis of Output Phase Properties for the High-power Q-switched Slab Nd:YAG Laser	Xiang Zhang
31449	Numerical Inductance Model of Mine Communication Cable	Jiang Shiyong
31460	Service Composition Algorithm in SOC	Yu Chao
31471	A Integration Method of Competitive Intelligence and Knowledge Management System for Corporate Decision-making	Xiaobo Tang
31496	Testing the Verticality of Slow-axis of the Dual Optical Fiber Based on Image Processing	Ping Zhong
31509	VoIP Capacity Analysis in Cognitive Radio System with Single/Multiple Channels	Zengguang Wang
31512	Enhanced Multimedia Services Based on Integrated IMS-MBMS Architecture in LTE Networks	Yong Sun
31527	Parallel Estimation of Translation for Video Stabilization	Wang Hong
31528	Image Segmentation Algorithm Based on Improved Visual Attention Model and Region Growing	Zhen Hua
31534	Vehicle to Vehicle and Roadside Sensor communication for Intelligent Navigation	Rongyan Xia
31543	Design of a Smart Information Diffusion Service for Museums using RFID-based Location System	Frederic Weis
31544	The Design and Implementation of Multimedia Conference Mobile Terminal Application	Jingjing Ha
31570	A New Data Scheduling Scheme for P2P Streaming in Mobile Networks	Nana He
31577	A Novel Cross-section Imaging Method from Three-dimensional Cardiac Point Cloud with Interpolation Algorithm	Zengguang Wang
31581	Performance Gains of Network Coding in Evolved 3G Mobile Network for MBMS	Wei Cui
31606	Accurate Positioning of SPOT Image Using Aerial Sequence Imagery	Shunping Ji
31608	The Application of Wireless Communication in Mountain Highway Landslide Monitoring	Yonghui Zhang
31609	A Thin Cloud Removal Method for Optical Remote Sensing Imagery based on Spatial Variogram	Chuncheng Zhou
31619	Design Principles For Facilitating Collaboration In Mobile Environments	Eric Lo
31622	Adaptive Illumination Correction Considering Ordinal Characteristics	Yihua Shi
31649	TDOA Mobile Location Based on Kalman Filter in CDMA2000 Cellular Networks	Weiguo Guan
31685	Detection of Line Features and Types Based on Phase Information	Wei Chuntao
31721	Reconstruction of Three Dimensional Object Based on the Light-section Method	Sicheng Wang
31725	Finger Vein Feature Extraction Based on Linear Weighting Function Immune Clone Algorithm	Yu Cheng-bo
31730	A High Speed VLSI Architecture of SPIHT Without Lists for Real-Time Applications	Kai Liu
31732	Research on Multi-source Remote Sensing Image Registration Base on SIFT Algorithm of Window Segmentation	Yun Jiang
31733	Video key-frame-extraction based on block local features and mean shift clustering	Lu Bei
31734	Decoding Path Selection for Multi-view Video System	Mei Yu
31735	An Approach of Content-Based Image Retrieval based on Image Salient Region	Cheng-Si Wang
31737	Image Registration Using Dynamic Log-Polar Transformation	Kui Zhang
31738	The Mathematical Programming Problem of Total Variation Image Denoising Model	Wan Bao-cheng
31739	An Efficient Braille Cells Recognition	AbdulMalik Al-Salman
31743	Analysis of Landscape Change Based on Fractal Dimension	Renzong Ruan
31748	A Wavelet-Domain Watermarking Algorithm Against Geometric Attacks Based on SUSAN Feature Points	Lv-Ming Liu
31754	A Novel Random Sampling Method for Radar Image Compression	Zhang Liang
31756	Improving MODIS Land Cover Classification Using NDVI Time-series and Support Vector Machine in the Poyang Lake Basin& China	Chun Ye

ID	Paper Title	Author
31758	Temporal Influences on Thresholding for Satellite Retrieval of Water Surface Areas: A Case in the Poyang Lake, China	Ping Song
31761	Estimating evapotranspiration using triangle method with topographic correction from MODIS data in Taihu Basin, China	Xiaosong Zhao
31762	Coseismic Deformation of 2009 L'Aquila, Italy Earthquake Derived from Ascending and Descending ENVISAT/ASAR Images	Yongzhe Wang
31765	SAR and Multi-spectral images fusion based on Contourlet and HIS Transform	Dengshan Huang
31770	Blocked Polynomial Deterministic Matrix for Compressed Sensing	Xiaobo Li
31772	Low Complexity Mode Depended Local Adaptive Interpolation Filter for Next Generation Video Coding	Jin Zhou
31773	Changes of Hongze Lake Wetlands in the Past Three Decades	Renzong Ruan
31774	Prediction of Wetland Vegetation Distribution in Hongze Lake	Renzong Ruan
30665	Mobile Sensor Approach to Location-based Services	Alex Aved
30957	Design and Evaluation of a Fuzzy Cooperative Caching Scheme for MANETs	Ihn-Han Bae
31715	An Anomaly Detection System based on Hidden Markov Model for MANET	Xia Ye
31585	The Use of Remote Sensing Technology in Environmental Protection	Xiao-rong XUE

Poster 3: Network Protocols

3rd floor, Grand Ballroom ABC, Crowne Plaza Chengdu

15:20–16:40, Saturday, September 25

ID	Paper Title	Author
30001	A New Web Service Ranking Method based on QoS Independent Components and ANN	Li Wang
30020	Design of communication primitives for satellites networks management	Wenbo Zhang
30037	Web Service Composition based on QoS with Chaos Particle Swarm Optimization	Li Wang
30043	Parallel Backprojection-Filtration Algorithm for 3D Helical Cone-Beam CT	Baodong Liu
30081	Accurate Line Detection by Adjusting Hough Transform Threshold Adaptively	Yan Ma
30086	Research of a dynamic frequency spectrum assignment algorithm based on battle management and control	Ning Zhou
30101	Fast Fourier descriptor method of the shape feature in low resolution images	Jie Ma
30107	Color Image Information Hiding Based on Perceptual Color Clustering	Li Jiang
30134	Implementing Overlay Multicast with SCTP	Jiemin Liu
30138	FPGA Implementation of a Reed-Solomon CODEC for OTN G.709 Standard with Reduced Decoder Area	Tiago Barbosa
30152	International Journal Impact Factor Modeling based on Gene Expression Programming	Yongxiang Zhao
30154	Gene Expression Programming Model for Determining Location in Wireless LANs	Yongxiang Zhao
30160	The Geographic structure Query Language Based on the Peer To Peer and Cooperating Computing Hybrid Discovering Model	Zhanlong Chen
30175	Cross-layer QoS for wireless Video based on Priority-ARQ	Jinhe Zhou
30183	A New Routing Algorithm Based on Hotlinks	Huaqin Jiang
30246	A Fabric Defects Detection Method Using SAR Imaging	Long Zhang
30256	Simulation Research of QoS Scheduling Algorithm in IEEE 802.16	Gang Zhang
30276	WiTracker: An Indoor Positioning System based on Wireless LANs	Yongxiang Zhao
30284	Design for Exhibition System Based on RFID	Guo Wenming

ID	Paper Title	Author
30289	Another Efficient Blind Signature Scheme based on Bilinear Map	Jianhong Zhang
30326	A simple TD-SCDMA DOA detection method by the mid-amble	Haiyang Fu
30328	The risk assessment of crime prevention system based on risk entropy model	Yuanming Huang
30330	Study on the principle of CDMA mode in TD-SCDMA	Haiyang Fu
30356	WLAN MAC Layer Prediction/Collision Avoidance Mechanism Based on Service Attribute and Cross-Layer Control	Gui-gen Zeng
30359	On the Security of an Efficient Mobile Authentication Scheme for Wireless Networks	Jian-zhu Lu
30379	Research on Construction of Trusted Campus Network	Ping Guo
30381	A Multiple Chaotic Encryption Scheme for Image	Mingming Zhao
30386	Differentiated Statistical QoS Guarantees for Real-Time CBR Services in Broadband Wireless Access Networks	Hong Zhou
30390	Towards Fair Spectrum Management, Promoting competition in wireless broadband market	Abdul Wahid Tareen
30394	Quasi-linear Programming Model of Stochastic Transportation Problems	Fachao Li
30426	An Adaptive RED Algorithm Based on q weight	Tang Liping
30428	A RFID Explicit Tag Estimation Scheme for Dynamic Framed-Slot ALOHA Anti-Collision	Prapassara Pupunwiwat
30429	Intelligent High-Level RFID Event Transformation Utilising Non-Monotonic Reasoning	Peter Darcy
30430	A Fast Q Algorithm Based on EPC Generation-2 RFID Protocol	Jianfu Teng
30445	Model Checking of Needham-Schroeder Protocol Using UPPAAL	Mei Rong
30450	Cheat-Proof Traffic-Aware Dynamic Spectrum Access	Yicong Liu
30452	Deviation-Resistant Traffic-Aware Dynamic Spectrum Access	Yicong Liu
30457	Traffic Flow Simulation Model based on Built-in Beam Imaginary Slope and Cellular Automaton	Yuqiang Sun
30462	Image Cheat Encryption Algorithm Based on Hyperchaotic System	Yong Zhang
30475	The mode characteristics of an asymmetrical left-handed material slab waveguide containing dispersion	Dong Xia
30487	A Periodic Integrity Measurements Authenticating Scheme Based on TNC Architecture	Yuqiong Sun
30508	Reversible Zero-bit Watermark Based on Chaotic Encryption	Xiangli Liu
30512	Improving TCP Performance Using Cross-Layer Feedback in Wireless LANs	Qian Wang
30530	Behavior-Based Malware Detection on Mobile Phone	Shuaifu Dai
30549	Model checking security vulnerabilities in software design	Jinhua Li
30575	A New Network Coding Structure and Its Application on CERNET Backbone	Hao Kun
30576	A New Vehicle Network Routing Technology Based on Power Control	Shi Yuzhuo
30618	Synchronization of Hyperchaotic System Based on Fuzzy Model and its Application in Secure Communication	Yi Sun
30628	Zipf-law: A Measurement study of Geographical Distribution of Peers in BitTorrent Swarms	Lidong Yu
30632	VoIP Traffic Identification Based on Host and Flow Behavior Analysis	Bing Li
30682	Investigation of map strength in 160Gb/s dispersion managed quasi-linear transmission system	Ju Cai
30687	Hot-Chord: A Query Algorithm for Accelerating the Locating of Hot Resources	Miao Yuting
30692	A Review of Future Internet Research Programs and Possible Trends	Jinzhou Chen
30699	Region Tracker: An effective way to localize Bittorrent traffic	Gong Chen
30700	Horizontal Integration in Telecommunications Industry	Yonggang Wang
30705	Ring Fabric of Switch Based on Register Insert Ring	Shengyuan Zhou
30731	An Effective Method for Defense against IP Spoofing Attack	Yunji Ma
30744	New Identity-based Threshold Broadcast Encryption for Ad Hoc Networks	Leyou Zhang

ID	Paper Title	Author
30802	Real-time Intrusion Alert Correlation System based on Prerequisites and Consequence	Lin Zhaowen
30805	A Filtering Algorithm for Removing Salt and Pepper Noise and Preserving Details of Images	Jiang Yu
30811	A Bayesian approach for Text Filter on 3G network	Huang Jie
30816	A Trusted Authorization Scheme for E-commerce Systems	Ronglei Hu
30821	Design of programmable filter based on FPGA	Jinting Wang
30861	The Algorithm Research Based on Parallel Web Log Mining	Yunyao Sheng
30877	Research on Intelligence Model in Pervasive Environment	Zongpu Jia
30880	Hardware prototyping of network coding in HDL	Minglong Zhang
30883	A Dynamic Priority Time-Threshold-Based Queuing Scheme for Cellular Multimedia Networks	Jialin Cai
30890	Research on E-Commerce Secure Technology	Yuewen Li
30902	A new path explore of city's Digit Management	Wang Kailiang
30923	A New Preemption policy for Minimizing path preemption cost in MPLS Networks	Mingying Zhu
30929	Wiki-based Digital Libraries Information Services in China and Abroad	Quan Lu
30953	Internet Traffic Characterization based on Active Network Measurement	Jun Liu
30976	The Communication Signal Identification Method Based On Gray Correlation and Evidence Theory	Lin Yun
30979	The improvement And Application of Fuzzy Neural Network In Communication Signal Identification	Lin Yun
30983	A novel method to estimate IP traffic matrix	Xiaoyang Wang
30993	Improved Genetic Algorithm Applied to Optimization of Linear Network Coding	Hao Kun
30994	The Meta-requirements Model Study for Trusted Software	Zhongjun Tang
31036	Diversity-and-Multiplexing Tradeoff of Superposition Coding Relaying Strategy without Channel State Feedback	Laiqiang Zhao
31048	A Fully Integrated SiGe BiCMOS Power Amplifier for 2.4GHz Wireless-LAN Application	Ying Ruan
31119	Prediction of Passive UHF RFID's Discrimination Based on LVQ Neural Network Method	Bing Li
31161	Design and Implementation of Automated Testing Framework for Linux Software GUI Testing	Xiaohui Liu
31167	Gyro Error Coefficient Correction Based on GRNN Neural Network	He Bing
31171	TCP-to-SCTP Translation using Dynamic Rules-table	Jiemin Liu
31184	Web usage mining based on WAN users' behaviors	Hao Yan
31192	Cross-Layer Optimization for WiMAX Systems	Li Zhe
31202	A security registration based on IPSec for mobile IPv6 fast handoff	Lei Zhao
31227	A Layered MPLS Network Architecture	Jialei Wu
31229	Analysis of Stability in FAST Flow Control	Wei Liang
31232	Research of modern drilling instrument system based on the wireless networks	Baorong Zhong
31250	Application for Economy PID Arithmetic Based on Wavelet Neural Network	Dongzhuo Liu
31284	Design and Implementation of the Earthquake Precursor Network Running Monitoring Software based on C/S Structure	Jianguo Wang
31291	Research on the performance testing of the new spatial information network access G/S mode	Tan Li
31297	Performance Analysis of a buffering mechanism for Single Stream Forwarding Handoff Scheme in HAWAII	Amirthavalli Meyyappan
31314	A Hierarchical Backbone Network Based on VLB Architecture	Rui Li
31325	MAC Protocol for Distributed Relay-Assisted Cognitive Radio Networks	Xiaokun Fan
31371	A 5.8GHz Microstrip Antenna Array Using Hemline-Fed Elements	Jingyin Liu
31377	L-HIP: A Localized Mobility Management Extension for Host Identity Protocol	Bo Hu
31385	Random Network Coding for Unicast in Wireless Cellular Network	Wei Cui
31386	An Adaptive Backoff Algorithm for IEEE 802.11 DCF with Cross-layer Optimization	Qian Wang

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31397	Trusted Architecture for Mobile P2P Systems	Xu Wu
31407	Analysis and Modeling of the Botnet Propagation Characteristics	Xinliang Wang
31420	Research on Timestamp Synchronization for Network Confrontation	Leyi Shi
31438	Design and Capacity Analysis of PoC Service Based on TD-SCDMA Network	Binde Luo
31465	Detection of Invalid BGP Routes	Hongjun Wang
31468	Research on Risk Assessment and Optimization Control of Information Systems Development	Guangfu Wei
31478	A Path Selection Scheme Considering Traffic Load for IEEE 802.16j Mobile Multi-hop Relay Networks	DongJun Son
31489	A Predictive Binding Mechanism on Multi-Interface MN in PMIPv6	Wang Lingjiao
31506	A Mechanism of Authentication for P2P-SIP Overlays	Xiaolin Liu
31521	A Novel UWB System with CSS BOK Technique	Fanyu Meng
31522	Epidemic Model of Mobile Phone Virus for Hybrid Spread Mode with Preventive Immunity and Mutation	YuanYuan Fan
31539	Asymptotic Analysis of Decode-and-Forward in Generalized Fading Channels	Weiwei Yang
31545	Analysis of Intrusion Management System Technology	Wang Yaohui
31554	Worm Spread in Bluetooth Networks	Jin-e Liu
31561	A New Threshold Signature Scheme Based on Bilinear Pairings	Xin Lv
31583	A Hierarchical Virtual Resource Management Architecture for Network Virtualization	Bo Lv
31595	A Prediction Based SCTP Handover Scheme for IP/LEO Satellite Network	Zhang Zhu
31644	P-persistent CSMA Protocol Simulation Based on ON/OFF Source Model in Cognitive Radio Network	Xiangjun He
31668	Architecting Survivable Networks using SABSA	Malcolm Shore
31670	Data Privacy Management in a Multi-organizational RFID Authentication	Imran Jokhio
31674	A edge to edge capacity contracting congestion pricing implementation in IP networks	Kai Mao
31680	A novel QoS and profit oriented dynamic pricing and admission control mechanism	Wenan Zhou
31683	A Compact LTCC Balun for Bluetooth/WLAN Application	Wang Lifa
31686	Validity Analysis of the Near-Field Equivalent Method in Simulation	Ke Liu
31689	Existence and uniqueness results for fractional differential equations with delay and impulsive effects	Jun Wu
31705	A Scheme with Queuing Priority for real-time streaming media in 4G Scenarios	Yunbo Wu
31720	A Temperature Independent UWB Transmitter	Li Lei
31723	An efficient indoor location algorithm based on RFID technology	Weiguang Shi
31724	Ant Colony Algorithms with Characteristic of Clustering for Surface Mount Technology Optimization	Zhiping Du
31750	The System of Computer Virtual Fixing Research and Design Based on the VR	Yadong Chen
31767	Multi-scale 3D geological digital representation and modeling method based on octree algorithm	Hualin Dai
30049	The Trust-based mac-Layer security protocol for Mobile Ad hoc Networks	A. Rajaram
31455	The study of mutual authentication and key exchange protocols for low power wireless communications	Lili Yan

Poster 4: Self-Organizing Networks

3rd floor, Grand Ballroom ABC, Crowne Plaza Chengdu

15:20–16:40, Saturday, September 25

ID	Paper Title	Author
30051	Localizing Stationary Target in Distributed Network Environment	Wu Zemin
30062	An Energy Efficient Cross-Layer Clustering Scheme for Wireless Sensor Network	Leishu Dong
30089	Spatial Correlation-based Distributed Compressed Sensing in Wireless Sensor Networks	Haifeng Hu
30098	Spectrum Sensing Gain Analysis in Cooperative Cognitive Radio Networks	Dian-wu Yue
30119	Diagonal Loading for STAP and Its Performance Analysis	Liu Xiaojun
30162	Robust Covariance Matrix Estimation for STAP via Unscented Transformation	Yang Jie
30168	ZRP Versus AODV and DSR: A Comprehensive Study on ZRP Performance using QUALNET simulator	Mankanala SreeRangaRaju
30233	Indoor Energy Load-balanced Wireless Sensor Networks Routing	Shi Weiren
30244	A CSMA/CA-based MAC Protocol for Underwater Acoustic Networks	Dong Fang
30261	Practical Defence against WEP and WPA-PSK Attack for WLAN	Ying Wang
30275	TinyMulle: A Low-power Platform for Demanding WSN Applications	Zhang Fan
30291	Improved fair scheduling mechanism in Distributed WiMAX Mesh Networks	Zhengbing Zhang
30312	A Fair Centralized Scheduling Algorithm Based on Traffic Demand for IEEE 802.16 Mesh Networks	Bin Wang
30314	Mobile Anchor Assisted Node Localization in Sensor Networks Based on Particle Swarm Optimization	Lei Xu
30327	Shadow Queue Based Fair Scheduling in Multi-hop Wireless Networks	Xu Jian
30337	System Implementation of Pushing DATA to Handheld Devices via Bluetooth high speed specification, Version 3.0 + HS	Balasundaram Subbusundaram
30348	A Geo-information Data Transmission Method in Socket-based Mobile Device	Wang Kai
30357	A Hybrid Routing Protocol for Hierarchy Wireless Mesh Networks	Liqiang Zhao
30373	An Energy Consumption Balanced Clustering Algorithm for Wireless Sensor Network	Jian-guang Jia
30374	A Reliable Multicast for MANETs Based on Opportunistic Routing	WenZhong Yang
30384	A Mixed D.C.S. Localization Algorithm for WSN	Tingting Zhang
30415	A Fault Diagnosis Method in satellite networks	Wenbo Zhang
30419	The Research on Protocol for Wireless Sensor Network Based on μ C/OS-II Operating System	Rencheng Jin
30423	An Optimized Method for Minimum MPRs Selection Based on Node Density	Yunfei Bai
30443	Self-Deployment Algorithm of Mobile Sensor Network Based on Uniform Density Cluster	Li Tan
30444	A New Model for Advertisement Dissemination in Ad hoc Networks	Zhong Wang
30484	RBPC: A Scalable Routing Protocol for Large Scale Wireless Sensor Networks	Binbin Hao
30495	Improvement of DV-Hop Localization Algorithms for Wireless Sensor Networks	Ying Dai
30524	Application on Target Localization based on Adaptive Particle Swarm Optimization Algorithm	Yuanyuan Wei
30527	Weighted Least Square Source Localization Theory in an Underwater Wireless Sensor Array Network	Xing Shi
30529	On the Effectiveness of Opportunistic Routing over Wireless Mesh Networks	Haisheng Wu
30540	Design of Subsidence Monitoring System based on Wireless Sensor Networks	Bin Zhu
30554	Graph Method based Clustering Strategy for Femtocell Interference Management and Spectrum Efficiency Improvement	Hongjia Li
30573	A Reliable and Efficient Clustering Algorithm for Wireless Sensor Networks Using Fuzzy Petri Nets	Xiao Fu
30580	A Human Behavior-Based Routing Protocol in E-care System	Hongwei Huo
30585	Investigating the Potential of LPS in Structural Health Monitoring	Fabio Casciati
30616	Cooperative Communications with Multiple Sources and Relays in Ad-Hoc Networks	Peng Huo
30630	Classic Efficient-Energy MAC Protocols for Wireless Sensor Networks	Haiyang Zhang

ID	Paper Title	Author
30651	Spatial Correlation in Wireless Sensor Networks	Xin Xu
30669	Frequency division multiplexing wireless connection	Sara Casciati
30671	Research on Subjective Trust Routing Algorithm for Mobile Ad Hoc Networks	Guo Wei
30688	Research on Video Dynamic Recompression Based on Hierarchical Ad hoc Network	Xiaoyu Zhang
30689	Review of the Cross-Layer Design in Wireless Ad hoc and Sensor Networks	Xiongwei Ren
30701	Enhanced RTS/CTS Scheme in Error-prone WLAN Channel	Xiangyu Peng
30720	BP localization algorithm based on virtual nodes in wireless sensor network	Liu Runjie
30729	Monitoring Bolt Stress for Cut Slope Based on Wireless Sensor Network	Tang Xinjian
30738	Testbed for Multi-hop Ad hoc Network in IEEE 802.11 Wireless Environment	Xiang Zhang
30746	Cluster Cache Based K-hop Clustered MANET Routing Protocol	Yong Li
30779	Delay-aware Routing in Low Duty-Cycle Wireless Sensor Networks	Guodong Sun
30950	An Effective Data Aggregation Mechanism for Wireless Sensor Networks	Peiman Ghaffariyan
30970	Stochastic Delay Bound in Sink-Tree Networks	Yiping Deng
30999	Analysis of Key Technologies for Cognitive Radio Based Wireless Sensor Networks	Jian-guang Jia
31003	Pairing-Based Dynamic Threshold Secret Sharing Scheme	Ye Huang
31023	A Monitoring System of Photovoltaic Array Based on ZigBee Technology	Zhengming Li
31035	Expected Transmission Energy Routing Metric for Wireless Mesh Sensor Network	HuiJun Miao
31040	Optimal Networked Filtering with Out-Of-Sequence Measurements for The Linear Time Invariant System	Quanbo Ge
31077	Challenges and Experiences of Building Multimedia Transmission Testbeds in Wireless Mesh Network	Chungui Liu
31089	Pairing-based Key Management Scheme for Heterogeneous Sensor Networks	Kuiwu Yang
31095	Cross-Layer Routing Optimization for Video Transmission over Wireless Ad Hoc Networks	Zheng Wu
31100	A Scalable Key Predistribution Scheme Based On Combinatorial Designs	Wangke Yu
31102	Network Management in WirelessHART Network for Industry Application	Yun Zuo
31109	Impact of mobility-adaptive mechanisms on stability-orient routing in mobile ad hoc networks	Xi Hu
31112	Optimization Strategy for Mobile Ad Hoc Network Based on AODV Routing Protocol	Li Yuanzhou
31135	An Inter-cluster Gateway-based Energy-efficient Routing protocol	Shi Weiren
31142	Network Coded Multicast Retransmission Scheme Based on Opportunistic Relaying	Qiang Feng
31152	Capacity Regions for General Ad Hoc Networks	Xudong Li
31163	An Energy-Efficient Cluster-based Data Gathering Protocol for Wireless Sensor Networks	Chang Bo
31164	A New Recommendation Trusted Model for Mobile Ad hoc Network	Yaping Chi
31175	Cross-layer Design for Packetized Video Communications over Wireless Ad Hoc Networks	Zheng Wu
31178	Smart Wireless Video Sensor Network for Fire Alarm	Qiulin Li
31180	Energy-efficient node selection for acoustic source localization in wireless sensor network	Junjuan Qian
31207	Application specific analysis of MAC layer protocols used in Wireless sensor networks	Muhammad Haneef
31220	A Load Balancing Data Gathering Scheme in Wireless Sensor Networks with Mobile Sinks	Lin Lin
31238	A Data Fusion Algorithm in Leach Protocol Using Gauss Membership Function	Wei-Qi Chen
31254	A Normal Distribution Encoding Algorithm for Slowly-Varying Data Compression in Wireless Sensor Networks	Ren Xuejun
31256	A Improved Base Station Cooperative Mobile Strategy for WSN with Finite Powered Cluster Heads	Bin Yan
31309	Source-Location Privacy Based on Directed Greedy Walk in Wireless Sensor Networks	Jianbo Yao

ID	Paper Title	Author
31311	The Research and Application of Environmental Monitoring System Based on Wireless Sensor Technology	Junwu Xiao
31317	The wisdom network	Xianwei Zhou
31320	Using Energy Cost for QoS Multicast Routing in Wireless Sensor Network	Qi Zhang
31336	A Loss Tomography Algorithm in Wireless Sensor Networks using Gibbs Sampling	Yu Yang
31354	Energy Efficient Transmission in Wireless Sensor Network for Heavy Haul Railway Transportation	Minming Ni
31363	Performance Analysis of Distributed Coordinated Scheduling in IEEE 802.16 Mesh Mode	Xiaokun Fan
31382	DE-ASS: An Adaptive MAC Algorithm Based on Mobility Evaluation for Wireless Sensor Networks	Dalong Zhang
31387	A Game Theory Approach for Optimal Routing in Wireless Sensor Networks	Babak Arisian
31434	ARQ Protocols for Two-Way Relay Systems	Zhenyuan Chen
31439	Research and implementation of WSN in fire safety Applications	Liu Shixing
31445	OsnWeb: Sensor Web of Ocean Sense	Jin Zongke
31469	Study and Simulation of GTS Allocation in Beacon Enabled IEEE 802.15.4	Fan Shurui
31472	Upper Delay Bound Research about LR-PANs Network Based on Network Calculus	Fan Shurui
31505	WHHT: A Wireless Sensor Network for Heavy Haul Transportation	Jiaying Song
31513	Design and realization of wireless sensor network for vegetable greenhouse information acquisition	Yong Huang
31533	A Prioritized Resource Scheduling Scheme for Throughput-sensitive Applications in VANET	Nan Cheng
31538	Virtual MISO Based Energy-efficient Broadcasting in Clustered Wireless Sensor Networks	Cai Xi-biao
31546	The multi-objective routing optimization of WSNs based on an improved ant colony algorithm	Xu Wei
31571	Research on the Performance of MISO Cooperative Routing Strategy Based on Channel Characteristics	Na Li
31573	Active Defense Model of Wireless Sensor Networks Based on Evolutionary Game Theory	Yihui Qiu
31576	Multiple Ant Colony Routing Optimization based on Cloud Model for WSN with Long-chain Structure	Yongli Zhu
31605	Task Assignment for Multi-UAV Using Contract Net Based on Filter Model	TongShun Fan
31584	Congestion Based Opportunistic Packet Scheduling Algorithm with Variable Size Packets Support in Ad hoc Networks	Xia Hailun
31612	Energy Efficient Information-Driven Target Location Estimation in Wireless Sensor Networks	Hossein Khonsari
31617	Swarm Intelligence - inspired Adaptive Routing Construction in WSN	Ru Huang
31628	Online Power Adaption for Energy Efficiency in Cognitive Radio Networks	Xingkun Xu
31645	Research on the Distributed Power Control Algorithm for RFID Readers	Hongyue Dai
31672	Power Allocation in Cooperative Communication System Based on Coalitional Game	Dan Wu
31673	Topology Control Scheduling Based on the Distributed Learning Automata	Mina Shirali
31688	Pass-Over Problem in Wireless Sensor Networks	Chang Wu Yu
31694	The Research of Coal Mine Security Monitoring System Based on Wireless Sensors Network	Chen Yan
31717	A Novel Chain-Cluster Based Routing Protocol for Mobile Wireless Sensor Networks	Tian Ying
31775	Analysis of Human Impedance and Channel Propagation Characteristics in Body Area Network	Fangming Ruan
31746	A new method of CRInSAR and PSInSAR combined calculation	Xing xuemin
30661	The Construction of Ad Hoc Networks Based on OMAP3530-Mini Development Board	Shijiao Zhang

Poster 5: Signal and Channel

3rd floor, Grand Ballroom ABC, Crowne Plaza Chengdu

16:40–18:00, Saturday, September 25

ID	Paper Title	Author
30002	Joint Synchronization for Burst Communications Based On Unique Words	Fenglin Tan
30025	Uniform Truncation Error for Shannon Sampling Expansion	Peixin Ye
30027	Greedy approximation with regard to some normalized bases	Peixin Ye
30031	Comparison of Nonlinear CMA-Criterion-based Blind Equalizers	Donglin Wang
30072	Parallel Registration and Time Synchronization Algorithm for Radar system	Wu Zemin
30088	Study on Information Fusion Algorithm in Tightly Coupled GPS /SINS Integrated Navigation System	Shuai Chen
30103	A New Semidefinite Programming Method for Asynchronous Multiuser Detection Problem	Xuwen Mu
30111	Design of Wireless Hand-held Controller	Zhao Shilong
30117	A Method of Blind Recognition of Cyclic Code Generator Polynomial	Jiafeng Wang
30192	The Study on Finger Vein Image Enhancement Based on Ridgelet Transformation	Li Hong-bing
30198	Objection Classification Based on Estimation of Foreground Distribution	He Guo
30205	New Algorithm for Testing Stability of 2-D Digital Filters	Junwei Shao
30210	A Stop and Go Blind Equalization Algorithm for QAM Signals	Wei Xue
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