

2009 5th International Conference on Wireless Communications, Networking and Mobile Computing

(WiCOM 2009)

**Beijing, China
24 – 26 September 2009**

Pages 1-692



**IEEE Catalog Number: CFP09WNM-PRT
ISBN: 978-1-4244-3692-7**

TABLE OF CONTENTS

SESSION 1 – B3G AND 4G TECHNOLOGIES

A Novel Adaptive Resource Allocation Scheme in Downlink OFDMA-Based System	1
<i>Sen Cai, Hong Ji and Xi Li</i>	
Precoding and Power Allocation Algorithm for Individual QoS in Downlink MU-MIMO System	5
<i>Jiajing Le, Li Li, Jing Zhang and Hanwen Luo</i>	
On the Optimal System Configurations of Two-Hop Relay Network	9
<i>Chunchang Tian, Yafeng Wang, Zhijie Wang and Lin Qin</i>	
Research on Adaptive Subcarrier-Bit-Power Allocation for OFDMA	13
<i>Guogang Huang, Jiaming He and Qingbo Zhang</i>	
Study on the Improvement Scheme of RAKE Receiver for CDMA Downlink	17
<i>Xiangdong Jia, Fan Li and Haiyang Fu</i>	
Dynamic Frequency Reuse Scheme for Wireless Multi-Hop Relay Networks	22
<i>Liangliang Zhang, Yunbao Zeng, Philipp Zhang, Haiguang Wang and Zhaoyang Zhang</i>	
PIC Detector for Joint Distributed STBC under Imperfect Synchronization	26
<i>Xin Wang and Zhuo Wu</i>	
Performance of Retransmission Partner Selection Scheme for Cooperative HARQ	30
<i>Yiqing Cao, Yafeng Wang, Min Liang, Dacheng Yang and Yafei Wang</i>	
Joint Allocation of Power and Subcarriers for OFDMA Relay Network	34
<i>Jie Shi, Ping Gong and Wei-ling Wu</i>	
Outage Performance of Half-Duplex Cooperative Relay Networks Using Rateless Codes	38
<i>Weiliang Zeng, Yukui Pei, Youzheng Wang and Jianhua Lu</i>	
Adaptive Proportional Fair Scheduling Based on Opportunistic Beamforming for MIMO Systems	44
<i>Li Tan, Gang Su, Guangxi Zhu and Peng Shang</i>	
A New Relay Selection Scheme for Wireless Relay Networks	48
<i>Hua Wu, Yafeng Wang and Dacheng Yang</i>	
A New Two-User Cooperative Transmission Scheme with Low-Complexity FDE in SC-FDMA Systems	52
<i>Xianxue Fan, Gang Wu, Wei Lin and Shaoqian Li</i>	
An Inter-Cell Interference Coordination Scheme for Relay Based Cellular Networks	58
<i>Hui Tian, Fan Jiang, Xijun Wang, Xiaoying Tang and Jietao Zhang</i>	
An Improved Resource Allocation Method Based on Convex Optimization in Centralized Wireless Network	62
<i>Junhui Zhao, Ximei Chen, Junyou Luo and Dongming Wang</i>	
A Novel Energy Fairness Mechanism Based on Relay Selection for Cooperative MAC Protocol	66
<i>Hongtao Zhang, Qihong Yu and Bo Wang</i>	
Optimal Capacity Analysis in the Cooperative Relay System	70
<i>Xiaochen Shen, Chunyan Feng and Tiankui Zhang</i>	
Rate-Embedded Doubly Directional Differential Space-Time-Frequency Coding Schemes	74
<i>Hongwei Zhang, Xiaohui Li and Lu Lu</i>	
Performance Analysis of Scheduling Scheme in Multiuser Cooperative Relay Wireless Networks	78
<i>Lisha Wang and Tiankui Zhang</i>	
Cooperative Communication Based on IDMA	82
<i>Zhifeng Luo, Deniz Gurkan, Zhu Han, Albert Kai-sun Wong and Shuisheng Qiu</i>	
A Multi-Classes-Based Algorithm to Provide Flexible QoS Services in B3G Networks	86
<i>Yue Zhang, Mengqing Jia and Zhiguo Li</i>	
Subcarrier Coupling and Scheduling for Multi-User OFDMA Relaying Networks	90
<i>Jietao Zhang, Hongcheng Zhuang and Zezhou Luo</i>	
Coordinated Multipoint Transmission Systems with the Clustered Super-Cell Structure Configuration	94
<i>Shang-hui Xiao and Zhong-pei Zhang</i>	
Performance of Adaptive Transmitting Mode Selection for Wireless MIMO Broadcast Channels with Limited Feedback	98
<i>Jing Ran and Zemin Liu</i>	
A Novel Carrier Frequency Offset Tracking Scheme in MQAM-OFDM Systems	102
<i>Lijun Ge, Yingxin Zhao, Yu'ang Jin, Wenqi Li and Hong Wu</i>	
Level Crossing Rate and Average Outage Duration of Incremental DF Relay Channel	106
<i>Weixu Zhan, Guijuan Wang, Guangchi Zhang and Jiayin Qin</i>	
A Relay Selection Scheme for the Downlink of Cellular Networks	110
<i>Hua Wu, Yafeng Wang, Guoxing Wei and Dacheng Yang</i>	
A Game Theory Based WiMAX Uplink Power Control Algorithm	114
<i>Jiashu Li, Jiaming He, Qingbo Zhang and Shan Huang</i>	
Nonlinear Overlapped Code Division Multiplexing System with High Spectral Efficiency	118
<i>Suhua Zhou, Li Fang and Daoben Li</i>	
Opportunistic Packet Scheduling in OFDM Distributed Antenna Systems	122
<i>Wenjun Xu, Zhiqiang He and Kai Niu</i>	

Relay-Coded Multi-User Cooperative Communications for Uplink LTE-Advanced 4G Systems	126
<i>Lei Cao, Jinyun Zhang and Norio Kanno</i>	
An Improved Exponential Distributed Power Control Algorithm for MIMO Cellular Systems	132
<i>Xiaodong Xu, Hui Zhang, Jingya Li, Xiaofeng Tao and Ping Zhang</i>	
Joint Dirty Paper Precoding and User Scheduling for Downlink Coordinated Multipoint Transmission System.....	136
<i>Haitao Li</i>	
User-Adaptive Vertical Handover Scheme Based on MIH for Heterogeneous Wireless Networks	140
<i>Jiadi Fu, Hong Ji and Xi Li</i>	
A Dynamic Neighbor Cell List Generating Algorithm in Cellular System.....	144
<i>Huaying Zhou</i>	
A Heuristic Reduced Complexity Computing Method for Multi-Cell Joint Channel Estimation in B3G TDD System	148
<i>Sujian Zhao, Weijun Cheng and Liping Zhu</i>	
Optimal Power Allocation for DAF Cooperative Communication with Multiple Relays.....	152
<i>Gang Chuai and Hong-lai Liu</i>	
An Adaptive Transmission Scheme for AF-OFDM Relaying Systems with Sub-Carrier Mapping.....	157
<i>Funian Li, Guangxi Zhu, Desheng Wang and Yonghui Chen</i>	
Universal Modeling and Optimization for Multi-Radio Access Selection.....	161
<i>Chen Gu, Yong Zhang, Wenjing Ma, Ningning Liu and Yi Man</i>	
Joint Power and Rate Allocation Algorithm with MMSE Receiver for MC-CDMA Systems	165
<i>Jiabin Liu</i>	
Joint Allocation of Frequency and Space Resources for a Cooperative OFDMA Cellular System	169
<i>Yizhen Jia, Youzheng Wang and Jianhua Lu</i>	
Performance Comparison on Schemes for Suppressing Cross-Slot Interference in TD-SCDMA System	174
<i>Xianwen Wang, Tiecheng Song and Bo Xu</i>	
Optimal Relay Location in OFDMA Based Cooperative Networks	178
<i>Yu Dong, Yong Zhang, Mei Song, Yinglei Teng and Yi Man</i>	
Network-Coded Cooperative Diversity in Multi-Hop Cellular Networks	182
<i>Jingyang Lu, Fengwei Wang and Tony Jietao Zhang</i>	
Outage Probability of Space-Time Coded Decouple-and-Forward Relaying over Nakagami-m Fading Channels	186
<i>Yu Chen, Gang Wu, Wei Lin, Qingyun Li and Shaoqian Li</i>	
Time Acquisition of IDMA System in Low SNR Environment.....	191
<i>Hui-Xiao Ma, Xiu-Hong Wang, Gong-Liang Liu and Xing-Peng Mao</i>	
Adaptive Power Control for 4G OFDMA Systems on Frequency Selective Fading Channels.....	195
<i>Rainer Schoenen and Fei Qin</i>	
Route Selection Strategies in Cellular Networks with Two-Hop Relaying	201
<i>Zhangchao Ma, Kan Zheng, Wenbo Wang and Yang Liu</i>	
A Cooperative Coding Scheme Based on OFDM System	205
<i>Chaowei Wang, Lihua Li, Yongtai Xu and Dajian Wang</i>	
A Cooperative Vertical Handover Algorithm in Integrated Wireless and Mobile Network	209
<i>Shan Yang, Zhangdui Zhong and Rongtao Xu</i>	
Sparsity Based CQI Feedback Scheme	213
<i>Rui Zhang, Zhisong Bie, Zhiqiang He and Kai Niu</i>	
Novel Network/Terminal Cooperative Selection Mechanism for Modern Service Industry	217
<i>Shu Zhang, Wen-an Zhou, Fei Ma and Jun-de Song</i>	
Performance Analysis of Two Parallel Relays with ARQ Protocol	222
<i>Lun Tang, Rong Chai, Qianbin Chen and Xiaoping Zen</i>	
Channel Equalization for Filter Bank Based Transmultiplexer System for Wireless Communications	226
<i>Jian Dang and Zaichen Zhang</i>	
An Identity-Based Access Authentication Scheme for Heterogeneous Wireless Network.....	231
<i>Huifang Hou, Yuhua Wang, Yunxia Wang and Guangqiang Liu</i>	
Performance Comparison between Two SISO Detectors for MIMO Channels.....	235
<i>Zhonghui Mei, Qingmin Meng, Xiaofei Li and Lenan Wu</i>	
Study of Adaptive Routing with Multi-Hop Diversity in Multi-Hop Virtual Cellular Network.....	238
<i>Jinpeng Wang, Shufang Zhang and Jingbo Zhang</i>	
The Research and Design of the Repeater Uplink System with Automatic Gain Control for WCDMA	242
<i>Dan Zhang, Haiying Jiang and Yuanan Liu</i>	
Study on the Characteristic of WCDMA Uplink Complex Spreading and Modulation	246
<i>Xiangdong Jia, Jing Yang and Xiong Liu</i>	
Integrated Priority Computing Scheme for Future Mobile Communication	250
<i>Weidong Wang, Yao Zhou, Yinghai Zhang, Zhongwen Wang and Xinlei Zhao</i>	
Coordinated Multi-Point Transmission and Reception for LTE-Advanced	255
<i>Feng Zheng, Muqing Wu and Huixin Lu</i>	
Realization of Share Downlink Carrier between CDMA2000 1x and 1x EV-DO.....	259
<i>Yuhua Ouyang and Xiangdong Jia</i>	
Performance of the MC-DS-CDMA Systems with PCE and Variable Spreading Factors	263
<i>Gh. Farrokhi, S. Zokaei and H. A. Rohi</i>	
Distributed and Centralized Scheduling in Multi-Hop Cellular System.....	268
<i>Fan Huang, Yafeng Wang, Guoxing Wei, Chang Li and Dacheng Yang</i>	

Auction-Based Radio Resource Allocation for OFDMA Systems.....	273
<i>Yibing Gai, Ping Gong, Jingyang Lv and Weiling Wu</i>	
Delay-Bounded Power-Efficient Packet Scheduling for Uplink Systems of LTE.....	277
<i>Zhenwei Li, Changchuan Yin and Guangxin Yue</i>	
The Upper and Lower Bound for Amplify-and-Forward Cooperative Communication.....	281
<i>Changsong Xia, Bocheng Zhu and Weijun Cheng</i>	
Flexible Carrier Aggregation for Home Base Station in IMT-Advanced System.....	285
<i>Jian Li, Yang Liu, Jun Duan and Xuejun Liang</i>	
Performance Evaluation of LTE MBMS Baseline.....	289
<i>Li Zhang, Yi Cai, Zhiqiang He, Chunye Wang and Peter Skov</i>	
A Parallel Layered Decoding Algorithm for LDPC Codes in WiMax System.....	293
<i>Jun Wang and Shu-hui Yang</i>	
An Efficient Relay Selection Strategy for High Speed Users in Cooperative Diversity Systems.....	297
<i>Jingning Wang, Xuejun Sha, Weidang Lu and Zhongzhao Zhang</i>	
Study and Improvement on Time Synchronization System in Space TT&C Network	301
<i>Chang-qing Gong, Shu-bao Wang, Ya-hui Yang and Fu-liang Wang</i>	
Comparison of Different Virtual MIMO Detection Schemes for 3GPP LTE	305
<i>Shengbing Cai, Zhemin Duan and Jin Gao</i>	
Performance of Destination-Driven Regenerative Cooperative Diversity Protocol over Nakagami Fading Channels.....	310
<i>Weijun Cheng, Yuejun Lei and Bocheng Zhu</i>	
A Speed Sensitive Vertical Handoff Algorithm Based on Fuzzy Control	314
<i>Kun Ge, Hong Ji and Xi Li</i>	
Channel-Aware Adaptive ARQ Packets for WiMAX	318
<i>Mingyan Kou, Xiaoyi Wang and Huimin Xu</i>	
A New Power Control Scheme to Improve QoE of Relay User in Cooperative Systems	322
<i>Liang Wang, Weihao Xie, Huimin Chen and Zhuo Wu</i>	
Coordinated Multiple Points Transmission for LTE-Advanced Systems.....	326
<i>Qixing Wang, Dajie Jiang, Guangyi Liu and Zhigang Yan</i>	
Matrix Cyclic Shifting Based Interleaver Design for IDMA System.....	330
<i>Li Han, Minglu Jin and Ende Song</i>	
Uplink Coordinated Multi-Point Reception for LTE-Advanced Systems	334
<i>Dajie Jiang, Qixing Wang, Jianjun Liu, Guangyi Liu and Chunfeng Cui</i>	
Two-Level Buffer State Report Scheme for 3GPP LTE System	338
<i>Youjun Gao and Guangyi Liu</i>	
Power-Effective in Multi-Hop Relay Network Based on Wireless Broadband Systems	343
<i>Lifeng Zhou, Runhe Qiu and Yanling Jin</i>	
Downlink Power Allocation for Distributed Antenna Systems in a Multi-Cell Environment.....	347
<i>Wei Feng, Yunzhou Li, Shidong Zhou and Jing Wang</i>	
High Altitude Platform-Based Two-Hop Relaying Emergency Communications Schemes	351
<i>Li-ping Zhu, Xiaodong Yan and Yi-sheng Zhu</i>	
Design and Performance Evaluation of BICM-ID in Slow Fading Channels.....	355
<i>Xin Zhang, Xuelan Zou, Weiyan Liu and Bin Liu</i>	
Periodic Odd-Shift Orthogonal Sequences Based on Interleaved DFT Matrix	359
<i>Zhenyu Zhang, Fanxin Zeng, Guixin Xuan, Wei He and Jun Gu</i>	
Flexible Uplink Scheduling Algorithm for VMR-WB VoIP Services in IEEE802.16e System	363
<i>Farouk Y. M. Alkadhi, Heng Dai, Zheng Liu, Min Yang and Jufeng Dai</i>	
FRS Handover for Multi-Hop Relay Network Based on Load Balancing Combining Resource Reallocation	368
<i>Ping Wang, Xue Zhao, Fuqiang Liu and Lianhai Shan</i>	
Downlink Performance and Capacity of Distributed Antenna System in Multi-User Scenario	372
<i>Xin Li, Mingsheng Luo, Ming Zhao, Lianfen Huang and Yan Yao</i>	
Scheduling and Link Adaptations for VoIP in TDD-LTE Uplink.....	376
<i>Zhijie Wang, Yafeng Wang, Dajie Jiang, Chunchang Tian and Dacheng Yang</i>	
Research of IP Multimedia System Terminal	381
<i>Weiming Wu and Gengsheng Huang</i>	
Serial-Parallel Combined MCI Cancellation in OFCDM Systems.....	385
<i>Juan Wang and Hongsheng Zhong</i>	
Dynamic Subcarrier and Power Allocation in LTE Networks.....	389
<i>Dapeng Zhang and Laurie Cuthbert</i>	
A Scheduling Scheme Based on the SLNR Criterion	393
<i>Xiaotian Wang, Yongliang Guo, Xiaohu You and Jie Wang</i>	
A QPSK Carrier Estimation Method Based on Modified FFT	397
<i>Lifeng Han, Ying Guo and Yaobo Shang</i>	
Study of Radio Frequency Synchronized Switch for TD-SCDMA Repeater Station	401
<i>Hong Chen</i>	
A Survey on Body Area Network.....	404
<i>Jiang Xing and Yunru Zhu</i>	
Research on the Smart Antenna Algorithm in TD-SCDMA	408
<i>Jian Yu</i>	
Performance Analysis of Viral CDMA Mobile Communication Based on Cross Entropy.....	413
<i>Zhiqiang Zhu, Guangyin Xu, Lin Xu and Junqiang Guo</i>	

MAC-Layer Scheduling Based on Service Coefficients in Heterogeneous Wireless Networks	417
<i>Jun Sun and Hongbo Zhu</i>	
Dynamic Frame Scheduling Scheme for IEEE802.16 Broadband Wireless Networks	420
<i>Hui-Lian Wu, Jun Gu and Ya-Ping Deng</i>	
Performance and Frame Structure of Fractional Frequency Reuse in Multi-User Spatial Multiplexing System	424
<i>Di Gao, Guangxi Zhu, Yanchun Li, Yonghui Chen and Weimin Wu</i>	
Quality of Service Evaluation Scheme for Heterogeneous Wireless Network.....	429
<i>Siyu Lin, Zhangdui Zhong and Bo Ai</i>	
Implementation Methodology of Adaptive Antenna in TD-SCDMA Simulation Platform.....	433
<i>Weina Song, Tiecheng Song and Bo Xu</i>	

SESSION 2 – CODING, DETECTION AND MODULATION

Dynamic Network Coding Problem: An Evolutionary Approach	437
<i>Xiao-Bing Hu, Mark Leeson and Evor Hines</i>	
An Improved Method for the Convergence of Iterative Detection in Turbo-CPM System.....	445
<i>Rui Xue, Dan-feng Zhao and Tie-lin Zhu</i>	
UEP-LDPC Codes with High Spectral Efficiency in Image Transmission	450
<i>Piming Ma and Kyung Sup Kwak</i>	
A Novel Channel Coding Scheme of Accumulate Repeat Tree Codes	454
<i>Maofan Yang, Liang Fang, Xin Zhang and Dacheng Yang</i>	
Optimum Power Loading with Arbitrary Square MQAM for OFDM Systems.....	458
<i>Kaiming Liu, Yuan'an Liu and Bihua Tang</i>	
Sphere Decoding Assisted GA-Based Multiuser Detection for Synchronous LAS Multicode System	462
<i>Hancheng Liao</i>	
A Combined E-Approximation Blind Equalization Method Based on Automatic Modulation Recognition	466
<i>Chang Li and Xiu-Kai Ruan</i>	
An Approach of Eliminating Duplicate Associates in Fountain Codes	472
<i>Yang Zhou, Lin Zhang and Yu Liu</i>	
Multi Layer Perceptron Neural Networks Decoder for LDPC Codes.....	476
<i>A. R. Karami, M. Ahmadian Attari and H. Tavakoli</i>	
SAR Image Compression with Vector Quantization of Wavelet Trees at Low Bit Rates.....	480
<i>Aili Wang and Mingji Yang</i>	
Space-Time Constant Modulus Algorithm Equalizer for STBC Systems.....	484
<i>Qian Zhao and Chuangxin Jiang</i>	
An Iterative Decoding Method Based on Gaussian Approximation for LDPC Coded Modulations	488
<i>Ping Huang, Ming Jiang and Chunming Zhao</i>	
Construction of QC LDPC Codes Based on Cyclic Subgroup over GF(q).....	492
<i>Xiaotao Deng, Jun Gao and Gaoqi Dou</i>	
Nonbinary LDPC Coded FH Systems over Partial-Band Jamming Channels.....	495
<i>Ce-lun Liu, Xiang-yuan Bu and Hong-jian Wang</i>	
Design of Optimal Interpolation Filter for Baseband Shaping	499
<i>Jianbiao He, Qunqun Zhou and Hongyuan Wang</i>	
Design of Concatenated Fountain Code in Deep Space Communication.....	503
<i>Jian Jiao, Qinyu Zhang and Hui Li</i>	
An Underwater Acoustic Spread-Spectrum System Using RA Coding and Band-Pass Signal Acquisition	508
<i>Lanjuan Liu, Xiaotong Zhang, Qin Wang and Li Li</i>	
Multiuser Detection Using the Novel Particle Swarm Optimization with Simulated Annealing	512
<i>Hongyuan Gao and Ming Diao</i>	
Design of BP-Based Decoding for Short LDPC Codes Using MMSE Criterion	517
<i>He Zheng, Huaying Zhou and Jun He</i>	
Serially Concatenated Turbo Codes.....	521
<i>Sina Vafi, Tadeusz Wysocki and Mehran Abolhasan</i>	
A Robust Detection Algorithm for the Multi-Path Channel.....	525
<i>Menglong Wu, Dongyu Wang and Wenkai Liu</i>	
Decision-Directed Estimation of Carrier Frequency and Phase for Burst PSK Transmission	530
<i>Tao Shuai, Xu-wen Liang and Xiao-ting Chen</i>	
A Multiuser Detector Based on Schur Algorithm.....	534
<i>Yanjuan Hu and Fang Hu</i>	
Combined Fountain Code with Network Coding for Error-Tolerant Transmission Network	538
<i>Jing Yang and Jianping An</i>	
On the Implementation of Digital Intermediate Frequency Transceiver for DMR System	542
<i>Han Wang, Yangjun Song and Xiaokang Lin</i>	
A Deterministic Method for Choosing Search Radii in Sphere Decoding	546
<i>Sanzheng Qiao</i>	
The Comparisonal Analysis of the Concept of Rectangular and Hexagonal Pilot in OFDM.....	550
<i>Jean-Baptiste Yamindi and Mu-qing Wu</i>	
Intelligent Video Monitor System Based on Neural Networks Analysis	554
<i>Rong Li, Li Zhu and Sheng-sheng Yu</i>	

A Fast and Efficient Intra Mode Decision Algorithm for H.264/AVC	560
<i>Yunhui Shi, Huayuan Cai and Baocai Yin</i>	
Design Methodology of Concatenate Code for Extended RS Combined with Rotational Invariant TCM code	564
<i>Min-hyuk Kim, Tae-doo Park, Nam-soo Kim, Chul-seung Kim and Ji-won Jung</i>	
The Data Reuse LMS Channel Estimation Algorithm in Turbo Equalization	568
<i>Hua Xu, Gaofei Sun and Ming Li</i>	
Performance Research and Simulation on DSSS System with Short Spreading Code against Single Frequency	572
<i>Xing-zhong Li, Zhen-chuan Zhang, Yue-feng Zhan and Zong-tao Sun</i>	
An Improved Space-Time Decoder Under MIMO System	576
<i>Menglong Wu, Kai Chen, Danpu Liu and Guangxin Yue</i>	
Design and Implement of Digital Modulator Based on Improved DDS Technology and DSP Builder	580
<i>Kangshun Li, Xiaoqiao Lu, Wensheng Zhang and Feng Wang</i>	
VLSI Design for DVB-T2 LDPC Decoder	585
<i>Wengang Zhou, Jun Yang and Peng Wang</i>	
Decoding Structure of Turbo Code Based on Parallel Prediction Control	589
<i>Zhao Xu, Ke Wang, Zhuo Li and Xiang-Yu Xue</i>	
A Twi-Serial-Parallel Correlator with FFT Approach for Long Code Acquisition in Spread Spectrum Communication System	593
<i>Yong Chen and Hang-sheng Zhao</i>	
Envelope Correlation Analysis for Multi-Path Fading Signals	597
<i>Dongyu Wang, Zhuwei Wang and Dacheng Yang</i>	
Girth 4 and Low Minimum Weights' Problems of LDPC Codes in DVB-S2 and Solutions	601
<i>Xi Huang, Jun Fan, Yang Xiao and Kiseon Kim</i>	
Performance Analysis of Quadratic Prime Codes and Construction of New Frequency-Hopping Sequences	605
<i>Dongkai Yang, Kefei Liu, Qingge Liu and Qishan Zhang</i>	
Frequency-Hopping Codes Based on Four-Dimensional Chaotic System	609
<i>Liangrui Tang, Ankun Yang, Qin Zhang and Yi Sun</i>	
Blind Multiuser Detection Using Adaptive Filter	613
<i>Yongjian Zhang, Dongyu Wang, Yanshuang Kang and Dacheng Yang</i>	
New Constructions of ZCZ Sequence Sets Based on Affine Transformations	617
<i>Xuan Zhang and Qiaoyan Wen</i>	
Research on Binary Complementary Sequence Pair Set and Its Construction Methods	621
<i>Junping Gao, Qi Li and Jufeng Dai</i>	
Design and Performance Evaluation of Feedforward Timing Estimator for M-PSK Signals	625
<i>Chaoxing Yan, Hua Wang, Jingming Kuang and Nan Wu</i>	
The Application of LDPC Code in Underwater Acoustic Wireless Communications	629
<i>Yuxiang Li, Guolong Liang, Guangpu Zhang and Jin Fu</i>	
Uniform All-Integer Quantization for Irregular LDPC Decoder	632
<i>Xiaojun Zhang, Yinghong Tian, Jianming Cui, Hua Yang and Zongsheng Lai</i>	
Cross Layer Combining of Coded Cooperation and Truncated ARQ/FEC in Wireless Systems	636
<i>Zhenhong Shao, Yi Wu, Wenfeng Li and Lianfeng Shen</i>	
Improved Iteratively Detected Receiver for SCCPM System over ISI channels	640
<i>Wusheng Zhao, Yongqing Fu, Yulei Jiang and Zhixue Han</i>	
A Mnemonic Multiuser Detector Based on Genetic Algorithm in Multicode LAS-CDMA System	644
<i>Hancheng Liao</i>	
Temporal Segmentation Based on Video Coding	648
<i>Weiping Luo and Yurong Wu</i>	
Noise Analysis for a New Digital Beamformer On-Receive-Only	652
<i>Sheng Hong, Dongkai Yang, Kefei Liu, Shuliang Gao, Huagang Xiong and Qishan Zhang</i>	
Designing a Differential Frequency Hopping System with Hop Variable Frequency Transition Function	656
<i>Binhong Dong, Shaoqian Li and Fengqi Shi</i>	
Cooperative Transmission Utilizing High Order Superposition Modulation with Iterative Detection	660
<i>Shuang Huan, Zesong Fei, Li Huang and Jingming Kuang</i>	
Phase Compensation for Uplink Distributed Space-Time Cooperative Protocol	665
<i>Feifei Wang, Yuanan Liu, Xiaofeng Lin and Gang Xie</i>	
Performance Analysis of Different Puncturing Schemes for Rate Compatible Block-Type LDPC	669
<i>Meng Zheng, Zesong Fei, Jingming Kuang, Xiang Chen and Wei Sun</i>	
Refined Spatial Error Concealment with Directional Entropy	674
<i>Xuefeng Zhan and Xiuchang Zhu</i>	
EXIT Trajectories of Irregular LDPC Codes	678
<i>He Zheng, Huaying Zhou and Jiongyi Yi</i>	
Modified Automatic Modulation Recognition Algorithm	682
<i>Jie Yang, Xumeng Wang and Hongli Wu</i>	
Widely Linear Momentum Linearly Constrained CMA for CDMA Blind Multiuser Detection	686
<i>Guimei Li and Yuanjian Zhou</i>	
PN Code Sequence Estimation Based on SOM Neural Network	689
<i>Chenglin Zhao and Erhuang Cao</i>	
A Novel Content-Based Video Coding Scheme for Robust Video Transmission over Ad Hoc Networks	693
<i>Shengrong Gong, Jun Yang and Shukui Zhang</i>	

Relaying Scheme Based on IDMA for MIMO Relay Networks	698
<i>Bin Zhang, Kai Niu and Zhiqiang He</i>	
An Accelerated Soft-Output Sphere Decoding Algorithm for MIMO System.....	702
<i>Chun-ping Yang and Xin Jin</i>	
ICM: A Novel Coding-Aware Metric for Multi-Hop Wireless Routing.....	707
<i>Yifei Lu, Cheng Shen, Qin Xia and Jun Tao</i>	
Design and Simulation of Control Algorithms for WINCS	711
<i>Jing-qi Fu, Cai-xian Xu, Bao-dong Kan and Hai-kuan Wang</i>	
Performance of LDPC Codes for Satellite Communication in Ka Band	715
<i>Xinyu Da, Yanling Wang and Tiecheng Xie</i>	
Symbol Synchronization Capture Method on SFH-GMSK — PART II: The Capture Method	719
<i>Zhongying Liu, Yuequn Wang and Hangsheng Zhao</i>	
Symbol Synchronization Capture Method on SFH-GMSK — PART I: Signal Analysis	723
<i>Zhongying Liu and Fuqiang Yao</i>	
Space-Time Coding over Rayleigh Fast Fading Channels Using Unitary Matrices	727
<i>Manous Nehzat, Babak Seyfe and Soroush Akhlaghi</i>	
A Network-Coding Method to Improve the Performance of Opportunistic Networks	731
<i>Kefeng Fan, Jinhuai Guo, Zhao Feng Ma, Yixian Yang and Xinxin Niu</i>	
Novel Construction of Distinct Perfect Polyphase Sequences with Large Family Size	734
<i>Fanxin Zeng and Zhenyu Zhang</i>	
Research of Communication Signal Modulation Scheme Recognition Based on One-Class SVM Bayesian Algorithm	739
<i>Zhendong Yin</i>	
Spectral Entropy Based Primary User Detection in Cognitive Radio	743
<i>Hongxing Xia, Guoping Zhang and Yaoming Ding</i>	
Reed-Solomon Codec for a Reconfigurable Baseband Processing Platform	747
<i>Qingqing Yang, Xiaofang Zhou and Gerald E. Sobelman</i>	
Study on Wireless Detection in Condition of Evaporation Duct	751
<i>Bin Tian, Hao Cha, Jie Li and Mo Zhou</i>	
A Code-Aided Soft Frame Synchronization Algorithm for Quasi-Cyclic LDPC Coded System	755
<i>Zhixiong Chen and Jinsha Yuan</i>	
Design of Flexible Anti-Imaging Filter Based on Polynomial	759
<i>Jianbiao He, Qunqun Zhou and Hongyuan Wang</i>	
Adaptive Detection of an Unknown FH Signal Based on Image Features	762
<i>Sheng-en Luo and Lai-yuan Luo</i>	
A Real-Time Channel Evaluation Technique for AFH/MSK Based on SNR Estimation and Prediction.....	766
<i>Desheng Zhang, Chenxi Yue and Jianping An</i>	
The Rate-Compatible Multi-Edge Type LDPC Codes with Short Block Length	770
<i>Ying You, Min Xiao and Lin Wang</i>	
Performance Analysis of LDPC Codes over Shallow Water Acoustic Channels	774
<i>Yougan Chen, Xiaomei Xu and Lan Zhang</i>	
Performance Analysis of PN Code Acquisition Using Fast Fourier Transform	778
<i>Ping Huang and Bing-Fa Zu</i>	
A CME Based Channel Estimation Approach for MIMO-OFDM Systems	783
<i>Zhen Lu, Anthony Kadi and Tim Aubrey</i>	
A Modified Blind MUD Algorithm in the Cooperation Network	787
<i>Xianglun Kong, Shixiang Shao, Longxiang Yang and Hongbo Zhu</i>	
A New Constellation Rearrangement without Signaling for IR-HARQ in the IMT-Advanced System	791
<i>Jun Xu and Jin Xu</i>	
A Joint Diagonalization Separation Approach to Physical-Layer Network Coding over Wireless Fading Channel	795
<i>Hanghong Yu, Bing Du, Fuxiang Wang and Jun Zhang</i>	
The Implementation and Optimization of TD-SCDMA Joint Detection and Decoding.....	799
<i>Huayu Zhou, Qin Zhang and Hui Tang</i>	
A Novel UEP Algorithm Based on Error Resilient Arithmetic Code.....	803
<i>Ying-xin Yu and Gang Wang</i>	
Research on Generalized Pseudorandom Punctured Binary Array Pairs Theory	806
<i>Qi Li, Junping Gao and Xiaoqun Zhao</i>	
Periodic Correlation Bounds of Binary Sequence Pairs	810
<i>Qi Li, Junping Gao and Xiaoqun Zhao</i>	
Realization of Deblocking Filter in FPGA: Based on the Compression Standard of H.264 Coding	813
<i>Wenfei Wang and Ning Han</i>	
From Prime Codes to “A New Construction of Frequency-Hopping Codes”	817
<i>Qingge Liu, Dongkai Yang and Shanwei Lü</i>	
Evaluation of QO-STBC Schemes for Four Transmit Antennas	821
<i>Pingping Shang, Unhee Park and Sooyoung Kim</i>	
Hardware Designing for ABS-S Modulator	825
<i>Yuhai Shi, Zhiyong Wu and Ming Yang</i>	
An Improved Histogram Method for Calculating Extrinsic Information Transfer Functions	829
<i>Lin Chen and Da-zheng Feng</i>	

Modulation Recognition of Multi-Signals Via Multi-Resolution Approach	832
<i>Bo Zhu, Qun Wan and Rong Shi</i>	
A New Parameter Estimation Method of Linear Frequency Modulation Signal.....	837
<i>Feng Zheng, Muqing Wu and Huixin Lu</i>	
The Research of Security-Mode Based on Cohen-Sutherland Encoding	841
<i>Hongjun Li and Danying Zuo</i>	
Transmission over Single Mode Fiber Link with Convolutional Encoding.....	845
<i>Zhongpeng Wang and Fangni Chen</i>	
Accelerated Q-Ary Low-Density Parity-Check Codes Decoding with Message Selection	848
<i>X. H. Shen and F. C. M. Lau</i>	
Hybrid ARQ System Using the Double Layer Coding	852
<i>Chulseung Kim, Minhyuk Kim, Taedoo Park, Namsoo Kim and Jiwon Jung</i>	
Research on Channel Estimating Algorithm in CMMB System under Complex Environment	856
<i>Ming Yan, Guoche Qin, Guorong Hu and Jia Wang</i>	
The Implementation of 16QAM Modulation and Demodulation and Performance Comparison	860
<i>Mingxin Tan, Lanlan Zhang and Shuren He</i>	
Dynamic Schedules Based on Variable Nodes Residual for LDPC Codes	864
<i>Guo-jun Han and Xing-cheng Liu</i>	
Algorithm-Architecture Co-Optimization of Bit-Loading Algorithm for Delay Constrained Adaptive Wireless Systems.....	867
<i>Asad Mahmood</i>	

SESSION 3 – MIMO AND OFDM

Analysis on Codebook Based Precoding and Eigen Based Beamforming in UTRAN LTE.....	871
<i>Chunchang Tian, Yafeng Wang, Wenqian Yang, Liang Fang and Zhijie Wang</i>	
Windowed DFT-Based OFDM Channel Estimation by Adding Virtual Channel Frequency Response	875
<i>Hao-Han Hsu, Chih-Wei Chen and Gene C. H. Chuang</i>	
Low Complexity General Antenna Selection Algorithm for MU-MIMO-BC Systems	880
<i>Tiezheng Cheng and Chaowei Yuan</i>	
A Simple Codebook Design Algorithm for MISO Channels with Channel Estimation Errors.....	885
<i>Ding Lv, Bin Jiang and Xiqi Gao</i>	
A QoS-Aware Resource Allocation Scheme with Limited Feedback in Downlink OFDMA Systems	889
<i>Yongxu Xue, Changchuan Yin, Guangxin Yue and Danpu Liu</i>	
A Novel OFDM Interpolation Algorithm Based on Comb-Type Pilot	893
<i>Chunlong He, Zhenming Peng, Qi Zeng and Ying Zeng</i>	
Decision-Directed Channel Estimation for MIMO-OFDM Systems	897
<i>Xiaoqiang Qiao, Hangsheng Zhao, Zhigang Han and Yun Sun</i>	
Look-Up-Table Predistortion Technique Based on Polynomial Nonlinearity Compensation in OFDM Systems	901
<i>Minjie Gong, Jianqiao Yu and Liang He</i>	
Performance Study of RSS ML Detection with Imperfect Channel and Noise Estimates	905
<i>Rongrong Qian, Tao Peng, Yuan Qi and Wenbo Wang</i>	
SFBC and ICI Cancellation Method Comparison in the MISO DFT-Spread OFDM System with Frequency Offset and Phase Noise	909
<i>Yingshan Li, Heung-Gyoon Ryu, Dongyan Sun, Haiyuan Liu, Zhiming Zhang and Ming Shi</i>	
A Novel Channel Estimation Scheme for Wideband OFDM Aeronautical Communication	913
<i>Xiangyuan Bu, Wei Xie and Ronghua Zhou</i>	
A New Sampling Clock Synchronization Method in OFDM System.....	917
<i>Lei Wang and Dazhuan Xu</i>	
An Improved SLM Method Based on Chaotic Phase Sequences	921
<i>Liang-rui Tang, Lin-yang Li and Qin Zhang</i>	
A Blind CFO Estimation Algorithm for OFDMA Based on ESPRIT Algorithm	925
<i>Anding Wang, Yuyang Qiu, Xiuping Wang and Lili Lin</i>	
A Simplified Soft-Output QRD-M MIMO Detector.....	929
<i>Haifang Jian, Yong Yi and Yin Shi</i>	
Performance Analysis of MIMO Ad Hoc Networks with Finite Rate Feedback and Imperfect CSIT	933
<i>G. Ananthi, P. Kavitha, K. Ulagammal and S. J. Thiruvengadam</i>	
A Simple and Accurate Approximation to the SEP of MIMO-MRC Systems with Channel Estimation Error in the Presence of Cochannel Interferences	937
<i>Guangqiu Li and Jianrun Ge</i>	
ICI Analysis of MIMO-OFDM Systems with Independent Phase Noise at Both Transmit and Receive Antennas	941
<i>Peng Xu, Yuanzhang Xiao, Shidong Zhou and Ming Zhao</i>	
Blind MIMO-OFDM Channel Estimation Based on ICA and KRLS Algorithm	945
<i>Haiyuan Liu and Jiancheng Sun</i>	
Low Complexity Antenna Selection for MIMO-OFDMA Downlink Scenario	950
<i>Yinglei Teng, Mei Song, Ruizhe Yang, Junde Song and Yong Zhang</i>	
Improved Channel Estimation for PC-Based Software Radio DVB-T Receiver	954
<i>Shu-Ming Tseng, Yan-Ting Li and Yueh-Teng Hsu</i>	

Resource Allocation for Power-Line OFDM System Based on Genetic Algorithm	958
<i>Huangqiang Li and Yunlian Sun</i>	
Adaptive Power Allocation for Decode-and-Forward MIMO-OFDM Relay System	962
<i>Ting Li, Hua Yu and Shouyin Liu</i>	
Effect of Space-Time Correlation on the Capacity in MIMO-OFDM Channel	966
<i>Yonghua Li, Lin Zhang, Dong Liang and Tiejun Lv</i>	
Space-Time Blind Equalization under α-Stable Noise Environment	970
<i>Sen Li</i>	
MIMO-OFDM Synchronization Algorithm Based on Three-Dimensional Chaotic System	974
<i>Liangrui Tang, Qi Zuo and Yi Sun</i>	
A Novel PAPR Reduction Technique by Sampling Partial Transmit Sequences	978
<i>Jing Zhang, Yuzhong Jiao, Xin'an Wang, Ying Xu, Xuejiao Liu and Xuewen Ni</i>	
Feedback Reduction Based on Clustering in MIMO-OFDM Beamforming Systems	981
<i>Min Wu, Chao Shen and Zhengding Qiu</i>	
A Particle Filter for Frequency Synchronization in MIMO-OFDM Systems	985
<i>Jing Zhang, Han-wen Luo, Rong-hong Jin and Jing Zhang</i>	
An Improved Max-Log-MAP Decoding Algorithm for UST Symbol-Based Turbo Code	989
<i>Lina Zheng, Ju Liu, Dapeng Zhang and Hui Ji</i>	
Differential Unitary Space-Time Symbol-Based Turbo Code	993
<i>Dapeng Zhang, Ju Liu, Hui Ji and Xuefeng Ding</i>	
Performance Analysis of IRA Codes for Underwater Acoustic OFDM Communication System	997
<i>Lan Zhang, Xiaomei Xu, Haixin Sun and Yougan Chen</i>	
Approximate Analysis of Power Offset Based on Tri-Diagonal Toeplitz Matrix	1001
<i>Guangwei Yu, Zhiqiang He, Xuzhen Wang, Kai Niu and Jiaru Lin</i>	
A Low Complexity PTS Phase Coefficient Searching Algorithm for OFDM System	1005
<i>Lei Li, Qin Wang, Cheng Youn Lu and Li Li</i>	
Uplink Multi-Cell Non-Cooperative Power Allocation Game Algorithm for OFDMA Cellular Networks	1009
<i>Tiankui Zhang, Chunyan Feng, Geng Su and Lin Xiao</i>	
Research and Implementation of Real-Time Image Transmission Technique Based on OFDM	1013
<i>Zhaohui Liu, Kaiming Xu and Xiangyuan Bu</i>	
Reduced-Rank Equalization of Unitary Multistage Wiener Filter Based on Rectangle Blocking Matrix for Multiple Input Multiple Output	1017
<i>Rui Wang, Pinyi Ren and Wenshan Yin</i>	
Development of a DSP&FPGA Based Real Time MIMO Prototyping Testbed	1022
<i>Jian Sun, Lixiang Wei, Xu Du and Dongfeng Yuan</i>	
Improvement on the Synchronization Algorithm for OFDM	1026
<i>Ming Li, Jian Chen and Yonghong Kuo</i>	
Transmit Antenna Selection Strategies in Correlated Fading MIMO Channels	1030
<i>Jun Wang, Hong Chen, Shaoping Deng and Zhoushi Yao</i>	
OFDM Blind Signal Detection Using the Signal Probability Information	1033
<i>Chengzhi Fang, Liya Huang and Ying Zhang</i>	
The MMSE Channel Estimation Based on DFT for OFDM System	1037
<i>Jie Ma, Hua Yu and Shouyin Liu</i>	
An Analysis of Scheduling and Feedback for Multiuser MIMO Systems	1041
<i>Tao Huang, Zhijiang Zhang, Ruizhe Yang and Chaowei Yuan</i>	
Relation between Beamforming and Diversity in MIMO System: A Capacity Perspective	1045
<i>Yonghua Li, Lin Zhang, Dong Liang and Tiejun Lv</i>	
Least Square Channel Estimation for MIMO-OFDM System	1049
<i>Xin Lu, Yunting Lu, Jun Xu and Guangming Lin</i>	
Single Antenna Spatial Diversity	1053
<i>Shuang Zhao, Hongwen Yang and Hongkui Yang</i>	
Effects of Quantization on Channel-Orthogonalized STBCs with Different Orthogonalization Schemes	1057
<i>Yanling Jin, Runhe Qiu and Lifeng Zhou</i>	
Iterative Channel Estimation Using Superimposed Pilot for BICM-OFDM	1063
<i>Yongzhi Yu, Xingzhou Zhang and Zhongmin Zhang</i>	
Predictive Resource Allocation for Multicast OFDM Systems	1068
<i>Bo Wu, Jun Shen and Haige Xiang</i>	
A Fast Encoding Algorithm for a MIMO System with Finite-Bit Feedback	1073
<i>Haiquan Wang and Zhijin Zhao</i>	
On Capacity of MIMO Fading Channels with Finite-Size Constellation	1077
<i>Ke Xiao, Shujun Guo and Mingchao Su</i>	
An Improved Joint Synchronization and Channel Estimation Algorithm for MIMO-OFDM System	1081
<i>Yun Li, Shiju Li and Zhiqiang Yi</i>	
Transmit Beamforming for Quasi-Orthogonal Space-Time Coded System in Rayleigh Fading Environments	1086
<i>Qin Tao, Chao Luo and Ping'an Li</i>	
Joint VBLAST/STBC Assisted MC DS/CDMA System with Multiuser Detection	1090
<i>Prabaagarane Nagaradjane, Arvind Sai Sarathi Vasan, Lakshmi Krishnan and Anand Venkataswamy</i>	
A New Resource Allocation Algorithm for Single-User OFDM Systems	1094
<i>Weixiao Meng, Yang Lu, Sha Wang and Yan Li</i>	

Low Computational Algorithm for Space Time Coded System with LDPC codes	1098
<i>Taedoo Park, Minhyuk Kim, Namsoo Kim, Chulseong Kim and Jiwon Jung</i>	
A Novel MAP Estimation Algorithm for Multiple Frequency Offsets in Distributed MIMO System	1102
<i>Qiang Wang, Xia Lei, Jian Du, Yuan Tian, Yue Xiao and Shao-Qian Li</i>	
Analysis on Effective SNR Loss of Space-Time Block Coded MIMO System with Channel Estimation Error	1106
<i>Chun Wang and Lin-rang Zhang</i>	
Blind Channel Estimation of MIMO-OFDM Based on FDPM	1110
<i>Gang Wang, Ming Zhu and Hua Cai</i>	
Error Vector Magnitude Measurement Accuracy and Impact on Spectrum Flatness Behavior for OFDM-Based WiMAX and LTE Systems	1114
<i>Bjoern Dusza, Kai Daniel and Christian Wietfeld</i>	
Performance of Training-Based Channel Estimation Methods in a MIMO System Employing Uniform Circular or Linear Array Antennas	1118
<i>Xia Liu, Marek E. Bialkowski, Feng Wang and Jiong Shi</i>	
Investigations into the Relationship between MIMO Channel Estimation and Channel Effective Degree of Freedom	1122
<i>Xia Liu, Feng Wang and Marek E. Bialkowski</i>	
Peak-to-Average Power Ratio Reduction by Combining Selective Mapping and Golay Complementary Sequences	1126
<i>Hamidreza Bakhshi and Mohammadamin Shirvani</i>	
Lower Bound of SNR Fall Caused by ICI Based on All Phase OFDM Systems	1130
<i>Rehua Ge and Shanlin Sun</i>	
Distortion-Compensation Scheme for PAPR Reduction of OFDM Signals	1134
<i>Yongpeng Wu, Wenjing Wang and Xiqi Gao</i>	
A Multiple Carrier Scheme for Chaos-Based Digital Communication Systems	1137
<i>Liya Ding and Yonghong Hou</i>	
Joint Optimization for PAPR Reduction and Opportunistic Beamforming (OBF) in OFDM Systems	1141
<i>Yanfei Liu, Lei Zhang and Guangyue Lu</i>	
Robust Uplink Carrier Frequency Offset Estimation in MIMO-OFDM Systems	1145
<i>Ze-fu Tan and Guo-ping Lei</i>	
Analysis and Optimization of Non-Sequential IPTS	1151
<i>Yuzhong Jiao, Xin'an Wang, Xuewen Ni, Ying Xu and Xuejiao Liu</i>	
Enhanced Selected Mapping Via Candidates Combination for PAPR Reduction in OFDM	1155
<i>Yanfei Liu and Guangyue Lu</i>	
PTS Using Optimized Phase Vectors for PAPR Reduction of OFDM Signals	1159
<i>Lei Chen, Jun Guo, Jihua Lu and Binbin Xu</i>	
Research on Acoustic Three-User Communication Based on Single Vector Sensor	1163
<i>Dayu Wang, Anbang Zhao, Junying Hui, Xu Li, Xiuqiang Hao and Yang Chen</i>	
Adaptive MIMO-OFDM System Based on QO-STBC/SFBC with Improved Feedback Scheme	1167
<i>Yanling Jin, Runhe Qiu and Lifeng Zhou</i>	
Recursive MMSE Channel Estimation for MIMO-OFDM Systems	1172
<i>Jing Zhang, Han-wen Luo, Rong-hong Jin and Jing Zhang</i>	
Performance Analysis of MIMO MRC Systems	1176
<i>Xinbo Qu, Zheng Wan, Hongwei Liu and Min Li</i>	
Capacity of MIMO-OFDM System with Multi-Path Fading Channel	1180
<i>Junxuan Wang, Yanyan Zhang and Guangyue Lu</i>	
Ant-Colony-Based Resource Allocation in OFDMA MESH Network	1183
<i>Zhaowen Huang, Suili Feng, Wu Ye and Hongcheng Zhuang</i>	
A Low Complexity Post-Processing SNR Estimator for Non-Linear Receiver in MIMO Systems	1188
<i>Qiang Li, Yuchun Wu and Zhenxing Gao</i>	
Estimation and Compensation of Frequency-Dependent I/Q Imbalances in OFDM Systems over Fading Channels	1193
<i>Shichuan Ma, Deborah Duran and Yaoqing (Lamar) Yang</i>	
An Improved Low-Feedback Scheduling Scheme in MU-MIMO	1197
<i>Peizhong Xie and Baoyu Zheng</i>	
Analytical Results of V-BLAST MIMO Systems with Two Transmit Antennas over Correlated Rayleigh Channels	1201
<i>Rongtao Xu, Zhangdui Zhong and Jiann-Mou Chen</i>	
Limited Feedback Open Loop Precoding in the Downlink Relay Multiuser MIMO System	1206
<i>Junwei Li and Daoben Li</i>	
Iterative MMSE Precoding for MIMO Interference Channel	1210
<i>Xuzhen Wang, Kai Niu, Guangwei Yu and Zhiqiang He</i>	
A Novel Adaptive Beamforming Algorithm for Aeronautical Communications	1214
<i>Xiangyuan Bu, Kaiming Xu and Yao Lu</i>	
A Scheme of Cyclic Delay Diversity Based Precoding for Downlink MIMO System	1218
<i>Jie Meng and Min Shen</i>	
Throughput-Optimal Scheduling for Downlink Zero-Forcing SDMA Systems	1222
<i>Wei Huang, Feng-shan Bai, Yan-jie Zhao and Kai Sun</i>	
Analysis of Antenna Mutual Coupling in the X-Type Polarization Diversity System	1226
<i>Jing Zhao, Yueheng Li and Guishuang Sun</i>	
Improved Frequency Domain Differential Demodulation for Fast Fading HF Channels	1230
<i>Ke Li, Chunping Hou, Jinlin Fu, Chungui Liu and Jianjun Lei</i>	

The Physical Layer Design for MIMO Wireless Communications System	1235
<i>Tao Liang and Wen-long Li</i>	
An Accurate Expression of Capacity for Multi-User MIMO Systems with Zero-Forcing Receiver	1239
<i>Tiezheng Cheng and Chaowei Yuan</i>	
A Low Area Pipelined FFT Processor for OFDM-Based Systems.....	1243
<i>Qihui Zhang and Nan Meng</i>	
A High-Efficient DM642-Based FFT Structure for OFDM.....	1247
<i>Lin Zhu and Tian-shu Huang</i>	
Cooperative Diversity with Partially Cooperative Relays	1250
<i>Weihua Deng and Xiqi Gao</i>	
MRC Detection over SIMO OFDM Systems in the Presence of Phase Noise.....	1254
<i>M. Roustaei and B. Seyfe</i>	
Investigation into SVD Based Beamforming over Rician MIMO Channels.....	1258
<i>Feng Wang, Xia Liu and Marek E. Bialkowski</i>	
An Improved Channel Estimation Algorithm for OFDM Systems with Virtual Carriers	1262
<i>Jiandong Li, Yang Zhang, Lihua Pang and Chuan Li</i>	
A Joint TX-RX User Scheduling Scheme for Multiuser MIMO Systems	1267
<i>Liang Fang, Maofan Yang, Ping Gong and Weiling Wu</i>	
MIMO Spatial Multiplexing Systems with Uplink Pilot and LDPC Codec	1272
<i>Yang Xiao, Jingli Liu, Huajing Yin and Kiseon Kim</i>	
A Novel ICI Self-Cancellation Scheme for OFDM Systems	1277
<i>Qiang Shi, Yong Fang and Min Wang</i>	
Performance Study for STC-OFDM Systems Based on IEEE802.11a Standard.....	1281
<i>Yun Li, Jie Zhou and Yoshikuni Onozato</i>	
Cross-Layer Design of MIMO OFDM with Mode Switching and Hybrid ARQ	1285
<i>Xiumei Yang, Yong Xiong and Wei Zhao</i>	
Study on Performance of Coded OFDM-CDM under Unknown Interference	1289
<i>Wei Liu, Chun-yang Zhang and Jiang-tao Fu</i>	
Iterative Channel Estimation Algorithm for OFDM Systems with Bit-Interleaving	1293
<i>Chi Zhang, Lili Guo and Zhongmin Zhang</i>	
Adaptive Codebook Selection for Limited Feedback MIMO Beamforming Systems	1297
<i>WeiBin Li, Tingchang Wang and Xiufeng Lan</i>	
Distributed Beamforming with Limited Feedback in Regenerative Cooperative Networks	1301
<i>Lei Wang, Chao Zhang, Jun Zhang and Guo Wei</i>	
Variable Step-Size Semi-Blind Channel Estimation for MIMO-OFDM Based on Particle Filtering	1305
<i>Hua Cai and Xiao-hui Zhao</i>	
The OFDM Underwater Communication Frequency Equalization Based on LMS Algorithm and Pilot Sequence	1310
<i>Xuefei Ma, Gang Qiao and Chunhui Zhao</i>	
Performance Analysis on Compact MIMO Antenna Arrays Based on Network Theory.....	1314
<i>Jing Zhang and Hong bo Zhu</i>	
The Effect of Mutual Coupling on Capacity of 4-Element Squared Antenna Array MIMO Systems	1319
<i>Jing Zhao, Yueheng Li and Guishuang Sun</i>	
Antenna Pattern Effects on the Capacity of Multielement Antenna System.....	1323
<i>Yuanzhi Jia, Yan Zhang, Xinwei Hu, Shidong Zhou and Jing Wang</i>	
Time Domain Channel Estimation Based on Power Roll-Off Strategy and Kalman Algorithm for MIMO-OFDM in WLAN.....	1327
<i>Yunfeng Liu, Shumin Chen, Yuanxin Xu, Yang Wang and Chuangang Wang</i>	
Performances of Detection Algorithms for MIMO-OFDM Systems with Frequency Offset	1331
<i>Zhongpeng Wang</i>	
Performance of Suboptimal Cooperative Opportunity Scheduling Strategy on Cell-MIMO System.....	1335
<i>YongHui Chen, Desheng Wang, Di Gao, Funian Li and Jinsong Zhou</i>	
Research on Different-Based Systems of MCM	1339
<i>Fei Du, Weichao Wang and QiJian Xu</i>	
A Hybrid ZF and QR Receiver for MIMO-OFDM Systems	1343
<i>Zhongpeng Wang and Fangni Chen</i>	
An Adaptable Digital Predistorter for COFDM Signal Implemented by Dual Ram.....	1347
<i>Shu-hui Yang and Jun Wang</i>	
A Reduced Dimension VBLAST Detection Algorithm with Approximating Maximum Likelihood Performance	1352
<i>Wenchi Cheng and Hailin Zhang</i>	
An Inter-carrier Interference Cancellation Technique Based on SSC-ASIF Scheme in OFDM Systems.....	1356
<i>Li Zhao</i>	
A Fair Cross-Layer Resource Allocation Scheme with Diverse QoS Guaranteeing.....	1361
<i>Rui Chen, Wei Liu, Jiandong Li, Chuan Li and Jian Li</i>	
A Low-Complex Virtual Sub-Carrier Reservation Algorithm for PAPR Reduction	1366
<i>Xu Li, Fuyan Li, Biwen Ji, Daocang Yao and Zhangdui Zhong</i>	
Efficient Power Allocation for OFDM with Imperfect Channel State Information	1370
<i>Chunhui Liu, Anke Schmeink and Rudolf Mathar</i>	
Study on Joint Timing and Frequency Synchronization for OFDM System.....	1374
<i>Aihua Wang, ShuZhi Gou and Bin Xue</i>	

Full Rate General Complex Orthogonal Space-Time Block Code for 4-Transmit Antenna	1378
<i>Mohammad Ashraf Islam Jewel and Miftahur Rahman</i>	
Kalman-Filter Channel Estimator Based on Pilot Signal for WiMAX in Time and Frequency-Selective Fading Environment.....	1382
<i>Hui-yu Zhao and Chang-peng Ji</i>	

SESSION 4 – COGNITIVE RADIO

Cooperative Spectrum Sensing with Double Threshold Detection Based on Reputation in Cognitive Radio.....	1386
<i>Lili Duan, Lei Zhang, Yujun Chu and Shouyin Liu</i>	
An Enhanced Energy Detection Algorithm in Cognitive Radio.....	1390
<i>Junwei Hao and Yunxiao Zu</i>	
A Setting Method and Performance Evaluation of Adaptive Sensing Threshold Based on Power Detection of the Primary User.....	1394
<i>Dan Ye and Yi-ming Wang</i>	
Very Low Complexity Variable Resolution Filter Banks for Spectrum Sensing in Cognitive Radios Using Multi-Stage Coefficient Decimation	1398
<i>Mengda Lin, A. P. Vinod and Chong Meng Samson See</i>	
A Novel Spectrum Sharing Algorithm Based on the Throughput in Cognitive Radio Networks	1402
<i>Wei Wang, Tiejun Lv, Zhiyuan Ren, Long Gao and Weidong Liu</i>	
Spectrum Sensing Opportunities in Cognitive Radios	1406
<i>Nawaf Hadhal Kamil, Deah J. Kadhim, Wei Liu and Wenqing Cheng</i>	
Chaotic Characteristic Based Sensing for Cognitive Radio.....	1410
<i>Junrong Gu, Sung Hwan Sohn, Jae Moun Kim and Minglu Jin</i>	
Half-Voting Based Twice-Cooperative Spectrum Sensing in Cognitive Radio Networks.....	1414
<i>Ling Li, Yin Lu and Hongbo Zhu</i>	
Cooperative Spectrum Sensing in OFDM Based on MIMO Cognitive Radio Sensor Networks	1417
<i>Wei Ma, Sen Zhe Hu, Yan Cong Wang and Liang Zhu</i>	
Interference Temperature Estimation in OFDM Based on the Directions of Arrival Sources	1421
<i>Wei Ma, Mu Qing Wu, Chun Xiu Xu and Li Yang</i>	
Cognitive Ultra-Wideband Radio Based on Adaptive Spectrum Allocation and Rake Receiver	1425
<i>Wentao Cui, Cao Hai and Xiangyang Li</i>	
Joint Design of Frequency and Power Adaptation in FHSS Systems Based on Cognitive Radio	1429
<i>Jianzhong Chen, Yingtao Niu and Fuqiang Yao</i>	
Research on a Novel Interconnect Technology for B3G System	1433
<i>Yuewei Lin and Miao Lu</i>	
On Flow Management for Future Multi-Hop Mobile Radio Networks	1437
<i>Arif Otyakmaz, Daniel Buelmann, Rainer Schoenen and Ismail Durmaz</i>	
Advanced Graph-Coloring Spectrum Allocation Algorithm for Cognitive Radio	1443
<i>Jian-wu Zhang, Qi Zhao and Jing-yuan Zou</i>	
Dynamic Threshold Based Spectrum Detection in Cognitive Radio Systems	1447
<i>Gui-cai Yu, Yu-bin Shao, Hua Long and Guang-xin Yue</i>	
A Cooperative Double-Threshold Energy Detection Algorithm in Cognitive Radio Systems.....	1451
<i>Jinbo Wu, Tao Luo, Jianfeng Li and Guangxin Yue</i>	
Cooperative MIMO Spectrum Sensing Using Free Probability Theory	1455
<i>Lei Wang, Baoyu Zheng, Jingwu Cui and Qingmin Meng</i>	
Adaptive Beamforming Based on Subspace Theory in Cognitive Networks.....	1459
<i>Wei Xi, Changchuan Yin, Danpu Liu and Guangxin Yue</i>	
Comb-Type Pilot Aided Channel Estimation in Non-Contiguous OFDM Systems for Cognitive Radio	1463
<i>Jinnan Liu, Shulan Feng and Haiguang Wang</i>	
Multi-Node Spectrum Detection Based on the Credibility in Cognitive Radio System.....	1467
<i>Yi-bing Li, Xing Liu and Wei Meng</i>	
Power Allocation for Cognitive Radio Systems Based on Nonregenerative OFDM Relay Transmission.....	1471
<i>Shengnan Yan and Xiaoxiang Wang</i>	
Cooperation Spectrum Sensing Using Optimal Joint Detecting	1475
<i>Deah J. Kadhim, Wei Liu and Wenqing Cheng</i>	
Design and Simulation for a Reformative Transform Domain Communication System	1479
<i>Jin-shi Xiong, Qing-hua Ren, Zheng-gang Li and Yun-jiang Liu</i>	
The Flow of Software Defined Radio Waveform Development Based on SCARI	1483
<i>Jianxin Guan, Xiaohui Ye, Jun Gao and Bo Wang</i>	
The Performance Analysis of Spectrum Sensing Algorithms Based on Wavelet Edge Detection.....	1487
<i>Yun-Lin Xu, Hong-Shun Zhang and Zhao-Hui Han</i>	
A New Frequency Spectrum Sensing Approach Based on Spatial Spectrum Estimation in OFDM System.....	1491
<i>Guan Nan Li, Wei Li, Song Xue and Ning Zhang</i>	
An Enhanced Method for the Quiet Period Synchronization of IEEE 802.22-Based Networks	1495
<i>Haiguang Wang, Shulan Feng, Jinnan Liu and Philipp Zhang</i>	
An Emission Strategy of Cognitive Radio-Ultra Wideband Based on Interference Temperature Model	1499
<i>Shubin Wang, Zheng Zhou and Kyungsup Kwak</i>	

PSO-Based OFDM Adaptive Power and Bit Allocation for Multiuser Cognitive Radio System.....	1503
<i>Shiquan Xu, Qinyu Zhang and Wei Lin</i>	
Optimized Signal to Noise Ratio Threshold Based on Transmission Power and Complexity of Cognitive Detector	1507
<i>Jingmin Tang, Tao Luo, Jinbo Wu, Jianfeng Li and Guangxin Yue</i>	
Energy Detection for Spectrum Sensing in Cognitive Radio Sensor Network over Fading Channels	1511
<i>Fuping Hu and Shu Wang</i>	
An Improved Guard Channel Algorithm in Cognitive Radio System	1515
<i>Lili Cai and Qi Zhu</i>	
Anderson-Darling Sensing of Existence of Unknown Signals in a Fading Channel	1519
<i>Haiquan Wang and Wei Zhang</i>	
Analysis of Square-Law Combining for Cognitive Radios over Nakagami Channels.....	1523
<i>Yunxue Liu, Dongfeng Yuan, Mingyan Jiang, Wenqiang Fan, Gang Jin and Fen Li</i>	
An Interference Mitigated and Power Efficient Adaptive Beamforming Algorithm in Cognitive Radio	1527
<i>Zhili Zhuang, Sunghwan Sohn, Junrong Gu and Jaemoung Kim</i>	
Evolutionary Schemes for Cognitive Radio Adaptation	1532
<i>Muhammad Waheed and Anni Cai</i>	
Research Status and Development Trends of Cognitive Radio Technology	1537
<i>Haitao Wang and Hui Chen</i>	
A New Primary User Sensing Approach Based on LTE Wireless Sensor Networks.....	1541
<i>Guan Nan Li, Li Yang, Ning Zhang and Kai Cui</i>	
Study on Nonlinear Variable Period Spectrum Detection of Cognitive Radio.....	1545
<i>Zhijun Teng and Chunhui Zhao</i>	
A Novel Collaborative Spectrum Sensing Scheme Based on Covariance Matrix	1548
<i>Kejun Lei, Xi Yang, Shengliang Peng and Xiuying Cao</i>	
Dynamic Spectrum Access in Underlay Cognitive Radio System with SINR Constraints	1552
<i>Han Hu and Qi Zhu</i>	
A Novel Cooperative Spectrum Sensing Scheme Based on Channel-Usage in Cognitive Radio Networks	1556
<i>Jingqun Song, Huiying Cai and Zhiyong Feng</i>	
AEF Analysis of Central Limit Theory Approximation in Spectrum Sensing	1560
<i>Jiang Zhu, Benxiong Huang, Furong Wang, Bo Zhang and Wei Wu</i>	
Performance Analysis of Spectrum Sensing Using Diversity Technique	1564
<i>Qian Wang, Dian-wu Yue and Ying Wang</i>	
Research of Frequency Choosing Strategy on the Route for HF Air-Ground Communication Based on SNR.....	1569
<i>Gang Liu, Qing-hua Ren, Yun-jiang Liu and Wen Wu</i>	
Joint Power and Channel Allocation Based on Fair Sharing in Cognitive Radio System	1573
<i>Yuqing Lin and Qi Zhu</i>	
Cooperative Spectrum Sensing with Feedback.....	1577
<i>Ping Zhu, Jinglong Li and Xufa Wang</i>	
Opportunistic Dynamic Channel Allocation Based on Chain Store Game.....	1581
<i>Jinglong Li, Ping Zhu and Xufa Wang</i>	
Optimization and Scheduling of Spectrum Sensing Periods in Heterogeneous Wireless Networks	1585
<i>Jun Sun and Hongbo Zhu</i>	
A New Approach for PAPR Reduction of NC-OFDM System Based on Cognitive Radio	1590
<i>Jianhua Shao and Xin Liang</i>	
Evolutionary Game for Distributed Power Allocation over Cooperative Relay Networks	1594
<i>Jin Hu, Bo Wang, Jiao-long Wei and Shuang-lin Huang</i>	
A Novel Adaptive Ultra-Wideband Pulse Design Based on Cognitive Radio Theory	1598
<i>Liu-lei Zhou and Yi-ming Wang</i>	
Cognitive Detection Exploiting the Relation among Primary User's States	1602
<i>Shengliang Peng, Xi Yang, Shuli Shu and Xiuying Cao</i>	
Multiuser WiMAX Resource Allocation Algorithm Based on Cognitive Radio	1606
<i>Xue-feng Pan and Xian-zhong Xie</i>	
A Energy Prediction Based Spectrum Sensing Approach for Cognitive Radio Networks	1610
<i>Zhijian Lin, Xueyuan Jiang, Lianfen Huang and Yan Yao</i>	
Bit Error Rate of the Primary User in a Cognitive Relay Network over Rayleigh-Fading Channels	1614
<i>Jiajun Li, Jinbao Zhang and Zhenhui Tan</i>	
Outage Analysis of Cognitive Network	1618
<i>Qiuyan Liu and Zhangdui Zhong</i>	
Cognitive Radio Network Policy-Agile Autonomous Spectrum Management System Design Based on VSM Methodology	1622
<i>Fan Wang, Hangsheng Zhao and Fuqiang Yao</i>	
A Spectrum Allocation Algorithm Based on Matching Game	1626
<i>Chengquan An, Liang Zhang and Wenyan Liu</i>	
Active Interference Cancellation for Multiple Narrow-Band Primary Signals in Cognitive OFDM.....	1629
<i>Xu Zhang, Zhimin Zeng and Shengsen Wang</i>	
Polarization Spectrum Sensing Scheme for Cognitive Radios	1633
<i>Fangfang Liu, Chunyan Feng, Caili Guo, Yue Wang and Dong Wei</i>	
Adaptive Pulse Regulations to Achieve High Range Resolution within the Unambiguous Window	1637
<i>Bin Li, Shanguo Huang, Wanyi Gu and Yunxiao Zu</i>	

Cluster-Based Energy Efficient Cooperative Spectrum Sensing in Cognitive Radios	1641
<i>Wenfang Xia, Shu Wang, Wei Liu and Wenqing Chen</i>	
Architecture and Behavioral Model for Future Cognitive Heterogeneous Networks	1645
<i>Guangquan Chen, Yong Zhang, Mei Song, Yinglei Teng and Ruijun Feng</i>	
Spectrum Sensing Based on Covariance Matrix under Noise Uncertainty	1649
<i>Xi Yang, Shengliang Peng, Kejun Lei and Xiuying Cao</i>	
A Near Fair User Scheduling Scheme in Cognitive Radio Networks	1653
<i>Qingmin Meng, Wenhui Zong, Sen Shao, Weiping Zhu and Baoyu Zheng</i>	
Adaptive Unbalanced Spectrum Usage and Power Allocation for Cognitive OFDM-Based Relay Networks	1657
<i>Long Gao, Tiejun Lv, Weidong Liu, Wei Wang and Biao Liu</i>	
A New Cooperative Spectrum Sensing Algorithm in Cognitive Networks	1661
<i>Ling Li, Yan Cai and Hongbo Zhu</i>	
New Spreading Codes for Spectrum Sharing by MC-CDMA Structure in Cognitive Radio Network.....	1665
<i>H. Shahrokh and K. Mohamed-pour</i>	
A Novel OFDM-MSK Scheme for MB-OFDM UWB Based on Cognitive Radio	1669
<i>Weiwen Weng, Yuan'an Liu, Hefei Hu, Dongming Yuan and Xianglin Zhu</i>	
Anti-PUE Attack Base on the Transmitter Fingerprint Identification in Cognitive Radio.....	1673
<i>Caidan Zhao, Wumei Wang, Lianfen Huang and Yan Yao</i>	
On Performance Comparison of Wideband Multiple Primary User Detection Methods in Cognitive Radios	1678
<i>Bairu Chen, Tingting Liu, Feng Shu and Jianxin Wang</i>	
A Novel Cooperative Spectrum Sensing Scheme Based on Fuzzy Integral Theory in Cognitive Radio Networks.....	1682
<i>Weidong Liu, Tiejun Lv, Long Gao, Wei Wang and Biao Liu</i>	
Optimization of Parameters for Spectrum Sensing in Cognitive Radios.....	1686
<i>Yue Wang, Chunyan Feng, Caili Guo and Fangfang Liu</i>	
A Resource Scheduling Scheme Utilizing Grey Space Spectrums for OFDM Based Cognitive Radio Systems	1690
<i>Mo Li, Youyun Xu and Yueming Cai</i>	
Improvement of Detection Performance Using Cooperative Diversity in Multiple-User Cognitive Radio Networks.....	1694
<i>Jia Zhu and Bao-yu Zheng</i>	
The Spectrum Detection and Allocation of Cognitive Radio Based on OFDM	1698
<i>Anna Auguste Anghuwo, Xin Liu, Xuexhi Tan and Yutao Liu</i>	
New Technique for Enhancing the Signaling in Slowly Fading Dispersive Channels	1702
<i>Said E. EL-Khamy and Walid M. Saad</i>	
Cognitive Radio Based Multiple Access Algorithm for Differential Frequency Hopping Network	1706
<i>Zhuo Cheng, Shu Wang, Xiaoxu Qu, Shu Yan, Fuping Hu and An Li</i>	
A New Mechanism of Dynamic Spectrum Allocation in the Cognitive Network	1710
<i>Xi Su, Chaowei Yuan and Shuqun Shen</i>	
Performance Tradeoff for Cooperative Spectrum Sensing in Cognitive Radio Networks	1714
<i>Xiong Zhang, Zhengding Qiu, Dazhong Mu and Ke Xiong</i>	
Cognitive Radio Spectrum Sensing Based on Index Belief Degree Function	1718
<i>Meng-yun Liu, Shi-yin Li and Qiong Liu</i>	
A Framework of Access Network Architecture for 4G Systems Based on Cognitive Radio	1722
<i>Zheng Hu, Lei Sun and Hui Tian</i>	

SESSION 5 – UWB

Optimal Design of UWB Pulse Based on IDFT	1726
<i>Bin Li, Zheng Zhou and Weixia Zou</i>	
A Novel Demodulation Method Based on Zero-Crossing Detection for UWB Signal Reception.....	1730
<i>Lin Zhang, Shu Wang, Tianping Deng and Zhen Qin</i>	
A Cooperation Strategy Based on Game Theory in Cooperative UWB Networks	1734
<i>Fangni Chen, Zhongpeng Wang and Yi Yang</i>	
An Improved Wavelet-Based Pulse Design for UWB System	1738
<i>Bin Xia, Nan Xie, Peng Zhang and Qin Guo</i>	
Research on a New Kind of Rake-MKFA Receiver Based on DS-UWB System.....	1741
<i>Wei Lv, Junhua Dong, Fang Ye and Shen-yuan Yang</i>	
A Novel Pulse Shaping Method for Ultra-Wideband Communications.....	1745
<i>Wenke Liu, Hongsheng Sun and Gaoming Liu</i>	
A 900-mV Area-Efficient Source-Degenerated CMOS Four-Quadrant Multiplier with 10.6-GHz Bandwidth	1749
<i>Sigit Yuwono, Sok-Kyun Han and Sang-Gug Lee</i>	
Performance Analysis for Multiple Access Coherent Chaos-Shift-Keying System	1753
<i>Liya Ding and Yonghong Hou</i>	
Design of an Ultra-Short Pulse Generator.....	1757
<i>Qing Wang, Xiaojian Tian, Jiangdong Shan and Ge Wu</i>	
Performance Studies of UWB Communication System Based on Parallel Combinatory Spread Spectrum.....	1760
<i>Lin Qi, Lili Guo and Xiaofei Jiang</i>	
A Novel Method of Timing Jitter Suppression Based on UWB System	1764
<i>Ye Wang, Qinyu Zhang and Zhihua Yang</i>	
Composite Pulse-Multipath Channel Estimation for IR-UWB Communication System.....	1769
<i>Zhiyong Liu, Qinyu Zhang and Naitong Zhang</i>	

Effect of Angle-Dependent Pulse Distortion on UWB Localization System	1774
<i>Wa Kong, Jing Xia and Gang Wang</i>	
Compact UWB Probe for Near-Field Microwave Target Detection and Imaging.....	1778
<i>Jing Xia, Wa Kong and Gang Wang</i>	
Joint Method of Ultra Wideband Packet Acquisition Based on Energy Detection.....	1782
<i>Zhihua Yang, Qinyu Zhang and Naitong Zhang</i>	
EMD-Based Denoising of UWB-IR Signal.....	1787
<i>Ronghua Zhou, Rongrong Li and Zhan Xu</i>	
Research on the Networked Embedded System Architecture.....	1791
<i>Ling-ling Yuan, Qin Wang, Na Xu and Yan Zhang</i>	
A 3.1 – 4.8 GHz CMOS UWB Power Amplifier Using Current Reused Technique.....	1795
<i>S. A. Z. Murad, R. K. Pokharel, H. Kanaya and K. Yoshida</i>	
Maximum Throughput Obtaining of IEEE 802.15.3 TDMA Mechanism under Error-Prone Channel.....	1799
<i>Min Li and Xin Liu</i>	
Space Time Block Coded MIMO-OFDM Scheme for Indoor UWB Using	1803
<i>Lidong Wang, Yonghui Yang, Tao Chi and Xuebo Chen</i>	
Novel Resource Allocation for Cooperative MB-OFDM UWB Systems	1807
<i>Fangni Chen, Yi Yang and Zhongpeng Wang</i>	
A Special MAC Protocol for FCS Based on Ultra Wide Band.....	1811
<i>Jun Wang and Weiru Chen</i>	
Beam Pattern for Ultrawide-Band Impulse Signal of Linear Array in the Near Field	1815
<i>Dongmei Huang and Qinyu Zhang</i>	
A Carrier-Suppressed Balance BPSK Modulator for Impulse Radio Ultra-Wideband Transmitter	1820
<i>Qiong Zhang, Ying Yang, Jun Wang and Weidong Wang</i>	
Multipath Channel Model in Underground Mining UWB LOS Environments.....	1824
<i>Yanfen Wang and Chuanxiang Zhang</i>	

SESSION 6 – SIGNAL PROCESSING

Copyright Protection for Digital Image in Wireless Sensor Network	1828
<i>Pingping Yu, Suying Yao, Jiangtao Xu, Yu Zhang and Ye Chang</i>	
A Study of Neuman Hoffman Codes for GNSS Application	1832
<i>Dejun Zou, Zhongliang Deng, Jianming Huang, Huadong Liu and Lei Yang</i>	
A Novel Overlap Area Matching Algorithm Based on Location Fingerprinting in Wireless Networks	1836
<i>Yongxiang Zhao, Huaibei Zhou and Meifang Li</i>	
Study on Blind Estimation of Weak DS-UWB Signals.....	1841
<i>Tianqi Zhang, Xiangyun Gao, Liufei Yang, Shaosheng Dai and Qingping Jiang</i>	
A Method of Range and DOA Estimation of Near Field Sources without Pairing Parameters	1845
<i>Liguo Wang and Ke Wang</i>	
Dual-Stream Beamforming Based HARQ Schemes for LTE-Advanced System.....	1849
<i>Yang Liu, Wenbo Wang, Hui Zhao and Lu Han</i>	
A Novel Image Filtering Algorithm in Image Enhancement.....	1853
<i>LianQing Zhao, Jun Lu and Jin Zhang</i>	
WLAN User Location Estimation Based on Receiving Signal Strength Indicator	1857
<i>Qi Chen, Gaoming Huang and Shiqiong Song</i>	
STAP Performance Research on Array Failure	1861
<i>Shao-hua Zhang and Fei Gao</i>	
Windowed All-Phase DFT Modulated in Time Domain and Its Application in Spectrum Analysis.....	1865
<i>Jian-Zhong Liu, Zheng-Xin Hou and Cheng-You Wang</i>	
Noncircularity-Rate Maximization: A New Approach to Adaptive Blind Beamforming.....	1869
<i>Yougen Xu and Zhiwen Liu</i>	
A Simple Segmentation Approach for Sport Scene Images.....	1873
<i>Yongquan Xia, Shujun Liang, Weili Li and Shaohui Ning</i>	
Improved Side Information Generation and Virtual Channel Modeling for Distributed Video Coding.....	1877
<i>Xiaofei Zong, Bo Yang and Aidong Men</i>	
An Adaptive UKF Filtering Algorithm for GPS Position Estimation	1881
<i>Jiang Liu and Mingquan Lu</i>	
Comparison of Derivative Based and Derivative Free Kalman Filters for Multipath Channel Estimation in CDMA Networks.....	1885
<i>Zahid Ali, Mohamed Adnan Landolsi and Mohammad A. Deriche</i>	
Multiple-Symbol Parallel Interpolation in All-Digital Receiver	1889
<i>Yingjian Wang, Yu Zhang and Zhixing Yang</i>	
Adaptive Filter by using Sparse Partial Update Extended Correlation LMS Algorithm in the Double-Talk Condition	1895
<i>Weimin Yang, Rui Chen and Zhifeng E</i>	
Research of Adaptive Digital Predistortion Technology for Wideband OFDM Power Amplifier	1899
<i>Jianxin Wang, Jianguo Yu and Zhi Gao</i>	
A Detection Method of WCDMA Signal Based on the Quadratic Fourth-Order Moment Chip at Lower SNR.....	1903
<i>Junjie Pu and Zhijin Zhao</i>	

Design and Realization of the System for DSP Based on Real-Time Audio Signal Acquisition, Filtering and Transporting	1907
<i>Shuhua Li, Yueping Liu, Yong Tie and Meng Li</i>	
The Optimal Morlet Wavelet and Its Application on Mechanical Fault Detection	1911
<i>Dan Zhang and Wentao Sui</i>	
Line Detection in Range Images	1915
<i>Cun Lu Xu, Qin Lei and Zhi Cheng Guo</i>	
Study on Range Positioning Based on Single Vector Sensor	1919
<i>Junjie Shi and Dajun Sun</i>	
Oblique Projectors-Based Blind Source Separation Using Information Maximization Principle	1923
<i>Bin Cao and Qin-yu Zhang</i>	
Blind Estimation of Multicarrier CDMA Sub-Carrier Frequencies Based on the High-Order Cyclic Cumulants.....	1928
<i>Zhiming Yu, Lili Guo and Lin Qi</i>	
Channel Capacity of MIMO Multi-Carrier Modulation in Additive Noise.....	1933
<i>Jinlin Fu, Chunping Hou, Lei Yan, Ke Li, Jianjun Lei and Shanlin Sun</i>	
An Improved DOA Method for Single Acoustic Vector Sensor.....	1937
<i>Junjie Shi and Dajun Sun</i>	
Multirate Method for Constant Beamwidth Beamforming of Nested Array	1942
<i>Longyang Huang, Yaqing Chen and Mengxing Li</i>	
Algorithm Based on PRI Transform for Estimating the Scanning Periods of Phased Array Radar	1946
<i>Shuhang Wu, Wei Ji Su, Lin Zhu, Yue Wang and Xiuming Shan</i>	
Low Complexity Blind Equalization Based on Parzen Window Method.....	1950
<i>Chengyu Zhang, Bin Lin, Renjie Liu and Baisuo Wang</i>	
Period Estimation of the PN Sequence for Direct Sequence Spread Spectrum in Multipath Environment.....	1954
<i>Pu Miao, Tianqi Zhang, Wei Zhang, Guoning Ma and Yanli Liu</i>	
Compensation of IQ Imbalance Based on a Simplified Blind Source Separation Method	1958
<i>Lei Sun, Zhijun Li and Miao Yang</i>	
A Robust Digital Phase Discriminator in One-Bit Quantized Software-Defined Receivers	1963
<i>Jin Zhao, Jianqiu Zhang and Jianjun Yin</i>	
Sub-Band Adaptive Acoustic Echo Cancellation Using Human Auditory Feature	1967
<i>Yuandong Zhao, Jie Qiao and Yanping Zhang</i>	
A Novel Distributed Power Control Algorithm Based on Game Theory	1971
<i>Chenglin Zhao and Yan Guo</i>	
Five Points Modulation in Closed Loop Fiber Optic Gyroscope	1975
<i>Xuyou Li, Yong Zhang and Chen Zhang</i>	
Steady-State Performance of Adaptive Differential Constant Modulus Multiuser Detection.....	1978
<i>Wei Ge, Lin Zheng, Meimei Duan and Jing Zhang</i>	
An Approach to Voice Conversion Based on Non-Linear Canonical Correlation Analysis	1982
<i>Zhihua Jian</i>	
Research on Digital Channelized Receiving Problems in Passive Guiding System	1986
<i>Wenxu Zhang and Limin Guo</i>	
Theoretical Design of Frequency Offset Detector for Radio Frequency Identification (RFID) Base-Band Signal.....	1990
<i>Shao-feng Huang, Sheng-ye Huang and Yi-gang He</i>	
Design and Implementation of the Universal RTOS on DSP	1994
<i>Hong Jiang, Qing-song Yu and Xi-lin Wang</i>	
Throughput Analysis of Slotted ALOHA with Cooperative Transmission	1998
<i>Yingbo Hu, Weiwei Yang, Na Pu and Yueming Cai</i>	
Two DTV Signal Processing Schemes for the Transmission of Wide Color Gamut Video Signal.....	2002
<i>Xu Yan, Li Yan and Li Guiling</i>	
Signal Processing Algorithm of Spaceborne SIMO HF-SAR for Three-Dimensional Topside Ionosphere Exploration.....	2006
<i>Jie Chen, Zhuo Li, Chunsheng Li and Yinqing Zhou</i>	
Performance Analysis of LDPC Codes for Invariance of Channel Estimation	2010
<i>Nam Soo Kim, Min Hyuk Kim, Tae Doo Park, Chul Seung Kim and Ji Won Jung</i>	
Research of a Non-Specific Person Noise-Robust Speech Recognition System	2014
<i>Jing Bai and Xueying Zhang</i>	
High Performance Digital Carrier Tracking Loop Design for High Dynamic GPS Receiver	2018
<i>Yan Yang and Zhengquan Huang</i>	
Multi-Channel High-Speed Data Acquisition and Storage System	2022
<i>Wen-yi Liu and Yan Zhang</i>	
A Novel Fault Signal Detection Method.....	2026
<i>Shanlin Sun, Chunping Hou and Shanlin Sun</i>	
Research of Narrow-Band Interference Suppression Technologies in DSSS Communication Systems	2030
<i>Min Gong and Tao Lin</i>	
Research on Ultrasonic Detection of Seabed Oil Pipeline Based on Wavelet Packet De-Noising	2035
<i>Shu-fen Qi, Chong Zhao and Yong Yang</i>	
Efficient Comb Decimation Filter with Sharpened Magnitude Response	2039
<i>Quan Liu and Jun Gao</i>	
Audio Segmentation in AAC Domain for Content Analysis.....	2043
<i>Rong Zhu, Haojun Ai and Ruimin Hu</i>	

Study on the Identification Method of Wavelet Packet Modulation Signals.....	2047
<i>Xianghong Tang, Ling Zhao and Shuangxia Li</i>	
Blind Equalization Based on Wavelet Neural Network Optimizing by Genetic Algorithm	2051
<i>Ying Xiao and Zhen-xing Li</i>	
Performance Analysis of the Fastica Algorithm in ICA-Based Co-Channel Communication System.....	2055
<i>Xiaoniu Yang, Junliang Yao, Jiandong Li and Zhao Li</i>	
Image Estimation Using Total Least Squares	2059
<i>Xuan Li, Zheng-Xin Hou and Cheng-You Wang</i>	
The Realization of High Precision Frequency Measurement System Based on Wet Steam Wetness Measurement System.....	2063
<i>Shu-e Zhang, Peipei Li, Zaiwang Yang and Zhonghe Han</i>	
Simple and Efficient Cross-Correlation Method for Estimating 2-D Direction of Arrival.....	2067
<i>Nan-Jun Li, Jian-Feng Gu and Ping Wei</i>	
A Parallel Differential Correlation Acquisition Algorithm in Time Domain	2071
<i>Jin Zhao, Jianqiu Zhang and Jianjun Yin</i>	
A New Decorrelating Method of MUD.....	2075
<i>Huanjiong Zhang</i>	
Implementation of the Programmable OFDM Signal Generator Based on MCU.....	2079
<i>Shu-hui Yang, Yong-guang Lu and Lin Gong</i>	
A Joint Iterative Decoding Scheme in Wireless Image Transmission System.....	2084
<i>Xu Bai, Yang Cui, Zhong-zhao Zhang and Shao-chuan Wu</i>	
A 3-D Parameter Joint Estimation Algorithm of Near Field Sources Based on MP Algorithm	2088
<i>Liguo Wang and Ke Wang</i>	
A Scheme on the Implement of Software Radio Based on the Frequency Converting Technique	2092
<i>Boli Liu, Junying Sun and Caixia Liu</i>	
High-Speed FPGA Implementation for DWT of Lifting Scheme	2096
<i>Wei Wang, Zhiyun Du and Yong Zeng</i>	
Image Segmentation Based on Gabor Filter and MRF Model.....	2100
<i>Xiaoli Wei and Weiming Shen</i>	
Fuzzy Compensation Support Vector Classification for Direction of Arrival Estimation.....	2104
<i>Xiang He, Zemin Liu and Bin Jiang</i>	
Wavelet Multi-Scale Edge Detection Using Adaptive Threshold.....	2108
<i>Wenchang Sun, Jianshe Song and Lin Zhang</i>	
VLD Design for AVS and H.264 Dual Standards Video Decoder.....	2112
<i>Wei Liu, Yong-en Chen and Peng Wang</i>	
Subspace Compressive Frequency Estimation of Frequency Hopping Signal.....	2115
<i>Jia Yuan, Pengwu Tian and Hongyi Yu</i>	
Pulse Compression of LFM Signal Based on FPGA.....	2119
<i>Xi Su, Ying Guo and Bu-hong Wang</i>	
Robust Adaptive Beamforming under the Quadratic Inequality Constraint.....	2122
<i>Xin Song, JinKuan Wang, Yinghua Han and Xuefen Niu</i>	
Chirp-Like Jammer Excision in DSSS Communication Systems Using EMD Based Radon Wigner Distribution	2126
<i>Ye Yuan, Wen-bo Mei and Yi-qian Li</i>	
A New Algorithm of Normalized LMS Blind Multiuser Detector Based on Kalman Filter	2130
<i>Shao-bin Guo, Ping Huang and Shao-jing Guo</i>	
Feature Extraction and Recognition of Landmine	2135
<i>Jian-bin Wu, Mao Tian and Yu-tao Ling</i>	
A Fast Search Algorithm with Multi-Block Mode and Multi-Reference Frame.....	2139
<i>Yansong Cui, Zhongliang Deng and Weizheng Ren</i>	
Image Denoising by Sparse Code Shrinkage.....	2143
<i>Yan Yang, Gewen Kang and Hong Li</i>	
Novel Temporal Error Concealment Algorithm Based on Residue Restoration	2147
<i>Yansong Cui, Zhongliang Deng and Weizheng Ren</i>	
A FMCW Radar Acquisition and Process System Based on LabVIEW	2151
<i>Da-Biao Zhang, Zeng-rong Zhao and Ran Bai</i>	
Internal Field Analysis of High-Power Microwave in Impurities Semiconductor Materials	2154
<i>Jierong Guo, Xinhua Cai and Xianchun Wang</i>	
Blind Estimation of Channel Length for OFDM Systems	2158
<i>Bin Sheng, Xiangyang Wang, Xiaohu You and Lan Chen</i>	
Decision Feedback Blind Equalization Algorithm Based on Momentum and Orthogonal Wavelet Packet Transform.....	2161
<i>Jie Zhu, Yecai Guo and Chao Yang</i>	
The Research of Integrated Navigation Applied to Synthetic Aperture Sonar Underwater	2165
<i>Houquan Li, Jinsong Tang and Bingcheng Yuan</i>	
Hardware Implement of the Forward Value Conversion Algorithm for Delta-Sigma System Based Direct Stream Digital.....	2169
<i>Guoxiang Tong and Ming Chen</i>	
The Research of Optimization Algorithm in the Sonar Emergency System	2173
<i>Hua Qi, Tingting Zhu and Ruochen Liu</i>	

Bandpass Chaotic Signal Design for Wireless Communication	2176
<i>Baishan Zhao and Yi-sheng Zhu</i>	
Method for Jitter Signal Detection of GPS Basing on Non-Sequential Sampling	2180
<i>Fan Jiang, Xiao-tao Deng, Tai-qi Qiu and Yin-bing Zhu</i>	
Consecutive Mean Excision Based Signal Existence Detection in AWGN	2184
<i>Xiao-yong Zhang, Lai-yuan Luo and Yu-fan Zhou</i>	
An Improved Group-Blind Adaptive Receiver under Multi-Path Channel	2188
<i>Dongyu Wang, Yongjian Zhang, Menglong Wu and Wenkai Liu</i>	
A Fast Parameter Estimation Approach for Coherently Distributed Source	2192
<i>Yinghua Han, JinKuan Wang, Qiang Zhao and Xin Song</i>	
Correlative Coding Based Channel Estimation for Practical OFDM Systems over Time Varying Channels	2196
<i>Dan Li, Suili Feng and Hongcheng Zhuang</i>	
The GTEM Cell TRP Test and S_{11} Parameter Compensation Method	2200
<i>Ji Li, Shufang Li, Li Deng, Runtian Kan</i>	
Receive Signal Enhancement in MIMO Eigenmode Transmission System Via Sparse Approximation	2204
<i>Lei Chen, Ju Liu and Lina Zheng</i>	
Extended Theory for Analysis of PLL Phase and Frequency Tracking Error in GNSS Receiver	2208
<i>Yuqi Liu, Xiulin Hu, Yihang Ran and Ting Ke</i>	
Implementation of MMSE Receivers Based on Diagonal Loading Method in Multipath Rayleigh Fading Channels	2212
<i>Dong-hong Zhang and Gui-sheng Liao</i>	
Study of GPS Nulling Antenna Based on Space-Time Processing Algorithm	2216
<i>Jianhong Xiang, Lili Guo and Qingling Liu</i>	
Research on Accurate Measurement Method of TACAN Azimuth Based on Curve Fitting	2220
<i>Bin Zhang and Wei-kang Wang</i>	
Packet Loss Concealment Using Enhanced Waveform Similarity OverLap-and-Add Technique with Management of Gains	2224
<i>Mojia Li, Muqing Wu, Dapeng Wu, Lizhong Wang and Chunxiu Xu</i>	
Information Synthesis Algorithm Based on ROI Coding Method of JPEG2000	2228
<i>Xin-lin Huang, Gang Wang, Quan-rui Liao and Chun-gang Liu</i>	
The Research on GPS Frequency Domain Anti-Jamming Algorithms	2231
<i>Yong-Jun Liu and Han-Ying Hu</i>	
Receiving Method for Base Band DSSS Signal in Phase Domain	2234
<i>Xun Tang, Xue-jun Sha, Kai Zhu, Zong-chao Zhan and Yu-long Wu</i>	
A New Multi-Modulus Blind Equalization Algorithm for QAM Signals	2238
<i>Chisheng Li, Wenjuan Dong, Guojin Wan and Limin Chen</i>	
New HDTV Signal Processing System for Extended Gamut Transmission	2242
<i>Yan Li, Yan Xu and Guiling Li</i>	
Analysis of Performance for DCSK over Rayleigh Fading Channel	2246
<i>Yiping Chen, Ying Shi and Haijun Li</i>	
Weak Signal Detection Based on Signal-Correlation Principle	2249
<i>Daowen Liu and Lin Yao</i>	
Analytical Solutions to Density Functionally Graded Piezoelectric Cantilever Beams	2253
<i>Ai-min Jiang and Yi-li Wu</i>	
A Search Algorithm for Fast Motion Estimation in Accordance with Video Phone	2258
<i>Lin-sheng Li, Xiong Zhang and Yong-hui Zhang</i>	
A Kind of Signal Processing Method for the Polarization Phased Array Radar	2261
<i>Li-zhong Song, Xiao-lin Qiao, Shi-feng Fu and Qun Wu</i>	
The Design of Adaptive No-Uniform Filter Banks	2265
<i>Weidong Liu and Shen Zhang</i>	
Analysis of the Polarization Modes of Electromagnetic Wave in Rectangular Coal Mine Tunnel	2268
<i>Hong-wei Zhang, Xue-qing Zhang and Yan Shi</i>	
An Amplitude-Only Direct Data Domain Least Square Algorithm of Wideband Signals Based on the Uniform Circular Array	2271
<i>Yan-fei Ren, Hai-dan He, Yun Zhang and Kuo Zhang</i>	
Nonstationary Interference Suppression in DSSS System Using Time-Frequency Distribution and Polynomial Phase Signal Model	2275
<i>Gaoping Shao, Pei She and Xiaomin Ren</i>	
A Cross-Correlation Matrix-Based MMUSIC Algorithm	2279
<i>Li Li, Yi Liu, Pei Wang and Junxiao Xue</i>	
A Variable Step-Size LMS Adaptive Filtering Algorithm	2283
<i>Xiao-bo Li, Yang-yu Fan and Ke Peng</i>	
Fast Fractal Image Encoding Based on Local Variances and Genetic Algorithm	2287
<i>Jinshu Han</i>	
Generalized Derivation of Neural Network Constant Modulus Algorithm for Blind Equalization	2291
<i>Donglin Wang and Dongming Wang</i>	
Construction of Complementary Sequence Sets Based on Generating Function	2295
<i>Yifeng Tu, Pingzhi Fan, ShinyaMatsufuji Matsufuji and Xudong Li</i>	
Parallel Carrier Recovery in All-Digital Receiver	2299
<i>Yingjian Wang, Yu Zhang and Zhixing Yang</i>	

Research on Cellular Location Technology Based on Cultural Algorithm	2303
<i>Liang Qiao, Yao-ying Qiao and Shenyuan Yang</i>	
Research on Data Fusion Optimizing Filtering Algorithm for SOPLAT System	2307
<i>Liang Qiao, Mingxin Tan and Yao-ying Qiao</i>	
Analysis of Track Long-Wave Irregularity with Fractional Fourier Transform	2311
<i>Wenjuan Sheng and Aihuang Guo</i>	
Research of a Novel Dispersion Compensator Based on Uniform Fiber Bragg Grating	2315
<i>Lin Qi</i>	
Low-Complexity Implementation of High Order SRRC Filter	2319
<i>Changyong Pan, Yingying Lu, Kewu Peng and Hui Yang</i>	
A Signal-Subspace-Based ESPRIT-Like Algorithm for Coherent DOA Estimation.....	2323
<i>Yun-Lin Xu, Hong-Shun Zhang and Jiang-Shu Zhan</i>	
Interference Analysis of Interplex Modulation in GALILEO E1 Band	2327
<i>Yihang Ran, Xiulin Hu, Ting Ke and Yuqi Liu</i>	

SESSION 7 – CHANNEL MODEL AND CHARACTERIZATION

The Simulation and Analysis of UWB Modified S-V Channel Model	2331
<i>Yanjing Sun and Li Peng</i>	
Modeling Method of SC and MRC in Correlated Rayleigh Fading Channel.....	2335
<i>Yi Wang, Yingwu Fang, Xinyu Da and Wei Jin</i>	
Channel Capacity Analysis and Simulations of Distributed MIMO System	2339
<i>Yuhong Gong and Xia Wang</i>	
A New Resource Planning Algorithm for Data Service	2343
<i>Yunfei Ma, Lu Wang and Yu Gao</i>	
Effective Degree of Freedom and Channel Capacity of a MIMO System Employing Circular and Linear Array Antennas	2347
<i>Xia Liu and Marek E. Bialkowski</i>	
Wireless Channel Model of UWB for Underground Tunnels in Coal Mine	2351
<i>Yanjing Sun, Li Peng and Xue Liu</i>	
The Optimization of Combined Beamforming with Space-Time Block Coding	2355
<i>Xinbo Qu, Yi Zhang, Zheng Wan and Min Li</i>	
Influence of Dimension Change on Radio Wave Propagation in Rectangular Tunnels.....	2360
<i>Lingfei Cheng and Peiling Zhang</i>	
A Study on an Efficient Channel Data Processing Algorithm for Developing a Software-Based Playing Back Channel Simulator.....	2363
<i>Giyeok Ha, Minjae Kim, HyuckJae Lee and Hyun Kyu Chung</i>	
Pedestrians Effects on Indoor MIMO-OFDM Channel Capacity	2367
<i>Jishu Das Gupta and Karla Ziri Castro</i>	
Performance Evaluation of the Non-Zero Propagation Delay ACK-ALOHA-CDMA Channels	2371
<i>Jianhua Shao, Kuixi Yin and Xin Liang</i>	
Scintillation Effects on Deep Space Telecommunication Links through Solar Corona	2374
<i>Shengbo Hu</i>	
Autoregressive Channel Prediction Model for Cognitive Radio	2378
<i>Chunli Dong, Yuning Dong and Li Wang</i>	
Research and Simulation of Propagation Characteristic in Wireless Channel	2382
<i>Xi-jun Zhang, Ji-ai He, Ke-jun Jia and Ying Lin</i>	
An Adaptive Resource Allocation Scheme for GPRS/EDGE Towards 3G.....	2385
<i>Yanchao Zhang and Zehua Gao</i>	
Key Technique Study of Channel Evaluation in Adaptive Frequency Hopping Systems.....	2389
<i>Desheng Zhang, Jianping An and Yonghui Shi</i>	
Monte Carlo Simulation with Error Classification for QAM Modulation under Rayleigh Fading Channel.....	2393
<i>Dong Liang, Wenxin Liu, Mugen Peng and Wenbo Wang</i>	
Investigation on Simulation Confidence Probability in Multipath Rayleigh Fading Channels	2397
<i>Dong Liang and Wenbo Wang</i>	
Characteristics of MIMO Channel in Consideration of Polarization	2401
<i>You Ma, Zhi Zheng and Yu-long Zhou</i>	
Improved Data Fusion Model for Wireless Sensor Network.....	2404
<i>Wei Wang, Tinglei Huang, Youcai Zhou and Hui Liu</i>	
Research of Wireless Fading Channel Modeling Based on Radial Basis Function Network.....	2407
<i>Jingwen Tian, Meijuan Gao and Shiru Zhou</i>	
Wavelet-Based Multi-Carrier Modulation on Power Line Communication	2411
<i>Zhongliang Deng, Weiguo Guan, Jianming Huang, Dejun Zou and Yuetao Ge</i>	
Finite-State Markov Model for the Aeronautical Channel.....	2415
<i>Qunhua Pan, Shanjian Liu, Ming Xu and Changsheng Jia</i>	
A Model for Pole Track Satellite Communications	2419
<i>Haijiang Wang</i>	

SESSION 8 – ANTENNA AND CIRCUIT

A Novel Design of Tunable Band-Stop Filter Using MEMS Technology.....	2423
<i>J. M. Huang, F. Zhu and Z. L. Deng</i>	
Improved Cyclic ESPRIT Algorithm.....	2426
<i>Qiang Qu, Xuebo Chen and Minglu Jin</i>	
Broadband Printed-Circuit Yagi Array.....	2430
<i>Chun-Chi Lee, Ching-Ju Lin, Churng-Jou Tsai and Chia-Wei Wang</i>	
A High-Linearity, 60-dB Variable Gain Amplifier with Dual DC-Offset Cancellation for UWB Systems.....	2434
<i>J. Cheng, F. Y. Huang, L. H. Wu, Y. Tian and N. Jiang</i>	
Adaptive Order-Decision Method for Memory Polynomial Based Predistorters.....	2438
<i>Cuiping Yu, Yuanan Liu and Shulan Li</i>	
Triangular Memory Polynomial Predistorter.....	2442
<i>Cuiping Yu, Yuanan Liu and Shulan Li</i>	
Design of Four-Element Dual-Frequency Circular-Polarization Microstrip Array Antenna.....	2446
<i>Bin Luo, Yiqiang Wu and Jianhua Li</i>	
Design of a Novel Dual-Frequency Antenna for Wireless Communication Applications.....	2450
<i>Li Deng, Shufang Li, Yan Liu and Ji Li</i>	
Array Pattern Synthesis Via Sparse Weight Vector Finding and Convex Programming.....	2454
<i>Hui Chen, Qun Wan, An Min Huang and Juan Wang</i>	
PCB Ground-Parasitic Effects on a WiMAX Low-Noise Amplifier RFIC.....	2458
<i>J. M. Wu, C. W. Lo, B. Y. Huang, N. K. Yang and S. C. Li</i>	
High Efficiency RF Power Amplifiers with Dynamic Biases for TD-SCDMA Systems.....	2461
<i>Kai Yuan, Taijun Liu and Yan Ye</i>	
Design of a Novel UWB Band-Notched Microstrip Slot Antenna.....	2465
<i>A. A. Kalteh and M. Naser-Moghadasi</i>	
The Design and Analyses of Wireless Laser Communication System.....	2469
<i>Tianze Li and Shuyun Wang</i>	
A High-Linearity Low-Noise Figure Active Mixer in 0.18μm CMOS.....	2473
<i>Shengchang Gao and Kaihang Li</i>	
A Minimized Wilkinson Power Divider Using Dual Transmission Line.....	2477
<i>Bin Yu, Zehua Gao, Liqi Yi and Feng Gao</i>	
A Design Method to Acquire High Gain for Omni-Direction Radiation Applied in WiMAX.....	2481
<i>Shaoli Zuo, Yingzeng Yin, Zhiya Zhang and Xi Yang</i>	
Mode Scattering Analysis of Large Scale Antenna Array.....	2485
<i>Zhichun Zhang and Xiaoxiang He</i>	
High Speed, High Resolution and Low Power Approaches for SAR A/D Converter.....	2489
<i>Xingyuan Tong, Yintang Yang, Zhangming Zhu, Yan Xiao and Jianming Chen</i>	
A Novel Defected Ground Structure with Lengthened Etched Gap and Microwave Filter Design.....	2494
<i>Bin You and Junqing Zhang</i>	
A High Performance PD SOI CMOS Single-Pole Double-Throw T/R Switch for 2.4GHz Wireless Applications.....	2498
<i>Lei Chen, Liang Tian, Jin Zhou, Ai-bo Huang and Zongsheng Lai</i>	
Research on Receiver Dynamic Range Extension with Adjustable Attenuator.....	2502
<i>Kun Li, Jian-Yao Huang and Jian-Fu Teng</i>	
A Closed-Form Solution for ELF Radiated Fields of a Line-Current Antenna in Earth-Ionosphere Waveguide.....	2506
<i>Chao Liu, Long-Gen Zheng and Yong-Pin Li</i>	
Analysis of Radiation from Microstrip.....	2510
<i>Dan Zhang, Yuanan Liu and Haiying Jiang</i>	
Highly Linear Low-Noise Amplifier Design Using an Out-of-Band Termination for WiMAX Applications.....	2514
<i>J. M. Wu, C. K. Liou, N. K. Yang, D. Y. Tsao and S. C. Li</i>	
Beam Shaping for Satellite Phased Array Antenna Using Dual Coding Genetic Algorithm.....	2517
<i>Hongmei Zhao, Zehui Xie, Huali Wang and Jun Jin</i>	
Switchable Microstrip Bandpass-Stopband Filter Based on Periodically Loaded Transmission Lines.....	2521
<i>J. García-García and B. Sans</i>	
A 10mW CMOS RF Front-End for Portable GPS Receivers.....	2525
<i>Wenbo Xia and Xiaolin Zhang</i>	
Outage Probability Analysis of the Downlink ST-MRC Distributed Antenna System over Shadowed Rayleigh Fading Channels.....	2529
<i>Hua-Min Chen, Caihua Zhang and Ming Chen</i>	
A 23.5 GHz Double Stage Low Noise Amplifier Using .13μm CMOS Process with an Innovative Inter-Stage Matching Technique.....	2533
<i>S. M. Shahriar Rashid, Apratim Roy, Sheikh Nijam Ali and A. B. M. H. Rashid</i>	
Promising 6.0-12 GHz Low Noise Amplifiers by Combining Two Matched Amplifiers.....	2537
<i>Hsin-Chia Yang, Chuei-Tang Wang, Shih-Chia Lin, Zhi-Guang Feng, Cheng-Yong Wang and Chingyei Chung</i>	
Compact Wide Slot Ultra-Wideband Antenna with Tuning Stubs.....	2541
<i>Zhong-Min Yan, Yun-Sheng Xu and Wei-Dong Wang</i>	
Planar Spiral Antennas Applied on Short-Wave Communications.....	2545
<i>D. B. Zhang, J. M. Huang and Z. L. Deng</i>	
Design and Analysis of a Compact Terahertz Signal Generator for Military Communications.....	2549
<i>Hai Zhang and Jianguo Wang</i>	

Capacitance Performance of Single Material Double Workfunction Gate(SMDWG) MOSFET	2553
<i>Junsheng Li, Yuehua Dai, Junning Chen and Daoming Ke</i>	
A New Precise Tuning Method for VLF Multi-Tuning Antenna	2557
<i>Kaifeng Li, Yuzhong Jiang, Jianxin Guan and Aiguo Gao</i>	
Analysis of Dispersion Characteristic of ACPW Using FDTD Method Based on Mixed Absorbing Boundary Condition	2561
<i>Peng Chen and Shao-jun Fang</i>	
Investigations of RL-Loaded Bowtie Antenna for Low-Resolution GPR	2564
<i>Aimin Zou, Jicai Li, Keke Wang and Defu Cheng</i>	
High Speed Wideband Low Phase Noise 2:1 Frequency Divider.....	2567
<i>Xuemei Lei, Zhigong Wang and Keping Wang</i>	
A Method for Performance Improvement of RF Power Amplifier by Using Defected Ground Structure.....	2571
<i>Zhuowei Chen and Bin You</i>	
Circuit Noise Effect on Sampling Clock in Frequency-Domain Radio Receiver IF Digitization	2575
<i>Lei Sun, Miao Yang, Ronghua Zhou, Jianping An and Zhijun Li</i>	
A New Form of the Numerical Dispersion Relation of ADI-FDTD for the 3D Maxwell's Equations.....	2580
<i>Liping Gao</i>	
Design of the Downconverter Applied in the Reader of 5.8GHz System of Electronic Toll Collection.....	2583
<i>Quanhai Tan, Ye Liu and Peng Li</i>	

SESSION 9 – AD HOC AND MESH NETWORKS

An Experimental Study of the Impact of Using Multi-Radio in WLAN Mesh Networks.....	2587
<i>Chenzhe Zhang, Karol Kowalik and Mark Davis</i>	
A Novel Single Copy Replication Routing Strategy for Delay Tolerant Networks	2591
<i>Lei Yin, Hui-mei Lu and Yuan-da Cao</i>	
IRR: A Novel Incremental Self Recoverable Routing Protocol for Mobile Ad Hoc Networks	2596
<i>Yu Zhou, Yao Yu and Sidan Du</i>	
BREAC: Broadcast Routing Based on Edmonds Algorithm for Ad Hoc Networks with Asymmetric Cost Model	2600
<i>Li-Sheng Chen and Hwang-Cheng Wang</i>	
A Novel Routing Protocol Based on an Energy Model in Ad Hoc Networks.....	2605
<i>Bo Wang, Chuanhe Huang and Wenzhong Yang</i>	
A Key Management Scheme for Ad Hoc Networks.....	2609
<i>Ping Zeng, Ronglei Hu, Yong Fang, Jianxi Yang and Yue Liu</i>	
Cross-Layer Congestion Control for Multi-Channel Wireless Mesh Networks	2614
<i>Juan Ren, Hui Xu and Zhengding Qiu</i>	
A Benchmark for Delay Performance in Sparse Vehicular Ad Hoc Networks	2618
<i>Yuanzhen Li, Jianxin Liao, Xiaomin Zhu and Tonghong Li</i>	
R-MAC: A New MAC Protocol for Wireless Networks with Asymmetric Links	2622
<i>Zhan-jun Liu, Rui Wang, Yun Li, Qian-bin Chen and Wei-liang Zhao</i>	
Load-Balancing Algorithm to Improve Throughput Capacity in Wireless Mesh Backbone Networks.....	2626
<i>Chungui Liu, Chunping Hou, Zhongbing Guo, Shaoying Zhu, Yantai Shu, Lianfang Zhang and Zenghua Zhao</i>	
A Limited Broadcast Algorithm (LBA)	2630
<i>Bo Xue, Pinyi Ren and Jia Feng</i>	
A Conditioned Forwarding Algorithm for On-Demand Multicast Routing Protocol.....	2635
<i>Peng Hu, Yuan'an Liu, Zhe Chen, Song Gao and Shan Wang</i>	
Cross-Layer Fair Resources Allocation for Multi-Radio Multi-Channel Wireless Mesh Networks	2639
<i>Xin Huang, Sui-li Feng and Hong-cheng Zhuang</i>	
ePAD: Enhancing eMule for Playing-as-Downloading Application	2644
<i>Wenyi Wang and Yaowu Chen</i>	
AODV with Lower Routing Overhead.....	2649
<i>Dongru Chen and Xia Wang</i>	
Resource Reservation for Voice Support in MANETs.....	2653
<i>Ghalem Boudour, Cédric Teyssié and Zoubir Mammeri</i>	
HCRS: A Routing Scheme for Ad Hoc Networks as a QoS Guarantee Primitive	2657
<i>Yue Zhang and Zhiguo Li</i>	
Modeling and Analysis of a Stable Direction-Based Routing Protocol in Vehicle Mobile Ad Hoc Networks	2661
<i>Yang Yang and Lei Wang</i>	
A Gateway Selection Scheme for Internetworking of MANET and Internet Using Improved Genetic Algorithm.....	2668
<i>Wenbo Ma and JianHao Liu</i>	
A Banyan-Tree Topology for Railway Wireless Mesh Network	2672
<i>Fumin Zou, Xinhua Jiang, Tongsen Wang and Zhangxi Lin</i>	
Research on the Node Probability Distribution of Random Direction Model in MANET	2676
<i>Ji-hua Lu and Yan-tao Liu</i>	
A Power Management Protocol for Multi-Hop Ad Hoc Networks.....	2680
<i>Huawei Zhan and Yun Zhou</i>	
Performance Comparison of Entropy-Based Multipath Routing Protocol	2684
<i>Chao Gui, Baolin Sun, Yue Zeng and Xianying He</i>	

Peer Management Domain Agents Architecture for MANET Management	2688
<i>Xiangyan Ning, Shunyi Zhang, Wei Liang and Yanfei Sun</i>	
A Dimensional Analysis Approach to Transport Capacity of Wireless Network	2692
<i>Hui Zhu</i>	
A Secure DSR Protocol Based on the Request Sequence-Number	2696
<i>Jianping Wang and Haoshan Shi</i>	
Research on Multi-Path Routing Based on Load-Balance Algorithm for Ad Hoc Networks.....	2700
<i>Haifeng Zhang, Zhefu Wu and Yali Qin</i>	
Cross-Layer Dynamic Source Routing Protocol with Load Balancing in Wireless Mesh Networks.....	2704
<i>Jieying Zhou, Jilong Xiao, Boxing Xiao and Weicong Xie</i>	
The Design and Implementation of a P2P Live Video Broadcasting System Based on Hybrid Structure.....	2708
<i>Chang-Li Li, Wei-Rong Yan, Xiao-Kun Ying, Qing-Lin Sun and Zeng-Qiang Chen</i>	
Multipath Routing Protocol for Networks Lifetime Maximization in Ad-Hoc Networks.....	2713
<i>Juanwei Liu, Jian Chen and Yonghong Kuo</i>	
Road Probing: RSU Assisted Data Collection in Vehicular Networks	2717
<i>Lin Yang, Jingdong Xu, Gongyi Wu and Jinhua Guo</i>	
Dynamic Address Allocation Protocols for Mobile Ad Hoc Networks Based on Genetic Algorithm	2721
<i>Yong Liu, Ping Zhong and JiaXiong Li</i>	
VCG-Based Time-Slot Auctioning in IEEE 802.16 OFDM/TDMA Wireless Mesh Networks.....	2725
<i>Zhen Kong and Yu-Kwong Kwok</i>	
Cross-Layer Rate Control and Dynamic Scheduling in Mobile Ad Hoc Networks	2729
<i>Xu-Na Miao, Xian-wei Zhou, Li-Ping Du and Lin Lin</i>	
Asymptotic Expression for Transmission Capacity of Wireless Ad Hoc Networks.....	2733
<i>Changhai Chen, Changchuan Yin, Nana Li and Danpu Liu</i>	
A Two Dimensional Clustering Search Protocol for Peer-to-Peer Networks	2737
<i>Gang Shen and Yan Xu</i>	
A Multipacket Reception Protocol Based on Cooperative Communication for WMNs	2741
<i>Yun Zhu, Cheng-kang Pan, Youyun Xu, Yueming Cai and Changri Luo</i>	
A Differentiated Shared Path Protection Algorithm in WDM Networks	2745
<i>Huihua Zhou</i>	
Improving Throughput Using MIMO-Based Routing Protocol with Multi-Links and Antenna-Selection.....	2748
<i>Xiaohui Ji, Min Sheng, Jiandong Li, Di Tang and Heng Qi</i>	
Novel Dynamic Ant Genetic Algorithm for QoS Routing in Wireless Mesh Networks.....	2753
<i>Xue-Mei Sun and Xiao-Yu Lv</i>	
A Load Balance K-Hop Clustering Algorithm for Ad Hoc Networks.....	2757
<i>Yong Li and Ping Wang</i>	
LBAMR: A Load Balancing and Asymmetrical Multi-Path Routing	2761
<i>Xin Li and Zhe Li</i>	
Coding-Aware Routing for Unicast Sessions in Wireless Networks	2765
<i>Xuyang Ding, Xue Zhang, Mingyu Fan and Yaling Yang</i>	
Region Topology Based Route Design for Multiple Ferries in DTNs.....	2769
<i>Min Peng, Peilin Hong, Hancheng Lu and Kaiping Xue</i>	
Design of Mobile Server Framework in MANET	2773
<i>Zhongying Bai and Jiancheng Qin</i>	
Comprehensive Evaluation of AODV in Wireless Multi-Hop Ad Hoc Networks	2777
<i>Jingfang Su, Muqing Wu and Jingrong Wen</i>	
Optimization on Distributed Cross-Layer Design for MRMC Wireless Multi-Hop Networks.....	2781
<i>Kewei Li, Furong Wang, Xu Xie and Hao Wang</i>	
Nonuniform Property of Random Direction Mobility Model for MANET	2785
<i>Ruxin Zhi, Fei Gao and Jie Yang</i>	
On-Demand Routing Technology Based on Task-Relay in Partially Connected Ad Hoc Networks	2789
<i>Qiang Li and Lei Liu</i>	
Adaptive Cooperation Scheme Using Fairness Selection Relay	2793
<i>Ke Yang and Jiadong Xu</i>	
A Reliable Routing Model Based on the Residual Energy in MANET	2797
<i>Jianjun Xing, Yuzeng Li, Qiaohe Yang and Huichang Shi</i>	
A Novel Enhanced Weighted Clustering Algorithm for Mobile Networks.....	2801
<i>Chang Li, Yafeng Wang, Fan Huang and Dacheng Yang</i>	
Design and Implementation of a Delay-Tolerant Network Emulator Based in QualNet Simulator.....	2805
<i>Zhenjing Zhang, Zhigang Jin, Huan Chen, Yantai Shu and Chuandong Zhao</i>	
A Dynamic Approach for Transmission Holdoff Time in IEEE 802.16 Mesh Networks.....	2809
<i>Yun Liu, Suili Feng, Wu Ye and HongZhi Lu</i>	
Petri Analysis on Multi-Path Pre-Detection of Byzantine Nodes in WMN.....	2813
<i>Gang Liu and Jichao Yao</i>	
APTLB: A Practical Approach for Providing Traffic Load-Balancing in Wireless Mesh Networks.....	2817
<i>Mohammed H. M. Algamali and Jian xin Wang</i>	
An Efficient Identity-Based Group Key Agreement Protocol.....	2821
<i>Ping Zeng, Yong Fang, Yue Liu and Ronglei Hu</i>	
Realization of Topology Awareness in Peer-to-Peer Wireless Network.....	2826
<i>Shiguo Wang and Hong Ji</i>	

BF-Chord: An Improved Lookup Protocol to Chord Based on Bloom Filter for Wireless P2P	2830
<i>Shiguo Wang, Hong Ji and Yi Li</i>	
A Backup Relay Technology for the Paired Slot Relay of JTIDS.....	2834
<i>Huihui Xiang, Jiakang Liu, Jingming Kuang, Abdul Sattar Malik and Chong Wang</i>	
Design and Implementation of a Simulation System for Space Ad-Hoc Networks.....	2840
<i>Xiaocui Li, Honglei Liu, Hongyu Zhang and Zhe Li</i>	
Cross Layer Design of AODV and Spatial-TDMA Protocol in Mobile Ad Hoc Networks	2844
<i>Xida Shang, Yaoguo Wang, Qiguo Wang and Linfeng Yuan</i>	
A Tabu Search Algorithm for Frequency Assignment Problem in Wireless Communication Networks	2848
<i>Yu-Bin Zhang, Yu-Cai Zhao and Hui Xiong</i>	
Research for Cluster Channel Assignment in WIA-PA	2852
<i>Fei-yan Yue and Feng Liu</i>	
A K-Hop Passive Cluster Based Routing Protocol for MANET	2856
<i>Chunhua Zang and Cheng Tao</i>	
Network Coding Aware Routing Protocol for Lossy Wireless Networks	2860
<i>Xin Wei, Li Zhao, Ji Xi and Qingyun Wang</i>	
Energy-Based and Local-Maintenance Routing Protocol in Ad Hoc Networks.....	2864
<i>Shi Zheng, Pu Zhang and Qinyu Zhang</i>	
An Improvement of MACA in Alleviating Hidden Terminal Problem in Adhoc Networks	2870
<i>Tao Han and Weijie Lu</i>	
An Improved Coded Repetition Scheme for Safety Messaging in VANETs.....	2874
<i>Ying Wu, Lin Yang, Gongyi Wu and Jinhua Guo</i>	
AQMP: An Adaptive QoS MAC Protocol Based on IEEE802.11 in Ad Hoc Networks.....	2878
<i>Rong Geng, Zhe Li and Lei Song</i>	
Group-Based Management of Multi-Channel Allocation Algorithm for Double Interfaces Wireless Mesh Networks	2882
<i>Hangzhou Jiang and Jifeng Sun</i>	
The Intrusion Detection Model Based on the Fuzzy Judgment in Ad Hoc Network.....	2886
<i>Shi-rui Liu and Zhe Li</i>	
A Network Intrusion-Tolerant System Based on Adaptive Algorithm	2890
<i>Hui Zhao, Shanlong Zheng, Wanlong Li and LiJuan Zhang</i>	
Link Optimization Ad-Hoc On-Demand Multipath Distance Vector Routing for Mobile Ad-Hoc Networks	2894
<i>Bo Xue, Pinyi Ren and Shuangcheng Yan</i>	
Location-Aided Opportunistic Routing for Mobile Ad Hoc Networks	2900
<i>Xudong Yang, Jiangtao Yin and Sunzheng Yuan</i>	
Lower Bounds on the Connectivity Probability for 2-D Mesh Networks	2905
<i>Meilian Liang, Jiarong Liang, Guoning Liang and Xiaodong Xu</i>	
An Adaptive Queue Management Mechanism for Video Streaming over Mobile Ad Hoc Networks.....	2910
<i>Shujie Wei, Guangwei Bai and Hang Shen</i>	
A QoS Routing Algorithm Based on Game Theory for Ad Hoc Networks Having Small-World Characteristics	2914
<i>Rong-Hua Zhou and Nan Zhang</i>	
An Improved AODV Routing Protocol for MANETs.....	2918
<i>Yanbin Yang and Hongbin Chen</i>	
Network Coding Awareness Based Fairly Scheduling Protocol in Wireless Network	2922
<i>Chen Huang, Furong Wang, Bin Dai and Bo Zhang</i>	
Experimental System for Integration of Ad-Hoc and Cellular Network.....	2925
<i>Yehua Hong, Lianfeng Shen and Bo Xu</i>	
Research of Asynchronous Leader Election Algorithm on Hierarchy Ad Hoc Network.....	2929
<i>Gang Zhang, Jing Chen, Yu Zhang and Chungui Liu</i>	
A Reliable Dynamic Source Routing Based Cluster Label in Mobile Ad Hoc Networks.....	2933
<i>Xiaobo Lu and Lianying Zhou</i>	
SSFPSim: A Physical Network Topology Supported P2P Generic Simulator Framework.....	2937
<i>Bo Sun, Yun-gang Wei, Qian Qiu, Shu-juan Lian and Nai-xin Zhan</i>	
A Password-Authenticated Key Agreement Scheme for Ad Hoc Networks	2943
<i>Ronglei Hu, Yaping Chi, Fenglin Xu, Zhanzhen Wei and Ran Li</i>	
Improving Data Dissemination in MANET	2948
<i>Xinjuan Zhu, Congming Wei and Peng Chen</i>	
Modeling and Analysis of MAC-Broadcasting in VANETs.....	2952
<i>Hongfei Liu, Chuanlong Ma, Jianming Tan, Tao Wang and Zhongjun Yuan</i>	
Link Change Rate for Mobile Wireless Networks	2956
<i>Xinyu Yang, Wenjing Yang and Shusen Yang</i>	
The Lightweight Currency and File Share in Geography-Aware Ad Hoc Networks.....	2960
<i>Kun Yu</i>	
Mobile Agent Based Topology Discovery in Mobile Ad Hoc Networks	2964
<i>Jing Wei, Wei Guo, Jian Su and Wei Tang</i>	
Adaptive Discovery of Internet Gateways in Mobile Ad Hoc Networks: With Mobile IP-Based Internet Connectivity	2968
<i>Bo Lu, Bin Yu and Bin Sun</i>	
A Novel Clustering Algorithm Based on GPS of the Mobile Ad Hoc Network.....	2973
<i>Jiancai Liu and Xiao Han</i>	

An Energy Balanced Clustering Algorithm for Mobile Ad Hoc Networks.....	2977
<i>Lei Zhang and Xuehui Wang</i>	
Interconnect between MANET and Internet: Design and Implementation of Mobile Gateway Based on DSR Protocol.....	2981
<i>Bin Sun, Denglian Shi and Yuan Bai</i>	
Improving the Capacity of WCDMA System Using Ad Hoc Relaying	2985
<i>Xujie Li</i>	
A Simplified Scheme of Internet Gateway Discovery and Selection for MANET	2989
<i>Zhanyang Xu, Xiaoxuan Han and Shunyi Zhang</i>	
A Distributed Routing Algorithm Based on the Reliable Path.....	2993
<i>Zan Ma, Zhen Xu and Liyang Rui</i>	
Design and Implementation of Ad-Hoc Dynamic Gateway Based on OLSR and Mobile IP.....	2997
<i>Bin Yu, Wenzhi Zhang and Li Li</i>	
The Impact of Simulation Area Shape on the Performance of Ad Hoc Networks.....	3001
<i>Heng Luo, David Laurensen, Aihuang Guo and Hui Li</i>	
Enhancing the “Willingness” on the OLSR Protocol: Methodology on Experimenting the Real Testbed	3005
<i>Suhazlan Suhaimi, Kamaruddin Mamat and K. Daniel Wong</i>	
A Data Transmission Scheme for Community-Based Opportunistic Networks	3009
<i>Jianwei Niu, Xing Zhou, Kongqiao Wang and Jian Ma</i>	
Ad Hoc QoS Routing Protocol Based on Pertinence between Delay and Bandwidth.....	3014
<i>Jianwu Zhang, Jingyuan Zou and Qi Zhao</i>	
A Self Adjustable Multi-Channel MAC Protocol for Ad Hoc Wireless Network	3018
<i>Yun Zhou and Huawei Zhan</i>	
An Efficient Variable-Range Transmission Power Control Algorithm for Mobile Ad Hoc Networks	3022
<i>Chunjie Chen, Demin Li, Chao Jin and Jiacun Wang</i>	
A Wireless Mesh Network Authentication Method Based on Identity Based Signature	3026
<i>Wenju Liu, Yuzhen Shang and Ze Wang</i>	
Research on Overlay Multicast Routing Protocols for Mobile Ad Hoc Networks.....	3030
<i>Bing Su, Haiyang Yu, Zhenghua Ma, Changchun Yang and Yingying Zhu</i>	
An Efficient A-DSRV Routing Protocol for Asymmetric Mesh Networks	3034
<i>Hefei Hu, Dongming Yuan, Yuan'an Liu and Bihua Tang</i>	
A Multi-Hop Clustering Protocol for MANETs.....	3038
<i>Chuangang Wang, Yanping Yu, Yuanxin Xu, Minjue Ma and Shibin Diao</i>	
Differential Game Model with Coupling Constraint for Routing in Ad Hoc Networks.....	3042
<i>Lin Lin, Xianwei Zhou, Liping Du and Xuna Miao</i>	
Dynamic Maintenance for Multicast Source Tree in Wireless Ad Hoc Networks.....	3046
<i>Guikai Liu, Gang Wei and Hongjiang Wang</i>	
Scalable Authentication Protocol for Wireless Mesh Network Access.....	3051
<i>Ze Wang, Qi Wang, Wenju Liu and Yongzhen Ke</i>	

SESSION 10 – SENSOR NETWORKS

RAFH: Reliable Aware Frequency Hopping Method for Industrial Wireless Sensor Networks.....	3055
<i>Yadong Wan, Qin Wang, Shihong Duan and Xiaotong Zhang</i>	
Scan-Line IP Assignment for Wireless Sensor Networks	3059
<i>Ray-I Chang, Che-Hsuan Chang and Chi-Cheng Chuang</i>	
An Electrostatic Field-Based Coverage-Enhancing Algorithm for Wireless Multimedia Sensor Networks	3064
<i>Jing Zhao and Jian-Chao Zeng</i>	
Wireless Sensor Network Placement Algorithm.....	3069
<i>Wei Li</i>	
Energy Balanced Scheme Based on Variable Cell Transmission Range for Wireless Sensor Networks	3073
<i>Xiao-heng Deng, Chugui Xu and Yi Liu</i>	
A New Approach to Improve Connectivity of Wireless Sensor Network Node	3078
<i>Xueyong Sun and Dong Li</i>	
An Improved LEACH Protocol for Application-Specific Wireless Sensor Networks.....	3082
<i>Chong Wang, Jiakang Liu, Jingming Kuang, Abdul Sattar Malik and Huihui Xiang</i>	
A Multi-Hop Energy Efficient Clustering Algorithm in Routing Protocol for Wireless Sensor Networks	3087
<i>Xiang Gao, Cuiqin Duan, Jingjing Sun and Yintang Yang</i>	
Serial Distributed Detection Performance Analysis in Wireless Sensor Networks under Noisy Channel.....	3092
<i>Liping Yin, Ying Wang and Dian-wu Yue</i>	
A Trust Establishment Scheme for Cluster-Based Sensor Networks.....	3096
<i>Youcai Zhou, Tinglei Huang and Wei Wang</i>	
Weighted Average Approach to Quantized Measurement Fusion in Wireless Sensor Network	3100
<i>Yan Zhou and Jianxun Li</i>	
ID-Based Key Management Strategies of Clustering Wireless Sensor Networks.....	3105
<i>Zhiming Zhang, Jiangang Deng and Changgen Jiang</i>	
A Delay-Tolerant MAC Protocol with Collision Avoidance for Underwater Acoustic Networks	3109
<i>Yongxin Zhong, Jianguo Huang and Jing Han</i>	

Jammer Localization in Wireless Sensor Networks	3113
<i>Yanqiang Sun and Xiaodong Wang</i>	
Survivability Evaluation of Cluster-Based Wireless Sensor Network under DoS Attacks	3117
<i>Zhongqiu Jiang, Shu Yan and Liangmin Wang</i>	
Battery-Aware Depth-First Search Routing for Streaming Data Transmissions in WSNs	3121
<i>Xueyu Chen and Lingxiang Zheng</i>	
Pushing Sensor Network Computation to the Edge	3125
<i>Evens Jean, Robert T. Collins, Ali R. Hurson, Sahra Sedigh and Yu Jiao</i>	
A Hybrid MAC Protocol for Wireless Sensor Network	3129
<i>Minsheng Tan, Liang Tang, Hong Chang and Haitao Tian</i>	
DOIDF: An Efficient Distributed Opportunistic Relaying Protocol Based on Limited Feedback	3134
<i>Junsheng Chen and Jianxin Wang</i>	
An Efficient Broadcast Encryption Scheme for Wireless Sensor Network	3138
<i>Yanli Chen, Geng Yang and Yanli Chen</i>	
EBAS: An Energy-Efficient Event Boundary Approximated Suppression Algorithm in Wireless Sensor Networks	3142
<i>Longjiang Guo, Jiqiang Wang, Meirui Ren, Zhongzhao Zhang and Yan Yang</i>	
The NS2-Based Simulation and Research on Wireless Sensor Network Route Protocol.....	3146
<i>Junguo Zhang, Wenbin Li, Dongxu Cui, Xueliang Zhao and Zhongxing Yin</i>	
The Analysis of Changeable Medium Environment Wireless Sensor Networks.....	3150
<i>Yuan Yang, Shen Zhang, Wei Wang and Xiaoyan Jiang</i>	
Application of Wireless Sensor Network in Monitor System for Grain Depots	3154
<i>Jian-guang Jia, Zun-wen He, Jing-ming Kuang and Hong-bo Yan</i>	
Study of Security Base on Wireless Sensor Network Routing Protocol	3159
<i>Xianglin Qin and Shuda Wang</i>	
A Route-Based Scheduling in Wireless Multi-Hop Mesh Networks for Collision Avoidance	3163
<i>Jindong Zhao, Qin Wang and Feng Yu</i>	
An Energy-Balanced Data Transmission Scheme for Clustered Wireless Sensor Networks	3167
<i>Erdun Zhao, Juan Yao, Peihe Tang and Hao Liu</i>	
Entropy-Based Trust Management for Data Collection in Wireless Sensor Networks.....	3171
<i>Hong Luo, Jiaming Tao and Yan Sun</i>	
TOA-Based Location Estimation Accuracy for 3D Wireless Sensor Networks	3175
<i>Qiao-ling Du, Xiaoying Sun, Rui Ding, Zhi-hong Qian and Shu-xun Wang</i>	
Multi-Path Fading Channel-Based Estimating Model of Link Quality for Wireless Sensor Networks	3179
<i>Chao Sun, Bai Chen, Ying Zhang, Xinlin Wang, Lipei Guo and Bin Liu</i>	
Research of Minimum Energy Consumption Topology Construction in Wireless Sensor Networks.....	3184
<i>Chao Sun, Bai Chen, Jingjing Dou, Xinlin Wang and Bin Liu</i>	
Energy Efficiency Clustering Algorithm in Wireless Sensor Network Application	3189
<i>JianSheng Cheng</i>	
Sensor Nodes Placement for Farmland Environmental Monitoring Applications	3193
<i>Hui Liu, Zhijun Meng and Yuanyuan Shang</i>	
Decision Fusion Rules over Rician Fading Channel for Wireless Sensor Networks.....	3197
<i>Ying Wang, Mudi Xiong, Dian-wu Yue and Rongxi He</i>	
The Properties and Stability Analysis of an Integrate-and-Fire Model	3201
<i>Li Zhang and Da-zheng Feng</i>	
Power-Efficient Clustering Routing Protocol Based on Applications in Wireless Sensor Network	3205
<i>Tao Liu and Feng Li</i>	
An Energy-Balanced Variable Range Transmission Scheme in Wireless Sensor Networks	3211
<i>Hao Liu, Peihe Tang and Erdun Zhao</i>	
Frequency Offset Cancellation for IEEE802.15.4a Based Ranging.....	3215
<i>Qin Wang and Feng Yu</i>	
An Energy-Efficient Balanced Clustering Algorithm for Wireless Sensor Networks	3219
<i>Zhiqiao Du, Yi Liu and Depei Qian</i>	
An Optimized Algorithm for Approximate k-NN Queries in Wireless Sensor Networks.....	3223
<i>Zhibin Zhao, Lan Yao and Xiaomei Dong</i>	
A Structural Health Monitoring System Using Wireless Sensor Network	3228
<i>Jianjun Niu, Zhidong Deng, Fengguang Zhou, Zongsheng Cao, Zhanqing Liu and Fangzhou Zhu</i>	
PFMA: Policy-Based Feedback Management Architecture for Wireless Sensor Networks.....	3232
<i>Zhigang Li, Shining Li and Xingshe Zhou</i>	
Unequal Error Protection Based on Symmetric Slepian-Wolf Coding in Wireless Sensor Network	3236
<i>Guodong Xue, Lin Zhang and Yu Liu</i>	
An Improvement of GAF for Lifetime Elongation in Wireless Sensor Networks.....	3240
<i>Xiao-gang Qi and Chen-xi Qiu</i>	
Model Design of Wireless Sensor Network Based on Scale-Free Network Theory	3244
<i>Xuyuan Zhang</i>	
Based on Adaptive Variable Rate Particle Filter Tracking Research in Wireless Sensor Networks	3248
<i>Zi-xi Jia, Cheng-dong Wu, Yun-zhou Zhang and Yue Huang</i>	
Extending Network Lifetime in Wireless Sensor Networks Using Modified Minimum Cost Forwarding Protocol - MMCFP.....	3252
<i>Padmavthy T. V., Divya G. and Jayashree T. R.</i>	

Distributed Optimization Based on Utility with Delay Constraints in Wireless Sensor Networks.....	3256
<i>Shengbin Liao, Wenqing Cheng, Wei Liu and Zongkai Yang</i>	
Cluster Reconstruction Strategy Based on Energy Prediction Mechanism in Wireless Sensor Networks	3260
<i>Zhe Ji, Shunjie Xu, Guoqiang Wang and Li Hong</i>	
Congestion Control for Efficient Transmission in ZigBee Networks	3264
<i>Woo Sub Jeong and Sung Ho Cho</i>	
An Improved APIT Algorithm Based on Direction Searching.....	3268
<i>Xiangqun Li, Heng Gao and Linlin Lv</i>	
Achievable Error Bounds on Localization with Wireless Sensor Networks	3272
<i>Yiu Wing Edwin Chan and Boon Hee Soong</i>	
Apply Modified Method of Nonlinear Optimization to Improve Localization Accuracy in WSN.....	3276
<i>Haiqing Jiang, Renzhi Cao and Xingfu Wang</i>	
A Power-Aware Layering Optimization Scheme for Wireless Sensor Network	3282
<i>Peng Ji, Chendong Wu, Yunzhou Zhang and Xiaozhe Wang</i>	
Hypothesis Test of Moving Status for Target Localization Algorithm in WSN	3286
<i>Zemin Wu, Lei Zhang and Hai Wang</i>	
Average Consensus Based Scalable Robust Filtering for Sensor Network.....	3290
<i>Yan Zhou and Jianxun Li</i>	
An Novel Energy-Efficient Redundant Routing Tree Algorithm for Wireless Sensor Networks	3295
<i>Xiao-Tian Chen, Shun-Yi Zhang, Pan Wang and Ming Zhang</i>	
Near-Optimal Working Slots Selection for a Sensor Via Submodularity	3299
<i>Xiaopei Wu and Yue Wu</i>	
Global Exponential Stability of a Kind of Neural Networks with Impulse and Time-Varying Delays	3303
<i>Xing-cheng Pu and Kai Sun</i>	
An Novel Energy-Efficient MAC Protocol Based on Collision Avoidance for Wireless Sensor Networks	3307
<i>Ming Zhang and Suoping Wang</i>	
Wireless Monitoring System of Street Lamps Based on ZigBee	3311
<i>Jianyi Lin, Xiulong Jin and Qianjie Mao</i>	
Applying General Sensing Mode to Intrusion Detection in Wireless Sensor Networks.....	3314
<i>Tao Liu, Zhishu Li, Feng Yin and Jun Yang</i>	
Scheduling Algorithm of Great Tolerance Wireless Communication Delay for Wireless Network Control System	3318
<i>Jun Wang and Wei Gao</i>	
Localization in Wireless Sensor Network Based on Multi-Class Support Vector Machines	3322
<i>Hongbing Liu, Shengwu Xiong and Qiong Chen</i>	
Environmental Monitoring System Based on Sensor Networks Using Multi-Channel MAC Protocol.....	3326
<i>Shiqiang Wang, Mingshun Wang, Hansheng Hong and Yue Ma</i>	
An Improvement of LEACH Routing Protocol Based on Trust for Wireless Sensor Networks	3330
<i>Weichao Wang, Fei Du and QiJian Xu</i>	
Application of Wireless Sensor Network in the Monitoring and Control System of Coal Mine Safety	3334
<i>Ying-xu Qiao, Zhi-bin Zhang and Hong-guo Yang</i>	
A Distributed Node Localization Algorithm Based on Believable Factor for Wireless Sensor Network.....	3337
<i>Yuanhua He and Hongsheng Li</i>	
Design of New Power Management System in Wireless Sensor Network.....	3341
<i>Qinghua Zhao, Hua Li, Zhang Wei and Hongyan Li</i>	
An Optimizing Movement Control Strategy for Mobile Sensor Networks.....	3345
<i>Wen-Wen Huang, Cheng-Wu Zou, Ming-Xing Deng and Min Yu</i>	
Localization Research Based on Improved Simulated Annealing Algorithm in WSN.....	3349
<i>Yuzeng Li, Jianjun Xing, Qiaohe Yang and Huichang Shi</i>	
A Strategy of Node Membership Verification for Wireless Multimedia Sensor Networks	3353
<i>Yufu Jia, Baolin Sun and Qing Zhu</i>	
Frequency Points Allocation Algorithm in Cluster-Based Sensor Network	3357
<i>Jun Yi, Weiren Shi and Lei Xu</i>	
Distributed Node Authentication in Wireless Sensor Networks	3361
<i>Qiyuan Zhang, Xuehai Zhou and Feng Yang</i>	
An Ellipse-Centroid Localization Algorithm in Wireless Sensor Networks	3365
<i>Jie Li, Zhi Li, Qing Wang, Hu Zhao and Jun-de Song</i>	
On Deploying Wireless Sensors to Achieve Both Coverage and Connectivity	3369
<i>Yiming Sun, Zuoming Yu, Jun Ge, Bin Lin and Ziqiu Yun</i>	
The Implementation of Communication for CC2430-Based Wireless Sensor Network Nodes.....	3373
<i>Junguo Zhang, Wenbin Li, Zhifeng Xia, Guozhu Wang and Zhen Wan</i>	
An Event/Action Based Sensor Network Protocol for Real-Time Distributed Control	3377
<i>Wenmin Zhao, Jianguo Xing and Chunhua Ju</i>	
A Method to Prolong the Lifetime of Wireless Sensor Network	3382
<i>Jie Wang, Qinghua Gao, Hongyu Wang and Wenzhu Sun</i>	
Hypercube-Based Key Management in Wireless Sensor Network	3386
<i>Huawei Zhao and Ruixia Liu</i>	
A New Simulation Scheme for Testing and Debugging Wireless Sensor Networks	3390
<i>Guangrong Pan, Qin Wang, Lei Wang and Jie He</i>	
A Fuzzy Logic Based QoS Evaluation Model for Wireless Sensor Network	3394
<i>Qiang Deng, Dong-liang Xie and Shan-zhi Chen</i>	

K-Connected-Based WSN Topology-Control Algorithm - K-Connected-Based Topology Algorithm LKETA	3398
<i>Yang Tao, Xiliang Yu and Pengmin Sun</i>	
Design and Implementation of the Zigbee-Based Body Sensor Network System	3402
<i>Chengcheng Ding, Xiaopei Wu and Zhao Lv</i>	
A PSO-Based Topology Control Algorithm in Wireless Sensor Networks.....	3406
<i>Wenzhong Guo, Honglei Gao, Guolong Chen, Hongju Cheng and Lun Yu</i>	
GMSVM-Based Prediction for Temporal Data Aggregation in Sensor Networks	3410
<i>Jian Kang, Liwei Tang, Xianzhang Zuo, Xihong Zhang and Hao Li</i>	
An Improved Alamouti Strategy in Dense Wireless Sensor Networks.....	3414
<i>Cheng-zhi Long, Hui Chen, Li-hong Li, Wei-ling Wu and Man-tian Xiang</i>	
Coverage Optimization in Wireless Mobile Sensor Networks.....	3418
<i>Xingzhen Bai, Shu Li, Changjun Jiang and Zhengzhong Gao</i>	
Algorithm of Creating Routing Table for WSNs	3422
<i>Binwei Deng and Guangming Huang</i>	
Tolerant Majority-Colluding Attacks for Secure Localization in Wireless Sensor Networks.....	3427
<i>Xingfu Wang, Lei Qian and Haiqing Jiang</i>	
A New Association Scheme of IEEE 802.15.4 for Real-Time Applications.....	3432
<i>Fanliang Meng and Yigang Han</i>	
Multi-Sensor IMM Estimator for Uncertain Measurement.....	3437
<i>Ming Cen, Xingfa Liu and Daisheng Luo</i>	
Connected Dominating Sets in Wireless Sensor Networks	3441
<i>Lili Zhang, Chenming Li, Yingchi Mao, Lizhong Xu and Huibin Wang</i>	
Modeling the Spread of Worm Epidemics in Wireless Sensor Networks	3445
<i>Shengjun Wei and Junhua Chen</i>	
DV-Hop Based Self-Adaptive Positioning in Wireless Sensor Networks	3449
<i>Zhao-yang Zhang, Xu Gou, Ya-peng Li and Shan-shan Huang</i>	
Affect of Confinement of Event Field within the Sensor Field on Network Lifetime and Energy Consumption for Cluster-Based Wireless Sensor Networks.....	3453
<i>Abdul Sattar Malik, Jingming Kuang, Jiakang Liu and Huihui Xiang</i>	
Dynamic Hop-Limit Localization Algorithm Based on DV-Hop	3459
<i>Shan-shan Huang, Zhi Li, Ya-peng Li and Zhao-yang Zhang</i>	
A Fitting Method of the Temperature Characteristic Curve of Sensor	3463
<i>Hong-bing Zhou and Zhe-zhao Zeng</i>	
An Energy-Saving Algorithm of WSN Based on Gabriel Graph.....	3467
<i>Ke Wang, Liqiang Wang, Shiyu Cai and Song Qu</i>	
Experimental Study of Load Balancing Routing for Improving Lifetime in Sensor Networks	3471
<i>Khaled Daabaj, Mike Dixon and Terry Koziniec</i>	
A Directional Antennas-Based Topology Control Algorithm for Two-Tiered Wireless Sensor Network	3475
<i>Xiao-yu Qiao, Min-ming Ni and Zhen-hui Tan</i>	
MSS: A Multi-Level Data Placement Scheme for Data Survival in Wireless Sensor Networks	3479
<i>Wei Ren, Junge Zhao and Yi Ren</i>	
A Real-Time Monitoring and Controlling System for Grain Storage with ZigBee Sensor Network	3483
<i>Huiling Zhou, Fengying Zhang, Jingyun Liu and Fenghui Zhang</i>	
Design and Implement of Tire Monitoring System Based on ZigBee.....	3487
<i>Zuo-xun Wang, Yuan Xu and Gui-juan Wang</i>	
Research on the Signal Random Attenuation Coefficient Based on RSSI in WSN Localization Technology	3491
<i>Jijun Zhao, Hua Li and Xiang Sun</i>	
Fitting of Brillouin Spectrum Based on LabVIEW	3495
<i>Chengbin Li and Yongqian Li</i>	
A Self-Adaptive Clustering Algorithm for Wireless Sensor Network.....	3499
<i>Huan Yan, Zun-wen He and Jian-guang Jia</i>	
A Novel Attack Detection Algorithm Based on t-Distribution in Wireless Sensor Networks.....	3503
<i>Yong-jian Luo, Xiao-yong Ding, Gang Wu and Guang-dong Ding</i>	
Energy-Efficient Cluster Head Selection in Clustering Routing for Wireless Sensor Networks	3507
<i>Yu Hu, Xiaorui Shen and Zhenhua Kang</i>	
Topology Controlling for QoS in Wireless Sensor Networks	3511
<i>Changmin Duan</i>	
Using Energy Efficiency Clustering Scheme to Improve the Performance for Wireless Sensor Network	3515
<i>Zhigang Zhang and Kai Liu</i>	
An Efficient Routing Protocol Based on Two Step Cluster Head Selection for Wireless Sensor Networks	3519
<i>Zhong-Gao Sun, Zi-Wei Zheng and Shao-Juan Xu</i>	
Wireless Sensor Network InterConnection Design Based on IPv6 Protocol	3524
<i>Juan Luo, Zhen Lu, De-xiang Liu and Re-fa Li</i>	
A Data Filtration-Aware MAC Protocol for Wireless Sensor Networks	3528
<i>Na Li, Yuanan Liu, Bihua Tang and Fan Wu</i>	
Shadowing Effects and Edge Effect on Sensing Coverage for Wireless Sensor Networks.....	3532
<i>Tao Liu, Zhishu Li, Xiang Xia and Sida Luo</i>	
The Design and Implementation of a RSSI-Based Localization System	3536
<i>Yunchun Zhang, Zhiyi Fang, Ruixue Li and Wenpeng Hu</i>	

A Novel Sequence Based Localization Approach for Wireless Sensor Networks	3540
<i>Xiao Xu and Zhidong Deng</i>	
EDFM: A Stable Election Protocol Based on Energy Dissipation Forecast Method for Clustered Heterogeneous Wireless Sensor Networks	3544
<i>Haibo Zhou, Yuanming Wu and Guangzhong Xie</i>	
Cluster Based Dynamic Routing on Powerline Carrier Network	3548
<i>Li Hong, Kensheng Wang, Shurong Li, Weixia Zou and Zheng Zhou</i>	
An Estimation Approach for Uniformity of Node-Distribution in Wireless Sensor Networks	3552
<i>Dong-fang Wang and Xiao-gang Qi</i>	
An Energy-Balanced Ant-Based Routing Protocol for Wireless Sensor Networks	3556
<i>Lin Wang, Ruihua Zhang and Shichao Geng</i>	
Topology Control Algorithm Target Tracking-Oriented	3560
<i>Dongmei Yan, JinKuan Wang, Li Liu, Bin Wang and Peng Xu</i>	
ZigBee Wireless Sensor Network in Environmental Monitoring Applications	3564
<i>Chengbo Yu, Yanzhe Cui, Lian Zhang and Shuqiang Yang</i>	
Research and Practice of Signal and System Experimental Platform Based on Network	3569
<i>Chengbo Yu, Yanfei Liu and Lian Zhang</i>	
Research on Node Sleep/Wake-up Mechanism in WSN Based on Energy Threshold Setting	3573
<i>Hongsheng Li, Sumin Liu and Bing Hu</i>	
BC_EM: A Link Loss Inference Algorithm for Wireless Sensor Network.....	3577
<i>Qi Duan and Wandong Cai</i>	
Stabilization Controller Design of Uncertain Networked Control Systems with Fast-Varying Delay and Packet-Dropout.....	3582
<i>Nan Xie, Bin Xia and Yi Xie</i>	
Grid-Based for Energy Conservation around Obstacles in Wireless Sensor Networks	3586
<i>Yuandong Zhao and Ping Cao</i>	
Hierarchy Cluster Model and Key Management in Wireless Sensor Network.....	3590
<i>Huawei Zhao and Ruixia Liu</i>	
Research on Localization Method Based on RSSI Ranging-Error Compensation	3594
<i>Rencheng Jin, Bo Peng, Lisha Meng and Teng Gao</i>	
A Heuristic Routing Protocol for Wireless Sensor Networks in Home Automation	3597
<i>Xiao Hui Li, Seung Ho Hong and Kang Ling Fang</i>	
A Survey of Addressing Algorithms for Wireless Sensor Networks	3605
<i>Fujun Ye and Ruifang Pan</i>	
The Design of the Remote Water Quality Monitoring System Based on WSN	3612
<i>Zhu Wang, Qi Wang and Xiaoqiang Hao</i>	
An Environmental Monitoring System Based on ZigBee for Emergency Applications	3616
<i>Yongbing Xiao, Jianxian Zhang, Tingting Liu and Xiang Gao</i>	
Design of Fiber-Optic Strain Array Multi-Channel High Speed Signal Acquisition Based on DSP	3620
<i>Xueguang Wang and Zhongxiao Hao</i>	
The Research of Feature Selection Model Based on the Game Theory	3624
<i>Maixia Fu, Yuan Zhang and Feiyu Lian</i>	
Principles for Energy-Efficient Topology Control in Wireless Sensor Networks	3628
<i>Xue Zhang, Xuyang Ding, Sanglu Lu and Guihai Chen</i>	
ML Source Localization Theory in an Underwater Wireless Sensor Array Network	3631
<i>Yan Ma and Yu Hen Hu</i>	
Route Navigation System in ZigBee-Based Sensor Networks	3635
<i>Wenze Li, Yufen Han, Guixia Kang, Jing Sun and Mingyuan Zhang</i>	
The Relation between Organized Structure and Maintaining Cost in WSN.....	3640
<i>Nannan Zhao and Yu Zhang</i>	
Influence of Noises on the Smallest Detectable Temperature in the Fiber Bragg Grating Demodulation System	3644
<i>Liping Zhang and Yongqian Li</i>	
A Security Architecture for Wireless Sensor Networks Based-On Public Key Cryptography	3648
<i>Jianbo Yao</i>	
The Algorithm of Connected Dominating Set Based Clustering in Sensor Networks.....	3651
<i>Zhijun Xie and Jin Guang</i>	
Service Oriented Management of Heterogeneous Wireless Sensor Networks.....	3655
<i>Yue Zhang</i>	

SESSION 11 – RFID, BLUETOOTH AND 802.1X TECHNOLOGIES

Analysis and Compare of Slotted and Unslotted CSMA in IEEE 802.15.4	3659
<i>Feng Wang, Dou Li and Yuping Zhao</i>	
A RFID Anti-Collision Algorithm Based on Slot Time	3664
<i>Yan-Fei Li, Hong-Jun Wang, Hua Yang and Yu-Shan Zheng</i>	
A CMOS Transmitter Front-End for Mobile UHF RFID Reader.....	3668
<i>Ping Xu, Wei He and Zongsheng Lai</i>	
A RFID Decoder Using a Matched Filter for Compensation of the Frequency Variation	3672
<i>Luo Xi and Sung Ho Cho</i>	

Pulse Detection Based Anti-Collision Protocol for Passive RFID System.....	3677
<i>Hong gang Wang, Chang xing Pei and Feng Zheng</i>	
Study on Design and Application of Wireless Sensor Network Based on Communication of Radio Frequency Identification System.....	3682
<i>Wuming Luo, Pingyang Han and Ruilin Zhao</i>	
Tag Identifiable Probability Study While Reader Collision Occurs.....	3688
<i>Weijun Hong, Yan Liu, Shufang Li and Junfeng Wang</i>	
An Enhanced 2-Pass Optimistic Anonymous RFID Authentication Protocol with Forward Security.....	3692
<i>Lei He, Song-he Jin, Tao Zhang and Na-na Li</i>	
Research on an Improved MRA Mechanism in 802.11n Network	3696
<i>Hao Jin and Yingchen Zhu</i>	
An Enhanced Hierarchical Group-Index Based Lightweight Authentication Protocol with Forward Security.....	3700
<i>Yong Gan, Lei He, Tao Zhang and De-pei Qian</i>	
Application of the ZigBee Technology in the Wireless Ordering Dish System	3704
<i>Jian-mei Sun and Da-yong Zhou</i>	
Influence of Retransmissions on the Estimating Number of Users Associate in a WLAN Using Error- Prone Channel.....	3708
<i>Haider M. AlSabbagh and Ali Amin</i>	
Process Based Application Level Architecture for RFID System.....	3712
<i>Shiqi Ma, Jiangtao Tang and Dong Wang</i>	
An Improved Lightweight RFID Protocol Using Substring	3717
<i>Lei He, Yong Gan, Zeng-yu Cai and Na-na Li</i>	
Optimization of the Phase Noise of LC VCO in UHF RFID Reader	3721
<i>Wei He, Ping Xu and Zongsheng Lai</i>	
A Finite Retry Limit Analysis of Contention Based Bandwidth Request Mechanism for IEEE 802.16	3725
<i>Yuan Cheng, Yuan Zhang and Xiqi Gao</i>	
Study on Coordinated Distributed Scheduling in WiMAX Mesh Network.....	3731
<i>Ming Zhang, Suoping Wang and Tao He</i>	
Research of RFID Middleware Publish/Subscribe Mechanism Based on SOA	3735
<i>Jian Yu and Shengli Lai</i>	
A Trust-Third-Party Based Key Management Protocol for Secure Mobile RFID Service	3740
<i>Bai Enjian, Ge Huayong, Wu Kejia and Zhang Wen</i>	
A General Inter-AP Handoff Model for the Express Mobile Gateway	3745
<i>Fumin Zou and Shuling Zhang</i>	
Test and Analysis of Passive UHF RFID Readability in Multipath Environments	3749
<i>Hong gang Wang, Chang xing Pei and Qiao Pan</i>	
Shunt Resistance Variation for a Constant Power Supply in UHF RFID Tags	3754
<i>E. Colin, A. Moretto, S. Abou Chakra and C. Ripoll</i>	
A Novel Load Balancing Algorithm in IEEE 802.11 Wireless LANs with Cell Breathing	3758
<i>Yun Li, Hong Ji, Xi Li and Daojin Cai</i>	
QoS Performances of IEEE 802.11 EDCA and DCF: A Testbed Approach	3762
<i>Saty Mukherjee, Xiao-Hong Peng and Qiang Gao</i>	
An Improved MIEhD Backoff Algorithm in IEEE 802.11 MAC Layer	3767
<i>Yongbo Ma, Zhiyi Fang, Yunchun Zhang and Jianli Zhang</i>	
Budget Analysis of RF Transceiver Used in 5.8GHz RFID Reader Based on the ETC-DSRC National Specifications of China.....	3771
<i>Bin Luo and Peng Li</i>	
A Revised One-Way Hash Based Low-Cost Authentication Protocol in RFID System	3774
<i>Zhi-wei Jiang, Xiao-yan Shao, Lei He and Tao Zhang</i>	
An Improved A-SRAC Authentication Protocol in RFID System.....	3778
<i>Lei He, Yong Gan, Na-na Li and Tao Zhang</i>	
Reflective Interference in Passive RFID Localization and the Improvement Method	3782
<i>Xu-Rui Mao, Qing-Gang Liu and Lu-Hong Mao</i>	
A Hybrid Power-Saving Algorithm Based on Linear Growth in IEEE 802.16e	3786
<i>Qing Liao, Jingling Zhao and Xiaoling Wang</i>	
The Road Lighting Control Technology Research Base on Ubiquitous Network.....	3790
<i>Yong Wu, Xiumin Chu, Qing Wu and Long Li</i>	
Key Issues of RFID Reader Network System	3794
<i>Leian Liu, Dashun Yan, Jiapei Wu and Hongjiang Wang</i>	
Urgency and Proficiency Based Packet Scheduling & CAC Method for IEEE 802.16	3799
<i>Sadia Murawwat, Sadaf Aslam and Farhat Saleemi</i>	
The Wireless Channel Modeling for RFID System with OPNET	3803
<i>Dongkai Yang and Wenli Liu</i>	
Design of 5.8 GHz Dielectric Resonator Oscillator Applied in Electronic Toll Collection.....	3806
<i>Bing Sun, Yiqiang Wu, Bin Luo and Guoping Du</i>	

SESSION 12 – NETWORK PROTOCOL AND CONGESTION CONTROL

Performance Research of MIPv6 and Extended Protocols in the Process of Handover	3809
<i>Yun Li, Yi-sheng Zhao, Qi-lie Liu and Feng Wen</i>	
An Optimized Algorithm for Overload Control of SIP Signaling Network	3813
<i>Jie Yang, Fei Huang and ShuZhi Gou</i>	
Mobility Support for Intermittently Connected Mobile Terminals.....	3817
<i>Yang Xia, Chai Kiat Yeo and Bu Sung Lee</i>	
Study on Topology Design for Large Scale Service Overlay Networks.....	3821
<i>Dong Zhang, Chunming Wu, Wei Xiong and Ming Jiang</i>	
A New Protocol to Improve Wireless TCP Performance and Its Implementation	3825
<i>Yongmei Luo, Zhigang Jin and Ximan Zhao</i>	
LPDHT: A Locality-Aware and Partitioned-Space Architecture for Peer-to-Peer SIP.....	3829
<i>Wei Mi, Chunhong Zhang, Xiaofeng Qiu, Lichun Li, Yan Wang and Yang Ji</i>	
VCG Auction Based Hierarchical Bandwidth Sharing Scheme for Integrated Heterogeneous Networks	3833
<i>Ming Li, Hong Ji and Xi Li</i>	
A DHCPv6 Based MAP Selection Scheme for Hierarchical Mobile IPv6.....	3837
<i>Xiaolei Tie, Hancheng Lu, Peilin Hong, Kaiping Xue and Bin Zhu</i>	
A Performance Evaluation of IPv6-Based Network Mobility Management.....	3843
<i>Bo Hu, Shanzhi Chen, Qinxue Sun and Yong Jiang</i>	
A Distributed k-Anycast Routing Protocol Based on Mobile Agents	3847
<i>Xin Xu, Yun-li Gu, Jie Du and Huan-yan Qian</i>	
Research of TCP Based on BP NN and Display Feedback Mechanism	3851
<i>Chang-qing Gong, Fu-liang Wang, Yi Liang and Ying Li</i>	
State of the Art and Challenges on Peer-to-Peer Simulators.....	3855
<i>Dengyi Zhang, Xuhui Chen and Hongyun Yang</i>	
Binary Search on Prefix Covered Levels for IP Address Lookup	3859
<i>Guosheng Zhu, Shaohua Yu and JinYou Dai</i>	
A TCP Enhanced Scheme Based on Bottleneck Bandwidth Estimation for Satellite Links	3863
<i>Zhizhong Yin, Jiguang Zhang, Xianwei Zhou and Qiwu Wu</i>	
Parameters Setting Scheme of RED with Long-Range Dependent Traffic Input.....	3867
<i>Xianhai Tan and Yuanhui Huang</i>	
An Energy-Aware Geographic Routing Algorithm for Mobile Ad Hoc Network	3871
<i>Guodong Wang and Gang Wang</i>	
Cross-Layer Design: A Software Engineering Perspective.....	3875
<i>Hua Guo, Wu Ye, Suili Feng and Hongcheng Zhuang</i>	
An Implementation of Vertical Handoff in Heterogeneous Networks	3879
<i>Qinxue Sun, Bo Hu, Shanzhi Chen and Jingjing Zhang</i>	
IDMA-Based MAC Protocol for Next-Generation Satellite Networks.....	3883
<i>Gong-Liang Liu, Xiu-Hong Wang, Hui-Xiao Ma and Xing-Peng Mao</i>	
NBean: A HeteroPastry-Based P2P Proxy System	3887
<i>Weiji Wu, Tao Zheng and Xitong Ning</i>	
A Segment Based SACK Scheme for Wireless TCP.....	3892
<i>Lin Cui, Jun Song, Choong Seon Hong and Seok Joo Koh</i>	
A Simulation Package for Hot-Spot Traffic Relief in WCDMA Networks.....	3896
<i>Yapeng Wang, Xu Yang, Ning Lu and Athen Ma</i>	
A Receiver Centric Congestion Control Mechanism.....	3901
<i>Kai Shi, Yantai Shu and Oliver Yang</i>	
An Optimized Design Method of TCP over Hybrid Networks.....	3905
<i>Jin-zhong Ma and Jin Ye</i>	
Coordinating Fast Handover and Route Optimization in Proxy Mobile IPv6.....	3909
<i>Yumei Wang, Yufei Feng and Lin Zhang</i>	
Maximum Throughput of ALOHA Employing Multiple Antenna Technique	3913
<i>Konglit Hunchangsith, Marek E. Bialkowski, Marius Portmann and Xia Liu</i>	
A Study of Transmission Control Protocol for Satellite Network	3917
<i>Liang Yu and Ji-liu Zhou</i>	
An Efficient Energy Routing Algorithm Based on Dynamic Programming in Wireless Sensor Networks	3923
<i>Zeshun Zhou, Layuan Li, Yi Xu and Xiangli Wang</i>	
A Novel Split-Connection Mechanism Based on Satellite Transport Protocol.....	3927
<i>Shengbo Hu</i>	
An Improvement of the Ant Colony Optimization Algorithm for Solving Travelling Salesman Problem (TSP).....	3931
<i>Tiankun Li, Wanzhong Chen, Xin Zheng and Zhuo Zhang</i>	
Research on a Improved Reliable Multicast Protocol in HF Data Communication.....	3934
<i>Yuan Jing, Peng Cao and Guo-ce Huang</i>	
A Performance Analysis of the AoE Protocol	3938
<i>Cailan Zhou and Chuang He</i>	
The Research on the Application of an Improved Algorithm in the Zigbee Network.....	3942
<i>Tiankun Li, Wanzhong Chen, Xin Zheng and Zhuo Zhang</i>	
An Optimal ARQ Timer Design of File Delivery Time in CFDP NAK Model.....	3946
<i>Jian Jiao, Qinyu Zhang and Hui Li</i>	

Parameter γ Conditions for Stability of FAST TCP	3951
<i>Wei Liang, Shunyi Zhang, Xiangyan Ning, Yanfei Sun and Jinyi Chang</i>	
A Packet Loss Discrimination Algorithm in Wireless IP Networks	3955
<i>Hai-tao Zhao, Yu-ning Dong and Yang Li</i>	
A Fair Accountability Protocol and Its Security Properties Analysis	3959
<i>Li Chen and Huaqiang Li</i>	
Reliable On-Demand Geographic Routing Protocol Resolving Network Disconnection for VANET	3963
<i>Zhigang Jin, Ningxiao Yan and Bing Li</i>	
A Coordinated Channel Reservation MAC Protocol for Dynamic Spectrum Access Networks	3967
<i>Chi-Ming Wong and Wen-Pin Hsu</i>	
Dynamic Relay Selection for ARQ Protocol in Wireless Cooperative Networks	3971
<i>Jun Zhang, Chao Zhang, Lei Wang and Guo Wei</i>	
Dynamic Cache Allocation Algorithm and Replacement Policy for Reliable Multicast Network	3975
<i>Jingyu Zhang, Zhishu Li and Liangyin Chen</i>	
An Efficient Code Distribution Protocol for OTAP in WSNs	3980
<i>Ting Wen, Zhi Li and Qiao-feng Li</i>	
New Routing Update Mechanisms of Kademlia	3984
<i>Bin Hou, Gang Liu, Weihai Li and Zheng Zhang</i>	
Directional Forward Epidemic Routing for Disruption Tolerant Networks	3988
<i>Xin Wang, Yantai Shu, Zhigang Jin and Huan Chen</i>	
TB Chord: An Improved Routing Algorithm to Chord Based on Topology-Aware and Bi-Dimensional Lookup Method	3992
<i>Wei Lv, Qing Liao, Jingling Zhao and Yonggang Xiao</i>	
A Loss Differentiation Algorithm Based on ECN and Its Emulation in Linux	3996
<i>Jin Ye, Jianxin Wang, Yinhang Yuan and Jiawei Huang</i>	
A Scheduling Algorithm for Improving Fairness between Uplink TCP Flows	4000
<i>Xueyong Li, Jiawei Huang, Jianxin Wang and Jin Ye</i>	
Heuristic Based Multi-Hierarchy Passive Optical Network Planning	4004
<i>Miao Lv and Xue Chen</i>	
Research on Congestion Control Model and Algorithm for High-Speed Network Based on Genetic Neural Network and Intelligent PID	4008
<i>Laisheng Xiao, Zhengxia Wang and Xiaohong Peng</i>	
A Scheme for P2P Optimization in Access Network	4014
<i>Dongchao Ma, Xue Chen, Ning Wang and Nan Zhang</i>	
Method for Saving Energy in Zigbee Network	4020
<i>YiGong Peng, YingLi Li, ZhongCheng Lu and JinShou Yu</i>	
Vertical Handoff Decision Strategy in Wireless Overlay Networks	4023
<i>Yutao Ling, Benshun Yi and Qiuping Zhu</i>	
Popularity Based Mobile Peer-to-Peer Search Mechanism	4026
<i>Bo Huang and Huai-xi Chen</i>	
Cascaded Packet Transfer Schemes to Improve Wireless T-MPLS Network Bandwidth Efficiency	4030
<i>Bin Li, Yongjun Zhang, Shanguo Huang, Wanyi Gu and Yunxiao Zu</i>	
Sub-Path Congestion Control in CMT	4034
<i>Jiemin Liu and Yuchun Ma</i>	
An Enhanced TCP Veno over Wireless Local Area Networks	4038
<i>Shifeng Xiao, Zehua Gao, Feng Gao, Nan Wang and Ronghua Zhao</i>	
A Dynamic Flexibly-Adjusted Flow Control Mechanism on ForCES Router	4042
<i>Zhaogui Jiang, Weiming Wang and Bin Zhuge</i>	
Analysis on Threshold of Half-Rate for GSM Voice Services	4046
<i>Zhipeng Dong, Zehua Gao, Feng Gao, Liu Wen and Di Tang</i>	
A Novel Congestion Control Algorithm Based on Adaptive Traffic Delay	4051
<i>Xueshun Wang, Shao-hua Yu, Ting Luo, Ning Xu, Xueshun Wang, Ting Luo and Ning Xu</i>	
Congestion Control Algorithms for a New TCP/UDP Router Based on 2-D Stability Conditions	4056
<i>Yang Xiao, Lei Wang, Jun Niu, Seok Woo and Kiseon Kim</i>	
Research on TCP Flavors Performance over TDRS Link	4061
<i>Sheng-lei Zhang, Shu-qian Liu and Mao-guo Liu</i>	
Simulation of MAC Protocol in Near Space Communication Network Based on TDMA	4065
<i>Zi-hang Zhu, Jun Liang, Jiang-ming Yu and Hui Zhao</i>	
An Network Reconfiguration Strategy for Customer Requirements Optimization	4069
<i>Ming Zhang, Chenglong Gong and Yanhong Lu</i>	
An Adaptive MAC Protocol for LEO Satellites Network	4073
<i>Mingxiang Guan, Ruichun Wang and Handong Gong</i>	
Improved TCP Reno Protocol Based on RTT	4077
<i>Weina Hou, Feifei Hu, Pu Gong, Yun Li and Qianbin Chen</i>	
A More Efficient Diffusing Update Algorithm For Loop-Free Routing	4081
<i>Chuanqiang Zhao, Yuanan Liu and Kaiming Liu</i>	
Adaptive Sampling Measurement for High Speed Network Traffic Flow	4085
<i>Yong Gan, Yong Zhang and Depei Qian</i>	
Research on Direction Search Algorithm Based on LAN Agent in P2P Network	4089
<i>Lifeng Wang, Zhiyi Fang, Xiaonan Liu, Zhuang Liu and Huanhuan Tang</i>	

DTDS: LAN Agent-Based Dynamic Transmit Direction Search Algorithm in P2P Network	4093
<i>Zhuang Liu, Zhiyi Fang, Xiaonan Liu and Huanhuan Tang</i>	
Multi-Stream Opportunistic Routing Protocol for Multi-Hop Wireless Networks	4097
<i>Shuang Yuan, Muqing Wu and Yan Zhen</i>	
One Method for Optimizing Network Efficiency Based on Resource Allocation	4100
<i>Rui Li, Hui-gui Rong, HanWu Wang and Yi Wang</i>	
LMA/HA Discovery Mechanism on the Interaction between MIPv6 and PMIPv6	4104
<i>Hua Guo, Lingjiao Wang, Bin Duan, Chuan Liu and Zhengchun Liu</i>	
Fast IP Network Recovery Using Imperative-Forwarding-Path Routing	4108
<i>Shu-wen Pan, Shan-zhi Chen and Xin Li</i>	
Incentive Compatible Mechanism in P2P Systems	4112
<i>Qingjie Wang, Jian Yu, Mei Yu, Jie Zhang and Zheng Zhao</i>	
The Design and Implementation of CANopen Protocol Intelligent Analysis System	4116
<i>Aibing Ye and Huayao Zheng</i>	
Formal Analysis and Improvement of Multi-Party Non-Repudiation Protocol	4120
<i>Xueming Wang</i>	
A Simple Iterative Algorithm to Achieve Utility Proportional Fairness	4124
<i>Ying-ze Ye and Ying Zhang</i>	
Routing Across Bad Node in the Application of AODVjr Local Repair Mechanism	4128
<i>Yuan Xu, Shu-bo Qiu and Meng Hou</i>	
Information Model and Communication Protocol for Remote Monitoring of Power Supply	4132
<i>Huiran Wang and Ruifang Ma</i>	
A RF-IPS Algorithm for Peer-to-Peer Video-on-Demand System	4136
<i>Zhiyi Qu, Lili Li, Yong Chen and Shen Wang</i>	
QE Modeling and Test Selection Based on PNFSM	4140
<i>Lingling Wang, Hua Li, Xinming Ye and Chengyong Wu</i>	
Design of Parallel Packet Switch Simulation System Based on NS2	4144
<i>Fan Yang, Zhen-kai Wang, Jian-ya Chen and Yun-jie Liu</i>	
A Credibility-Based Congestion Control Method	4148
<i>Shu-juan Wang and Man-gui Liang</i>	
Performance Optimization of Multiple-Relay Decode-and-Forward Cooperation System	4153
<i>Bo Yang, Hongyi Yu and Qiang Feng</i>	
Declarative Composition Routing Protocols Adaptation in MANET Using Rough Set Theory	4157
<i>Wenwu Qu</i>	
The Important Impact of Energy in 802.11e EDCA Network	4161
<i>Zhang Nan, Xiao Yang, Wang Lei and Kiseon Kim</i>	
A Fast-Roaming Authentication Method Using ID-Based Encryption for the 3G User Roaming between WLANs	4165
<i>Ze Wang, Yan Zhang, Wenju Liu and Yongzhen Ke</i>	
MAC Protocol Design for Broadband Multimedia Satellite System	4169
<i>Shaodong Feng, Fan Wang, Dongming Bian and Guangxia Li</i>	

SESSION 13 – QOS AND TRAFFIC ANALYSIS

Decision Tree Network Traffic Classifier Via Adaptive Hierarchical Clustering for Imperfect Training Dataset	4173
<i>Ping Lin, Zhenming Lei, Luying Chen, Jie Yang and Fang Liu</i>	
Estimating Internet Path Properties for Distributed Applications	4179
<i>Changyou Xing, Li Yang and Ming Chen</i>	
Utility-Based Resource Allocation for Soft QoS Traffic in Wireless Networks	4183
<i>Cao Yuan, Hongcai Feng, Yaqin Li and Zhongxun Zhu</i>	
A New Deterministic Linear Network Coding and Its Application on Multicast Network	4187
<i>Kun Hao and Zhigang Jin</i>	
Provision and Analysis of QoS for Distributed Grid Applications	4191
<i>Dong Guan, Zixing Cai and Zhizhou Kong</i>	
Predictive Channel Scanning over WLAN	4195
<i>Xue-gang Yu, Yan-xi She, Bin Li, Lingyin Lei and Shufen Lang</i>	
An Improved Multiple Objectives Optimization of QoS Routing Algorithm Base on Genetic Algorithm	4200
<i>Xueshun Wang, Shao-hua Yu, Ting Luo, JinYou Dai, Xueshun Wang, Ting Luo, and JinYou Dai</i>	
A System for Fast Positioning SLA Violations	4204
<i>Huiji Zhang, ZhiPeng Gao and Wenjing Li</i>	
Resources Scheduling of TT&C Network Based on Quantum Genetic Algorithm	4207
<i>Chang-qing Gong, Bing Zhang and Ying Li</i>	
Contrastive Analysis of P2SP Network and P2P Network	4211
<i>Fang Liu, Peng Liu, Jie Yang and Zhenming Lei</i>	
QoE-Based Busy Time Management Structure for Data Services	4216
<i>Lu Liu and Wen-an Zhou</i>	
QoS-Aware Hierarchical Mobility Management Using QoS NSLP	4220
<i>Jiajia Wang, Mei Song, Daxiong Xu, Chen Gu, Yi Man and Zhijun Ren</i>	
An On-Line Routing Algorithm Based on the Off-Line Optimal Computing in MPLS	4224
<i>Kun Hao and Zhigang Jin</i>	

Distributed P2P Traffic Identification Method	4229
<i>Bo Xu, Ming Chen and Lan Fei</i>	
Address Difference Label Routing Protocol for Diffserv Network	4233
<i>Gang Yu, Jinmao Wei and Li Gu</i>	
Simulation-Based Estimate of QoS for Voice Traffic over WCDMA Radio Links	4236
<i>K. Sam Shanmugan</i>	
Hybrid Model Network Simulation and Its Implementation in NS-2	4240
<i>Yongmei Luo, Zhigang Jin and Ximan Zhao</i>	
The Hurst Index Estimation and Network Performance Analysis Based on ON/OFF Model	4244
<i>Xiao Yan Ma</i>	
Research and Design on Peer Selection Strategy of P2P Streaming	4249
<i>Chuntao Lu, Huyin Zhang and Lijun Sheng</i>	
A Network Traffic Identification Method Based on Finite State Machine	4253
<i>Bo Xu, Ming Chen, Changyou Xing and Guomin Zhang</i>	
A Novel Peer Relay Lookup Scheme for SIP+P2P VoIP System	4257
<i>Xiuwu Zhang, Weimin Lei and Peipei Chen</i>	
Traffic Analysis of P2P IPTV and Comparison with BT-Like Application Based on Live Measurement	4262
<i>Bing Li, Zhigang Jin and Maode Ma</i>	
VoIP Traffic Capacity Estimation of Hybrid Network Based on Finite User Timely Refuse Model	4266
<i>Pan Wang, Shun-Yi Zhang and Xue-Jiao Chen</i>	
A Combined Fair Scheduling Algorithm for Combined-Input-Crosspoint-Queued Switch	4270
<i>Ning Xu, Shaohua Yu and Xueshun Wang</i>	
Performance Analysis of the Cognitive Radio Network with a Call Level Queue for Secondary Users	4274
<i>Min Zhang, Shengming Jiang, Gang Wei and Hongjiang Wang</i>	
QoS-Adaptive Bandwidth Allocation Scheme Based on Measurement Report Real-Time Analysis	4278
<i>Hao Wang, Furong Wang, Zhiwu Ke and Zhe Guo</i>	
The Application of Ant Colony Algorithm on Mobile Multicast Routing	4282
<i>Wenyong Liu, Kewen Li and Jing Tian</i>	
A Parallel Packet Switch Supporting Differentiated QoS Based on Weighted Layer Assignment	4286
<i>Fan Yang, Zhen-kai Wang, Jian-ya Chen and Yun-jie Liu</i>	
Research on Service Level of City Railway Transport Hub	4290
<i>Huanyu Zhang, Liangjie Xu and Jun Lin</i>	
A Cooperative Strategy for Transmitting Data Traffic in Hotspot Cellular Mobile Communications	4294
<i>Leixin Mai, Xiaowei Qin and Xuchu Dai</i>	
Research of Traffic Modeling for Future Wireless Networks	4298
<i>Sheng Xu, Xiaohui Chen, Weidong Wang, Guo Wei and Dongjin Wang</i>	
Randomness Betters Nearest-Rarest in the P2P Clustering Networks	4304
<i>Jia Cao, Hongxiao Zheng and Jinsheng Yuan</i>	
Estimation of Network Traffic Hurst Parameter Using HHT and Wavelet Transform	4308
<i>Xiaorong Cheng, Kun Xie and Dong Wang</i>	
A Frame Bit Allocation Algorithm in Mobile P2P Overlay Network	4312
<i>Mande Xie</i>	
Optimal Cross-Layer Performance over MIMO Fading Channel with Adaptive Transmission	4316
<i>Xin Liao, Xuehong Sun, Luting Kong and Jun Jiang</i>	
One Method from LRD to SRD	4320
<i>Bo Gao, Qin-yu Zhang, Yong-sheng Liang and Nai-tong Zhang</i>	
Packets Forwarding Based on NP in Multi-FE Environment	4324
<i>Wenyuan Yu, Ligang Dong and Jin Yu</i>	
The QOS of the Edge Router Based on Diffserv/MPLS	4328
<i>Pengxuan Mao, Nan Zhang, Yang Xiao and Kiseon Kim</i>	
The Improvement of Ant Colony Algorithm and Its Application to TSP Problem	4332
<i>Jin Zhang, Huaishan Liu, Siyou Tong and Ling Wang</i>	
An Advanced Scheduling Algorithm in OFDM Wireless Communication Systems	4336
<i>Wenwen Liu, Shixiang Shao, Longxiang Yang and Hongbo Zhu</i>	
Research on Packet Convergence Sublayer Classifier in WiMAX System	4340
<i>Yan Zhu, Jiaming He, Qingbo Zhang and He Huang</i>	
Model and Algorithm of Tencent's Voice Service Identification Based on SAT: Session Association Technology	4344
<i>Pan Wang, Shun-Yi Zhang and Xue-Jiao Chen</i>	
Application of QoS Based Grid Task Scheduling to On-Line Examination System	4349
<i>Zhengli Zhu, Yingkun Hou and Xiao Qian</i>	
Research of Replication in Unstructured P2P Network	4352
<i>Yi Fang, Lin Huo and Heping Hu</i>	
A New Traffic Engineering Routing Algorithm for MPLS Networks	4356
<i>Na Lin, Wan-fang Lv and Tao Yang</i>	
A Multi-Constrained Quality of Service Routing Algorithm Based on Vector Converting	4360
<i>Fu-sheng Dai and Ai-jun Liu</i>	
Application QoS for Video: Benchmarking, Control Strategies and Business Systems	4364
<i>Shuai Hao, Xiaohong Huang and Yan Ma</i>	
Multiple Paths Selection Algorithm for DiffServ-Aware MPLS Traffic Engineering	4368
<i>Wu-Hsiao Hsu, Sheng-Cheng Yeh, Tsz-Heng Guo and Hia-Hui Wang</i>	

Research and Simulation of Improved DiffServ Network	4372
<i>Na Lin, Xue-ming Guan and Li-xue Song</i>	
Research and Analysis of the Optimization of the Unstructured P2P Overlay Networks	4376
<i>Zheng He and Yan Ma</i>	
Optimization Scheme for QoS Provisioning in Multimedia Wireless Networks.....	4380
<i>Yutao Ling, ZhongJian Zhang, Jianbin Wu and Yuan Yao</i>	

SESSION 14 – NETWORK SECURITY

Dynamical Immunological Surveillance for Network Danger Evaluation Model.....	4384
<i>Jin Yang, Yi Liu, JianJun Wang, JianDong Zhang and Bin Li</i>	
Secure Route Selection Based on Trust Territories for Ad Hoc Networks.....	4388
<i>Zhongying Bai and Yuan Bai</i>	
Hybrid Detector Based Negative Selection Algorithm	4392
<i>Bin Xu and Yi Zhuang</i>	
Distributed Architecture for Intrusion Detection System Based on Multi-SoftMan	4396
<i>Zhanfei Ma, Xuefeng Zheng, Dongkui Li, Xuebao Li and Liping Yang</i>	
QuIT: Quantitative IP Traceback	4400
<i>Shidong Dai and Xing Li</i>	
A Dynamic Normal Profiling for Anomaly Detection	4404
<i>Shenzheng Zuo</i>	
The Research of NIDS Based on Improved GA	4408
<i>Pei-li Qiao, Shi-feng Chen and Jie Su</i>	
A Master-Slave Recommended Credibility Model in Mobile P2P Based on Chord.....	4412
<i>Haitao Qu, Meina Song, Rihua Wang, Wu Qu and Junde Song</i>	
Mutation-Based Testing of Integer Overflow Vulnerabilities	4416
<i>Fanping Zeng, Liangliang Mao, Zhide Chen and Qing Cao</i>	
A Security-Enhanced Remote Platform Integrity Attestation Scheme	4420
<i>Song Cheng, Liu Bing, Xin Yang, Yang Yixian, Zhongxian Li and Yin Han</i>	
A Certificateless-Based Key Distribution Scheme with Multi-KGCs In P2P Networks	4424
<i>Chen Liang</i>	
The Technology and Practice of Comprehensive Information Security Management for Wireless Mobile Environment.....	4428
<i>Wen Long, Yang Xin, Yixian Yang and Zhongxian Li</i>	
Evaluation of Quality of Protection Adding HVM in Wireless Network.....	4432
<i>Sun-Hee Lim, Hyeon-Seung Kim, Seunghwan Yun, Jin-Woong Cho, Okyeon Yi and Jongin Lim</i>	
An Autonomous Road Side Infrastructure Based System in Secure VANETs	4436
<i>Wenmao Liu, Hongli Zhang and Weizhe Zhang</i>	
A New Sequential Multi-Signature Scheme with Signers' Intentions	4442
<i>Ping Wang and Bing Han</i>	
An Risk Measurement Model for Assessing Information Systems	4446
<i>Yong li Tang and Yi qi Dai</i>	
A Strong Designated Verifier Ring Signcryption Scheme	4450
<i>Shengju Han, Huaqun Wang and Xiukun Wang</i>	
Study of Neural Network Technologies in Intrusion Detection Systems.....	4454
<i>Yanwei Fu, Yingying Zhu and Haiyang Yu</i>	
A Certificate Revocation Scheme for Space Network	4458
<i>Yanbin Qian, Binghua Cao, Xingyuan Chen and Xuehui Du</i>	
An Sub-Signature Verification Protocol Using (t, k) Threshold RSA Signature without Trusted Center	4463
<i>Yanjiong Wang, Qiaoyan Wen and Hua Zhang</i>	
Modeling and Analysis Malware Spread in Short-Range Wireless Networks	4466
<i>Shuai Fu, Chang-guang Wang, Li-jing Bai, Qing-yang Hu and Jian-feng Ma</i>	
A Novel Dynamic Immunization Model Basing on Alarm Information	4470
<i>Tianlu Yang, Kangfeng Zheng, Yixian Yang and Guoai Xu</i>	
A Multi-Role Authorization Method Used in Heterogeneous Wireless Network.....	4474
<i>Wenjing Ma, Mei Song, Jiajia Wang, Jianqing Wu, Zhijun Ren and Junde Song</i>	
AHP-Based Measurement and Comparison of Harms of Computer Virus	4478
<i>Lansheng Han, Qiwen Liu, Mengsong Zou, Dongfang Guo and Cai Fu</i>	
A Bidirectional-Based DDoS Detection Mechanism.....	4482
<i>Chao Liu and Shunyi Zhang</i>	
Model Checking the SET Purchasing Process Protocol with SPIN.....	4486
<i>Jing Li and Jinhua Li</i>	
Cryptanalysis of a Remote User Authentication Scheme Using Smart Cards	4490
<i>Kai Huang, Qingyu Ou, Xiaoping Wu and Yexin Song</i>	
Improving the Fixed-Line Access Security for IMS	4494
<i>Chen Liu and Dong Wang</i>	
Policy-Based Behavior Control	4498
<i>Zhi Lin, Jing Wang and Lian-xing Jia</i>	

Design of a Four-Layer IDS Model Based on Immune Danger Theory	4502
<i>Song Yuan, Qi-juan Chen and Peng Li</i>	
One Extension of Authentication Test Based on Strand Space Model	4506
<i>Guangquan Zhang, Mei Rong and Yanping Fang</i>	
Security Analysis for SOA-SCA Based SDO and Solutions for 3 Capability Problems.....	4510
<i>Junyi Deng, Zhiyi Fang, Yongbo Ma, Peng Xu and Xingchao An</i>	
Monitoring Architecture for UMTS Networks	4514
<i>Zhongyuan Qin, Jie Huang and Qiuhui He</i>	
Construction and Application of Network Security Defense Model	4518
<i>Juan Li, Hou-xiang Wang, Ruo-fei Han and Xiao-pei Jing</i>	
Low-Speed Wireless Networks Research and Simulation Based on RC5	4521
<i>Chou Fan, Jin Tan and Peng Zheng</i>	
Multilevel Event Correlation Based on Collaboration and Temporal Causal Correlation	4525
<i>Ting Gu, Debao Xiao, Xuejiao Liu and Xue Xia</i>	
An Authentication Method for Self Nodes Based on Watermarking in Wireless Sensor Networks.....	4529
<i>Xiaomei Dong and Xiaohua Li</i>	
Semantics Based Information Trust Computation and Propagation Algorithm for Semantic Web	4533
<i>Bo Zhang, Yang Xiang and Qiang Xu</i>	
The Simulation and Comparison of Routing Attacks on DSR Protocol	4537
<i>Jiwen Cai, Ping Yi, Ye Tian, Yongkai Zhou and Ning Liu</i>	
A New Authentication and Key Exchange Protocol for Insecure Networks.....	4541
<i>H. Fereidooni, H. Taheri and M. Mahramian</i>	
An Improved WaveCluster Algorithm Based on ICA.....	4545
<i>Xiaoli Li and Min Luo</i>	
The Research on Enhanced Cost-Based Auto Intrusion Response Decision	4550
<i>Min Sun and Yu Guo</i>	
Improving Anti-Detection/Interception Performance for Wireless Sensor Network Based on Time-Reversal Technology	4554
<i>De Li, Jing-song Hong and Bing-zhong Wang</i>	
Analyze and Improvement of BM Algorithm.....	4558
<i>Tong Yang, Si-si Wang, Xiang-dong Qiao and Qi Chen</i>	
A Model for Web Services Composition Based on QoS and Providers' Benefit	4562
<i>Zhenpeng Liu, Junbao Liu, Jimin Li, Aiguo An and Jianmin Xu</i>	
Design of a Danger Signal Detecting Model Based on Fuzzy-Set.....	4566
<i>Haidong Fu and Chunxiang Zhang</i>	
Method of Detecting the Sybil Attack Based on Ranging in Wireless Sensor Network	4569
<i>Xiu-li Ren and Wei Yang</i>	
A Novel Image Cryptosystem with Multiple Chaotic Maps	4573
<i>Jin Huang and Min Long</i>	
Test Case Generation Based on Invariant Extraction.....	4577
<i>Fanping Zeng, Qing Cao, Liangliang Mao and Zhide Chen</i>	
Role-Based Collaboration Model of Security Devices	4581
<i>Bing Liu, Cheng Song, Yang Xin, Yixian Yang, Shaobin Wang and Jiwei Wei</i>	
An Area Optimized Implementation of Cryptographic Algorithm RC5.....	4585
<i>Jing Liang, Qin Wang, Yue Qi and Feng Yu</i>	
Traceback-Based Bloomfilter IPS in Defending SYN Flooding Attack	4589
<i>Huan-rong Tang, Chao Xu, Xin-gao Luo and Jian-quan OuYang</i>	
New Detection of Peer-to-Peer Controlled Bots on the Host	4595
<i>Fei Chen, Mingli Wang, Yan Fu and Jinquan Zeng</i>	
Identity-Based Authentication Protocol with Paring of Tate on WSN.....	4599
<i>Wei-hong Wang, Yi-ling Cui and Tie-ming Chen</i>	
Security and Seamless Mobility Based Architecture for Hybrid Network of Enterprise	4603
<i>Jingling Zhao, Jinjun Pan and Liming Hou</i>	
Study of the Security Mechanism for Packet Radio Network Based on MIL-STD 188-220C.....	4607
<i>Fei Gao, Ruxin Zhi and Jie Yang</i>	
Network Security Situation Generation and Evaluation Based on Heterogeneous Sensor Fusion.....	4611
<i>Xiaowu Liu, Jiguo Yu and MaoLi Wang</i>	
A Fault Injection Approach Based on Operational Profile	4615
<i>Fanping Zeng, Juan Li, Ling Li and Xufa Wang</i>	
The Research of DDoS Attack Detecting Algorithm Based on the Feature of the Traffic	4619
<i>Jiang Feng and Yuan Liu</i>	
A Secret Sharing Scheme Based on NTRU Algorithm.....	4623
<i>ShanYue Bu and Hong Zhou</i>	
Protocol Analysis through Alternating-Time Temporal Logic and Timed Petri Net Models	4627
<i>Shigong Long</i>	
An Intrusive Intention Recognition Model Based on Network Security States Graph	4631
<i>Zhigang Wang and Wu Peng</i>	
Secure Access of Smart Cards Using Elliptic Curve Cryptosystems.....	4635
<i>Kakali Chatterjee and Daya Gupta</i>	

Applied Research on Quantum Key Distribution Technology in Distributed Space TT&C Network	4639
<i>Chang-qing Gong, Yuan-qing Bai, Hong-yuan Zhou and Jian-li Feng</i>	
MQPSO Based on Wavelet Neural Network for Network Anomaly Detection	4643
<i>Li-li Liu and Yuan Liu</i>	
Efficient Mobile IP Registration in Certificateless Public Key Infrastructure Without Pairing	4648
<i>Manjun Zhang, Changxing Pei and Lanjun Dang</i>	
Detecting Conflict Policy Rules with Concept Lattice	4652
<i>Suyun Jiao, Yanheng Liu, Xin Qi, Yaoqiang Zhu and Juan Wang</i>	
Worm Propagation Modeling Based on Two-Factor Model	4656
<i>Fei Su, Zhaowen Lin and Yan Ma</i>	
Study and Implementation of Distributed Intrusion Detection System Based on Anycast Service	4660
<i>Xiaonan Wang</i>	
A Threshold Proxy Signature Scheme from Bilinear Pairings	4664
<i>Dianjun Lu, Bingru Zhang, Haixing Zhao and Xinyan Li</i>	
Application Research of the CAN on Role-Based Access Control	4668
<i>Shi-hong Qin, Qing Zhao, Zhou Ge and Huanhuan Li</i>	
Research on the Authentication Mechanism for 3G Mobile Communication System	4671
<i>Yonghui Yang, Xuebo Chen, Chuang Gao and Lidong Wang</i>	
Network Security Assessment Based on Fuzzy Sets and Rough Sets	4674
<i>Rui Li and Yi Yang</i>	
Local Area Network Anomaly Detection Using Association Rules Mining	4678
<i>Xiaolei Li, Yun Zhang and Xun Li</i>	

SESSION 15 – MULTIMEDIA IN WIRELESS NETWORKS

Performance Evaluation of IMS-Based Push-to-Talk Service over Multiple Wireless Access Networks	4683
<i>Xing Zhou and Meilian Lu</i>	
Improvements on Sparse Coding Shrinkage and Contourlet Transform for Image Denosing	4688
<i>Xin-hua Yu, Fu-ming Zhang, Zhan-qing Wang and Fu-dong Ye</i>	
A Finite Queuing Adaptive Time-Threshold-Based Scheme for Cellular Multimedia Networks	4692
<i>Jialin Cai</i>	
Video Codec Optimizations on Cortex A8	4697
<i>Chirantan Kumar, Pranav Mishra, Prachi Choudhary and Kaustubh Joshi</i>	
Design and Implementation of an Intelligence Wireless Multimedia Sensor Networks Node	4701
<i>Xuan He, Qun Hao and Longhai Zhao</i>	
Towards Continuous Surveillance of Fruit Flies Using Sensor Networks and Machine Vision	4705
<i>Yuee Liu, Jinglan Zhang, Mark Richards, Binh Pham, Paul Roe and Anthony Clarke</i>	
A Novel Spatial Error Concealment Method for Wireless Video Transmission	4710
<i>Hongtao Yang and Bo Yan</i>	
Hybrid H.264 Video Transcoding for Bitrate Reduction in Wireless Networks	4714
<i>Min Li and Bo Wang</i>	
Transcoding of H.264 Bitstream to AVS Bitstream	4718
<i>Baoguo Wang, Yunhui Shi and Baocai Yin</i>	
A Adaptive Frame Rate QoS Control in Wireless Video Surveillance System	4722
<i>Chunmiao Yuan, Zhigang Jin and Qingyong Yang</i>	
Research on JPEG Image Retrieval	4726
<i>Zhao Shan and Yan-Xia Liu</i>	
Non-Uniform LDPC for Multi-Bitplane in Distributed Video Coding	4730
<i>Bo Zhang, Guodong Xue, Xiaojun Jing, Lin Zhang and Yu Liu</i>	
A Context-Aware Multicast Approach for Multimedia Applications in Wireless Environment	4734
<i>Chaohui Wang, Yuhong Li, Li Han and Jian Ma</i>	
Prototype Implementation of Multi-Interface Management and Application Flow Redirection	4738
<i>Jen-Yi Pan, Ting-Wei Hsu and Hsin-Mao Wang</i>	
Channel Assignment Scheme in Hierarchical Cellular System with Multi-Beam Base-Station	4742
<i>Jing Yang and Zu-fan Zhang</i>	
A New Type of Automatic Ship Detection Method	4746
<i>Zhuo Chen</i>	
An Efficient H.264 Transcoder with Spatial Downscaling for Wireless Communications	4750
<i>Min Li and Bo Wang</i>	
An Entire Frame Loss Recovery Algorithm for H.264/AVC over Wireless Networks	4754
<i>Min Li and Bo Wang</i>	
A Novel Intelligent Handoff Mechanism in the Heterogeneous Network Platform for Modern Service Industry	4758
<i>Fei Ma, Wen-an Zhou, Lu Liu and Jun-de Song</i>	
Research and Design of a Node of Wireless Multimedia Sensor Network	4762
<i>Tanghuai Fan, Lizhong Xu, Xuewu Zhang and Huibin Wang</i>	
A Study of End-to-End Video Robust Transmission Via WMN	4767
<i>Tanghuai Fan, Lizhong Xu, Xuewu Zhang and Huibin Wang</i>	
Using SIFT for the Filtering of Chinese Text in Image of Multimedia Message Service	4771
<i>ChunXiao Ma, Chuang Zhang and ZhiQing Lin</i>	

A New Backoff Algorithm Based on the Dynamic Modulating Parameters of IEEE 802.11	4775
<i>Jingqi Fu, Qiang Zhang and Haikuan Wang</i>	
An Efficient Packet Scheduling Algorithm to Implement Throughput Differentiation for Wi-Fi Multimedia Devices	4779
<i>Wang Yan</i>	
Efficient Admission Control Scheme to Support QoS in WLANs	4784
<i>Shi Yan, Songgen Jin and Zhiguo Chen</i>	
Wireless VoIP Adaptive Source Rate Control Algorithm	4788
<i>Lulu Wei, Muqing Wu and Dapeng Wu</i>	
A Combination of Data Mining Method with Context-Based State Transfer for Speech/Music Discrimination	4792
<i>Qin Yan, Qiong Wu, Haojiang Deng and Jinlin Wang</i>	
A Historical Connection Information Based Inter-Overlay Optimization Algorithm	4796
<i>Yingsong Hu, Liangbin Chen, Qiang Li and Shengsheng Yu</i>	
A Priority-Based Hierarchical Application Layer Multicast Model	4802
<i>Yingsong Hu, Liangbin Chen, Qiang Li, Min Sun and Shengsheng Yu</i>	
Research on Adaptive FEC for Video Delivery over WLAN	4808
<i>Haiqing Du, Yong Liu, Chang Guo and Yixi Liu</i>	
Multi-Stage Frame Error Concealment Algorithm for H.264/AVC Based on Estimated MB Feature	4812
<i>Ziguan Cui and Xiuchang Zhu</i>	

SESSION 16 – APPLICATIONS AND VALUE-ADDED SERVICES

Research on the High-Tech Project Risk Pre-Warning Index Optimization	4816
<i>Xiaoyu Li and Mingyu Zhang</i>	
Development of the Integrated Target Information System of the Marine Radar and AIS Based on ECDIS	4820
<i>Changchuan Lin, Hai Lin, Lina Li, Jianwen Zhou and Yangping Ou</i>	
Phased-Array Radar Beam Tracking and Predicting	4824
<i>Lin Zhu, Weiji Su, Shuhang Wu, Yue Wang and Xiuming Shan</i>	
Improving Performance of VoIP Services in IEEE 802.16 OFDMA System	4828
<i>Xuan Wang, Ke Yu and Lin Zhang</i>	
A New Design and Application of Time Shift TV	4832
<i>Jie Liu, Yuhao Wang, Honggang Qi, Yi-na Liu and Jun-cai Tao</i>	
Optimal Prefix Cache Allocation among Multiple Cooperative Local Proxies	4836
<i>Dongliang Guan and Gang Xiong</i>	
Research on the Virtual Forecast Method of Background Advertisement Exposal Parameter of Sport Events	4840
<i>Yi Xiao, Yu Liu, Lin Zhang and Nanzhu Li</i>	
A Kind of Genetic Algorithm Based on Compound Mutation Strategy and Performance Study	4844
<i>Fachao Li, Tingyu Zhang and Chenxia Jin</i>	
Application of Pricing and Trust Mechanisms in Grid Resource Allocation	4848
<i>Ming Yang, Yuanan Liu, Xiaolei Ma, Li Li and Peng Hu</i>	
InfoSlim: An Ontology-Content Based Personalized Mobile News Recommendation System	4852
<i>Feng Gao, Yuhong Li, Li Han and Jian Ma</i>	
Integration and Optimization of the Closed-Loop Supply Chain Based on Random Demand and Random Recycling	4856
<i>Cheng Liu and Wei Li</i>	
The Services and Application of MNOs Regarding Mobile Spam in Southeast Asia: Survey and Discussion	4860
<i>Torsten Brodt, Jun Lan and Shahiraa Binti Sahul Hameed</i>	
Variable Precision Rough Set Weight Calculation Based on Web Text Classification	4864
<i>Chang-long Wang and Yan-ming Qi</i>	
Research of Forest Fire in Inner Mongolia Based on CA and GIS	4868
<i>Hongye Yang, Qiaoli He and Yuewen Liu</i>	
Using Inverted Indexing to Semantic WEB Service Discovery Search Model	4872
<i>Bo Zhou, Tinglei Huang, Jie Liu and Meizhou Shen</i>	
Design and Implementation of CTI System Based on TAPI3.x	4876
<i>Zheng-ming Zhu</i>	
Implement Push to Talk Function in WinCE Based Terminals	4880
<i>Yongmei Luo, Zhigang Jin and Ximan Zhao</i>	
On Delay-Dependent Stability for a Class of Linear Neutral Systems	4884
<i>Xiaojia Wang and Shanlin Yang</i>	
The Implementing of Software Configuration Management Based on CMM	4887
<i>Shujun Pei and Deyun Chen</i>	
Analysis of Logistics Financing Risk Based on the Structural Equation Modeling	4891
<i>Juan He, Xiangfeng Chen and Ming Li</i>	
Data Collection Technology and Application Research for N-MT Magnetoelectricity Observation System	4895
<i>Jianguo Wang, Hongjun Dong, Xuegong Xu, Chungui Liu and Gang Zhang</i>	
Emergency Communication for Electric Power System Based on Airship	4900
<i>Ming Huang, Jiang Yu, Jinsong Hu, Ling Zhao and Rong Zong</i>	
Research on Converged Service Composition Based on Extending CSTA Services with OWL-S	4904
<i>Rongqun Peng, Zhengkun Mi and Lingjiao Wang</i>	

Mashup-Based Web Page Adaptation for Small Screen Mobile Device	4908
<i>Yunpeng Xiao, Yang Tao and Qian Li</i>	
Research on SLA Management Model in Service Operation Support System	4912
<i>Ke Xu, Xiaoqi Zhang, Meina Song and Junde Song</i>	
Research on Screening Methods of Single Forecast Model for Combination Forecast Modeling	4916
<i>Dongmei Han and Yin Zhou</i>	
The Research of Event-Triggered Application in Proactive SIM Card	4920
<i>Peng Zhou, Yuhui Xiong, Zishan Meng and Junwei Zou</i>	
The Network Externality and Game-Playing Time Characteristics in Different Types of MMORPGs.....	4924
<i>Hui Peng and Yanli Sun</i>	
Mind Mapping : A Creative Development in Industrial Engineering Education	4928
<i>Chia-Chia Lin and Dong-Her Shih</i>	
A Rich Media Service Architecture Based on 3GPP-DIMS	4932
<i>Xiangbin Han</i>	
Constructing a Remote Monitoring and Control System Based on 3G Mobile Networks	4936
<i>Jing Cai and Kun Liu</i>	
A Rapid & Precise Algorithm Finding Zeros of Polynomials	4940
<i>Hong-bing Zhou and Zhe-zhao Zeng</i>	
Parallel Algorithm Design for Binary Tree Traversing Sequence Based on Coding.....	4944
<i>Gejun Zhu, Yuwan Gu and Yuqiang Sun</i>	
A Choreography Approach for Value-Added Services Creation.....	4948
<i>Jie Guo, Junliang Chen, Bo Cheng and Dong Liu</i>	
Performance Evaluation of IEEE802.11-Based Ad-Hoc Wireless Networks in Vehicular Environments	4952
<i>Yong Shen, Qingquan Zou and Zhimeng Liu</i>	
Using Extended Activity-Network Diagram to Build a Product Design Workflow Model.....	4956
<i>Guohai Zhang, Guanghui Zhou and Pingyu Jiang</i>	
Study on the Earthquake Cooperative Emergency Rescue Auxiliary System	4960
<i>Ze-gen Wang, Yan-mei Yang and Jun-nan Xiong</i>	
Proxy-Based Object Packaging and Compression: A Web Acceleration Scheme for UMTS	4965
<i>Wenxiang Dong, Xiaohui Chen, Sheng Xu, Weidong Wang and Guo Wei</i>	
The Research of Coastal Tide Collection Based on the Integration of CDMA Mobile Wireless Network and GPS-RTK Technology.....	4970
<i>Shengping Wang, Wenxing Long, Jianhu Zhao and Xu Xiong</i>	
A Semantic Web-Based Approach for Performance Management Service Composition.....	4974
<i>Xing Liu, ZhiPeng Gao, QiJian Xu and Xuesong Qiu</i>	
An Acceptance Model of Wireless Mobile Data Services in China: Combining TAM with Consumer Behavior Model	4978
<i>Jing Tan and Jiayin Qi</i>	
A New Idea for Power Distribution Network Planning Using Ant Colony Optimization.....	4982
<i>Jia-mei Zhu and Hong-e Ren</i>	
Environmental Monitoring Using Wireless Vehicular Sensor Networks.....	4986
<i>Kai-Juan Wong, Chee-Cheng Chua and Qingyun Li</i>	
An On-Vehicle Wireless Remote Alarm Platform Based on Image Processing	4990
<i>Qian Chang, Zehong Yang and Yixu Song</i>	
Semantic Matchmaking of Web Services Constraint Conditions	4994
<i>Dong-wei Bai, Ai-guo Fei and Shan-fa Cai</i>	
Tele-Assistance in Cardiology	4999
<i>Yang Liu and Robert Goutte</i>	
Based on MBMS: A General Structure Design of Relay Network for Cellular System.....	5003
<i>Cheng-gang Wang and Wen-jie Wang</i>	
Communication between the RoboCup Agents Based on the Blackboard Model and Observer Pattern.....	5007
<i>Shunxin Li and Fan Hu</i>	
Study on the Dynamic Evolution of Virtual Community Based on Complex Adaptive System	5012
<i>Xianjin Zha and Minghong Chen</i>	
Space Tracking System and Its Key Technological Analyses.....	5016
<i>Tianze Li, Shuyun Wang and Xia Zhang</i>	
Using GSM Technologies to Collect and Supply Expressway Traffic Information	5020
<i>Junqiang Guo, Fasheng Liu, Chengjiang Li and Zhiqiang Zhu</i>	
Study on Collaboration Related Mobile Online Mapping	5024
<i>Lihui Zhang, Jianhua Gong, Dongchuan Wang and Mingxiang Huang</i>	
P2P-Based VoIP QoS Management in Heterogeneous Networks	5028
<i>Xiuhua Fu and Jiazheng Wang</i>	
Suggestions for China's Logistics Parks Based on Japan's Experience	5031
<i>Fuhua Wang</i>	
The Air Cargo Strategy Based on Apriori and ID3 Algorithm.....	5035
<i>Hongyan Li, Zhong Wu and Cheng Li</i>	
Improving Artificial Neural Networks Based on Hybrid Genetic Algorithms.....	5039
<i>Huawang Shi and Shihu Zhang</i>	
Valuation of Liquidity Discount: An Option-Theoretical Approach	5043
<i>Zhaohui Liang and Fasheng Li</i>	

Power Load Forecasting Based on Neural Network and Time Series	5047
<i>Shu-liang Liu, Zhi-qiang Hu and Xiu-kai Chi</i>	
Analyze the Mobile Phone TV Standard in China by Game Theory	5052
<i>Jian Chi and Xiong-jian Liang</i>	
Research on Wireless Process Data Acquisition Technology Based on Agent in Remote Manufacturing	5055
<i>Musheng Yang, Yu Zhang and Aijun Li</i>	
Study on Building Data Mining Application	5059
<i>Zhijun Ren</i>	
A Study of Precise Vehicle Speed Measurement Using Bluetooth and SCM Technology.....	5063
<i>Feiyu Lian and Jijiang Yu</i>	
The Design of Communication Block for Marine Simulator	5068
<i>Feng Yu and Yong Yin</i>	
A QoE Based Evaluation of Service Quality on Wap in Wireless Network.....	5071
<i>Yu Du, Wenan Zhou, Baofu Chen and Junde Song</i>	
Industrial Determinants of Business Group: Evidence from China	5075
<i>Tianshu Zhang and Jun Huang</i>	
Design and Implementation of GPS/DR/GPRS Integrated Position and Monitoring System for Vehicle.....	5079
<i>Yongqiang Zhang, Liangliang Li and Yongjian Zhang</i>	
The Timing of Introducing Mobile Number Portability	5083
<i>Hui Zhou</i>	
The Empirical Study of IS Development Teams' Performance in China	5087
<i>Yaobin Lu and Chunjie Xiang</i>	
Study on Third Party Logistics Design Model of SCR.....	5091
<i>Jianheng Zhou</i>	
The Generalized Expectation Value Model of Stochastic Programming Problem	5095
<i>Fachao Li and Yi Liu</i>	
Language Models for Web Object Retrieval.....	5099
<i>Jianfeng Zheng and Zaiqing Nie</i>	
School Energy and Security Improvement System Based on Lonworks Technology	5105
<i>A'ni Dong, Qinhua Hu and Kuishan Li</i>	
Asset Price and Inflation Rate in China: Empirical Research Based on VAR Model.....	5108
<i>Qinghui Gao</i>	
Sharing Information with Controllable Precision by Distance Measuring in Mobile Social Network.....	5112
<i>Ya-Li Cai, Wen-dong Wang, Xiang-yang Gong, Can-feng Chen and Jian Ma</i>	
A Novel Web Text Mining Method Based on Semantic Polarity Analysis	5116
<i>Li Yu and Qiang Li</i>	
Multi-Agent Cooperation Based on Opponent's Behavior Forecast	5120
<i>Chaoyang Ji and Hongyun Wan</i>	
Workflow-Based Embedded System Procedure Management.....	5124
<i>Chong Tan and Xingchuan Yuan</i>	

SESSION 17 – LOCATION BASED SERVICES

The Assisted GNSS Boomed Up Location Based Services	5128
<i>Zhongliang Deng, Dejun Zou, Jianming Huang, Xu Chen and Yan pei Yu</i>	
An Intelligent Memory Card For LBS.....	5132
<i>Xin Ma, Xin Zhang, Chunxiao Jiang, Nengqiang He, Yong Ren, Canfeng Chen, Zhicheng Deng and Jian Ma</i>	
Resource-Effective and Accurate WLAN Infrastructure Design and Localization Using a Cell-Structure Framework	5136
<i>Eddie C. L. Chan, George Baciu and S. C. Mak</i>	
A Novel Algorithm of NLOS Error Mitigation Based on Kalman Filter in Cellular Wireless Location	5142
<i>Meiyang Zhang, Jianhui Wang and Zhongmei Ji</i>	
ANFIS-Based Wireless LAN Indoor Positioning Algorithm	5146
<i>Weixiao Meng, Jiwei Wang, Lang Peng and Yubin Xu</i>	
Constrained Least Squares Algorithm for TOA-Based Mobile Location under NLOS Environments	5150
<i>Wei Ke and Lenan Wu</i>	
An Algorithm for Circle Curve Fitting Based on the Constrained Least Square Model Represented by Mosaic Observation Points	5154
<i>Juan-li Hu, Jia-bin Deng and Chang Hu</i>	
An AGPS Positioning Algorithm Based on the Secure User Plane Location Protocol	5158
<i>Xiaoye Li, Chunxiu Xu, Jizhong Li, Yan Zhen and Muqing Wu</i>	
Observer Route Planning Algorithm in Pseudo-Target Dynamic Feasible Region Constraint Method.....	5162
<i>Ruyun Zhang, Dandan Fan and Ming Chen</i>	
Research on Mobile Location Service Design Based on Android	5166
<i>Xianhua Shu, Zhenjun Du and Rong Chen</i>	
Tri-Station Location System in 2D Surface Based on Time Difference Self Measurement of Main Station	5170
<i>Yu Tao</i>	
A Visual Location-Based System For Wireless LAN Management.....	5174
<i>Wei Li, Lanjun Li, Yunchun Li, Suxiang Li and Xinwei Chen</i>	

The Improvement of Positioning Accuracy with Weighted Least Square Based on SNR	5178
<i>Jizhong Li and Muqing Wu</i>	
Analysis of Indoor Positioning Approaches Based on Active RFID	5182
<i>Feng-juan Zhu, Zong-heng Wei, Bin-jie Hu, Jian-guang Chen and Zi-min Guo</i>	
Study on Applications of LBS Based on Electronic Compass	5186
<i>Faying Liu and Zhenyu Yang</i>	
Cost Function of Features Based Mode Switching Algorithm for Indoor Positioning	5190
<i>Zhongliang Deng, Yujia Zhu and Hui Wang</i>	
Research on Satellite Interference Geolocation Based on Satellite Systems	5194
<i>Jianning Han, Ying Liu and Daochao Huang</i>	
The Design of Mobile Target Monitoring System Based on VHF/TDMA Technology	5199
<i>Wu Hua, Yingbing Zhou, Sun Chen and Jianping Xing</i>	
Design and Implementation of Mobile GeoSpatial Information System for Public Health Emergency	5203
<i>Weixing Wang, Jianhua Gong, Lihui Zhang, Jinjin Zhang, Liqun Wang and Wuchun Cao</i>	
Mobile Location Estimator in Mixed LOS/NLOS Conditions Using UKF Banks	5207
<i>Ding Tao, Liang Chen and Lenan Wu</i>	
Research of Indoor Local Positioning Based on Bluetooth Technology	5211
<i>Dong Li and Jiancheng Wang</i>	
Location-Based Services to Control Roller Compaction Quality for Rock-Fill Dams	5215
<i>Hao Wu, Qiankun Wang, Jiru Zhang, Qin Chen and Xupeng Wang</i>	
A New Scheme of LBS Privacy Protection	5219
<i>Ming Tang, Qianhong Wu, Guoping Zhang, Lili He and Huan-guo Zhang</i>	
Mobile Positioning System Based on the Wireless Sensor Network in Buildings	5225
<i>Xiujun Li, Gang Sun and Xu Wang</i>	
The Strategy Design of Compression and Transmission on cGML Spatial Data and Its Application in LBS	5229
<i>Aiguo Zhang, Qunyong Wu and Qifeng Xu</i>	
LBS-Services of Information Integrated and Decision Supported in Logistics Industry	5233
<i>Wenfeng Zheng, Xiaolu Li, Zhengtong Yin and Lei He</i>	
Implementation of Large Number of Buildings Based on OpenGL	5237
<i>Jie Liu, Yuhao Wang, Honggang Qi, Yi-na Liu and Jun-cai Tao</i>	

SESSION 18 – AUTHENTICATION, AUTHORIZATION AND BILLING

HIP Based Real-Name Access Mechanism in Next Generation Internet	5240
<i>Yinghui Qiu and Boning Hu</i>	
Security Analysis on “A Chaotic Fragile Watermarking Technique with Precise Localization”	5244
<i>Miao Yu, Wuyi Zhang and Dongyun Wang</i>	
A Fragile Watermarking Scheme Based on SVD for Web Pages	5248
<i>Xianzhong Long, Hong Peng and Changle Zhang</i>	
Identity-Based Uploading Content Scheme in DRM	5252
<i>Peipei Guan, Yixian Yang, Xinxin Niu and Zhaofeng Ma</i>	
A Remote User Authentication Scheme Preserving User Anonymity and Traceability	5255
<i>Shuai Shao, Hui Li, Xinxin Niu and Yixian Yang</i>	
A Face Detector Based on Hausdorff Distance	5259
<i>Guang Chen, Wen-wei Wang and Qiu-ping Zhu</i>	
Design and Implementation of Load Test for 3G Online Charging System	5263
<i>Hongman Wang, Zhihui Shi, Fangchun Yang, Yuzhang Liu and Tao Zhang</i>	
A New Model for Continuous Network Access Control of Trusted Network Connection	5268
<i>Jiahui Wang and Zhenqiang Wu</i>	
A New Authentication Model Based on CL-PKC in Resource Limited P2P Systems	5273
<i>Jian Liu and Zhongwen Li</i>	
An Improved Dynamic Identity Authentication Scheme Based on PKI-SIM Card	5277
<i>Xue Yin, Junwei Zou, ChunXiao Fan and Peng Zhou</i>	

SESSION 19 – DATA MANAGEMENT

A Model for Parallel Data Mining Based on Multi-Agent	5281
<i>Xianglei Meng and Deyu Dang</i>	
Study on the Differences of the Dynamic Target Information of the Marine Radar and AIS	5285
<i>Changchuan Lin, Fang Dong, Yangping Ou, Lina Li, Jianwen Zhou and Guoquan Chen</i>	
Load Forecasting Model Based on Amendment of Mamdani Fuzzy System	5289
<i>Kuihe Yang and Lingling Zhao</i>	
Interface Model Mapping Adapter in Network Management: From CORBA to Ontology	5293
<i>Zhuli Meng, ZhiPeng Gao, Zhili Wang and Xuesong Qiu</i>	
Effective Data Replication in Heterogeneous Structured P2P Networks	5297
<i>Yan Wang, Xiaofeng Qiu, Chunhong Zhang, Wei Mi, Lichun Li and Yang Ji</i>	
Extraction of User Profile Based on the Hadoop Framework	5301
<i>Lan Huang, Xiao-wei Wang, Yan-dong Zhai and Bin Yang</i>	

An Agent Negotiation System Based on Adaptive Genetic Algorithm	5307
<i>Dong-mei Deng and Jian Li</i>	
A Signal Filter Based Clustering Algorithm.....	5311
<i>Qiang Zhang, Ying Yang, Teng-fei Wu and Cheng Li</i>	
Organization Reliability Modeling of Ship Oil Spill Emergency Management Based on Bayesian Network	5315
<i>Likun Wang and Xin Zhou</i>	
Hierarchical Clustering Ensemble Algorithm Based Association Rules	5320
<i>Taoying Li and Yan Chen</i>	
Revised PSK Clustering Algorithm	5324
<i>Wei Li</i>	
Data Storage Management in Semantic Web Service	5327
<i>Tinglei Huang, Bo Zhou and Jie Liu</i>	
A Data Architecture Model Based on IDEF0 for Business-to-Business Electronic Commerce	5331
<i>Hongbiao Li and Lixin Yin</i>	
Research of Threat Identification Based on Bayesian Networks	5336
<i>Man Li, Xinxi Feng and Jiaoping Chen</i>	
Making Customer Intention Tactics with Network Value and Churn Rate.....	5339
<i>Rong Liu, Yuanquan Li and Jiayin Qi</i>	
Study on System of Fiber Optic Strain Signal Sampling and Processing Based on LabVIEW.....	5343
<i>Li-ying Lang and Lan Shen</i>	
Temporal-Spectral Data Mining in Anomaly Detection for Spectrum Monitoring	5347
<i>Sixing Yin, Shufang Li and Jixin Yin</i>	
A Kind of Spatial Data Storage System Based on Global Subdivision Theory for Mobile GIS	5352
<i>Xuefeng Lv, Chengqi Cheng, Guoliang Pu and Li Guan</i>	
The Multi-Tenant Data Architecture Design for the Collaboration Service System of Textile & Apparel Supply Chain	5356
<i>Xiao Feng Wang and Ping Jun Dong</i>	
A Novel Chinese Mandarin Speech Indexing Method Based on Confusion Network Using Tone Information	5360
<i>Xiangsong Huang, Chunhui Zhao, Dapeng Pan and Baisen Liu</i>	
Dynamic Load Balancing with Multiple Hash Functions in Structured P2P Systems	5364
<i>Yuqi Mu, Cuibo Yu, Tao Ma, Chunhong Zhang, Wei Zheng and Xiaohua Zhang</i>	
A Dynamic Load Balancing Method for Spatial Data Network Service	5368
<i>Li Zhu, Weiming Shen, Shaoming Pan, Rui Li and Zhongmin Li</i>	
Research on the Method of Nonlinear Dimensionality Reduction for the Text of Laws and Regulations of Construction	5371
<i>Bian-ping Su, Yi-ping Wang and Hui Zhi</i>	
Using SVG Technique to Organize and Display Data of Embedded GIS	5375
<i>JuanZhu Liang</i>	
Three Mathematical Approaches for Trust Trend Evaluation	5378
<i>Zhenpeng Liu, Junbao Li, Jianmin Xu, Jimin Li and Aiguo An</i>	
A Prediction QOS Approach Reputation-Based in Web Services	5382
<i>Zhenpeng Liu, Aiguo An, Shuhua Liu and Junbao Li</i>	
An Approach of Agent-Based Architecture for Autonomic Network Management.....	5386
<i>Hong Chen, Wenan Zhou and Lu Liu</i>	
Calculation and Analysis of Typical Coastal Low-Tide Marks Based on Lidar Data.....	5391
<i>Ruifu Wang and Yuling Hu</i>	
The Raster Data Management in a Spatial Data Grid	5395
<i>Pengfei Wu, Yu Fang, Bin Chen, Yong Zhao and Menglong Yan</i>	
Information Modeling and Autonomic Configuration Management of Femto Network.....	5399
<i>Lan-lan Rui, Luo-ming Meng and Xue-song Qiu</i>	
The Research in Improving the Quality of DW Data: The Job-Scheduling and Checking Based Program in Upgrading DW Performance	5404
<i>Jie Zhang, Qiaoyan Wen and Hua Zhang</i>	
Design of Medium Voltage Power Line Spread Spectrum Carrier Communication System Based on Embedded System	5408
<i>Hui Xiao and Xuebin Wu</i>	
Research on the Acquirement of Enterprise Risk Competitive Intelligence Based on Data Mining.....	5412
<i>Xianjin Zha and Feng Yang</i>	
A Rough Set Based Decision Analysis of Students' Score Database.....	5416
<i>Runcai Huang, Yiwen Zhuang and Qiying Cao</i>	
Situation Assessment in a Stochastic Environment Using a FUZZY-Bayesian Technique	5420
<i>Man Li, Xinxi Feng and Jiaoping Chen</i>	
Lightweight-ALE-Based Embedded RFID Middleware.....	5424
<i>Fagui Liu, Yuedong Lin, Yongxiong Ruan and Haipeng Yu</i>	
A Study on E-Government System Security Based on Fuzzy Analytic Hierarchy Process	5428
<i>Zhong Wu, Hongyan Li and Cheng Li</i>	
Estimation and Analysis of the Cost for Healthy China by 2020	5434
<i>Hong Wang, Zhong Wu and Hongyan Li</i>	
A Method of Deciding the Security in Publishing Views	5438
<i>Kun Zhang and Wan-zhen Zhou</i>	

Design and Implementation of WAP-Based Teaching Information Service System	5442
<i>He Li and Meng Dan</i>	
A Tobit Model on Message Transfer and Control in Instant Message Systems.....	5446
<i>Yuanping Zhao, Qiang Yan and Huaying Shu</i>	
Study on Wave Impact Force Prediction of Different Shore Connecting Structure Based on Improved BP Neural Network	5449
<i>Xiaoguo Zhou and Shuguang Luan</i>	
Data Fitting of Weak Signal Based on the Least Square Method.....	5453
<i>Lin Yao and Daowen Liu</i>	

SESSION 20 – MOBILE COMPUTING SYSTEMS

A Markov Chain Monte Carlo Approach to Perform Global Optimized Resource Replication over Ad Hoc Networks.....	5457
<i>Yao Yu, Yu Zhou and Sidan Du</i>	
An Intelligent Context-Aware Spatial Routing System in Mobile Environment	5461
<i>Dejian Meng, Stefan Poslad and Yapeng Wang</i>	
Research on the Evaluation of Information Superiority in Near Space Information System	5465
<i>Canbin Zhu, Jian Cheng, Xiaonan Li and Yu Lei</i>	
Research for a Dynamic Key Establishing Algorithm Suitable for Mobile Computer	5469
<i>Limin Zhang and Zhanglin Li</i>	
Wireless Communication Application in Mobile Robot with Machine Vision.....	5473
<i>Zhiguo Chen and Wenbo Xu</i>	
Potential of IR-UWB Technology for Ubiquitous Computing	5477
<i>Xiaohui Chen, Sheng Xu, Huarui Yin and Weidong Wang</i>	
An Optimized Solution for Mobile Environment Using Mobile Cloud Computing	5483
<i>Qingfeng Liu, Xie Jian, Jicheng Hu, Hongchen Zhao and Shanshan Zhang</i>	
A New Prediction Function for File Replication in Mobile Grids.....	5488
<i>Xiaodong Yan, Xiaobing Zhao and Guosheng Yang</i>	
Design and Implementation of DTN Network Testbed Based on Linux	5492
<i>Zhenjing Zhang, Zhigang Jin, Chuandong Zhao, Yantai Shu and Sainan Zhang</i>	
The Monitoring of Host Computer for Forest Fire Detection System Based on Wireless Sensor Network	5496
<i>Wenbin Li, Junguo Zhang, Junmei Zhang, Zhifeng Xia and Guozhu Wang</i>	
Double Agent Architecture: A Framework for Personal Mobility	5500
<i>Hongbo Si, Yue Wang, Jian Yuan and Xiuming Shan</i>	
A Water-Saving Irrigation System Based on Fuzzy Control Technology and Wireless Sensor Network.....	5504
<i>Xiaohong Peng, Zhi Mo, Laisheng Xiao and Guodong Liu</i>	
The Capacity of Hierarchical Wireless Networks.....	5508
<i>Genjian Yu and Wenzhong Lin</i>	
Study on the Functions and Characteristics of Interfaces in CBTC.....	5512
<i>Xiaoqing Zeng, Chenliang Tao and Tao Bai</i>	
Research on Mobile MOM Supporting Data Sharing.....	5516
<i>Hongjun Yu, Rong Chen and Zhenjun Du</i>	
The Research of Resource Auction Incentive Mechanism in Mobile P2P	5520
<i>Hui Ding and Jinming Pei</i>	
A Service Composition Method for Mobile Environment	5523
<i>Rui Ou, Wen-dong Wang, Xiang-yang Gong, Can-feng Chen and Jian Ma</i>	
MLGL: A Spatial Data Model for Mobile Geoinformatics and Cartography	5528
<i>Ling Pei, Juan Gu and Qing Wang</i>	
The Workflow Automaton in Ad Hoc Network	5532
<i>Yanwei Song, Guangzhou Zeng and Fei Liu</i>	
A Collaborative Learning Service for SNS in Ubiquitous Computing Environment.....	5536
<i>Chengjiu Yin, Yoshiyuki Tabata and Hiroaki Ogata</i>	
A Cross-Layer Method to Improve Mobile Database Synchronization Performance	5540
<i>Yazhou Jiao, Zhigang Jin and Zhuoqun Ma</i>	
Research of the Real-Time Performance of Operating System.....	5544
<i>Jun Shen, Qiang Wu, Xuwen Li and Yanhua Zhang</i>	
Independent Tasks Scheduling Based on Genetic Algorithm in Cloud Computing	5548
<i>Chenhong Zhao, Shanshan Zhang, Qingfeng Liu, Jian Xie and Jicheng Hu</i>	
Mathematic Modeling and Algorithms Designing for a Novel Traffic Monitor Approach Based on Wireless Sensor Networks	5552
<i>Cunchen Tang, Feng Liu, Zehua Wang and Wenqing Zhang</i>	
Author Index	