

2011 International Conference on Network Computing and Information Security

(NCIS 2011)

**Guilin, China
14 – 15 May 2011**

**Volume 1
Pages 1-452**



**IEEE Catalog Number: CFP1146N-PRT
ISBN: 978-1-61284-347-6**

2011 International Conference on Network Computing and Information Security

NCIS 2011

Table of Contents Volume - 1

Preface - Volume 1	xii
Organizing Committee - Volume 1	xiii
Program Committee - Volume 1	xiv
Reviewers - Volume 1	xvi

Access Control

A Dynamic Access Control Scheme for Outsourced Database	3
<i>Xiaoming Wang and Yanhui Zhang</i>	
A Mandatory Access Control Model Based on Concept Lattice	8
<i>Zhang Lei, Zhang Hongli, Yin Lihua, and Shen Xiajiong</i>	
A User Access Policy Based on Dynamic Sensitivity Label	13
<i>Li Bo, Jiang Chunxia, and Lin Yilin</i>	
An Extensible Framework for RBAC in Dynamic Ad-Hoc Coalitions	17
<i>Bo Chen and Lingna He</i>	

Applications of Cryptography

A New Directed-Threshold Multi-signature Scheme without Trusted Share Distribution Center	25
<i>Zhonghua Shen</i>	
An Active-Passive Security Protection Method for Remote Sensing Image	30
<i>Xu Yanyan, Zhang Yuxia, and Xu Zhengquan</i>	
An Efficient Certificateless Signature Scheme from Bilinear Parings	35
<i>Fengyin Li and Peiyu Liu</i>	

Analysis of Digital Content Nested Protection in the Research of Digital Content Lifecycle Protection	38
<i>Mei Xue and Deren Yang</i>	
Disk Encryption Based on Sequential Change Detection under Multi-user Environment	43
<i>Fuxiang Zhao and Liaojun Pang</i>	
Distinguishing Attack on MAC with Enveloped Method Using MD5	48
<i>Shiwei Chen and Chenhui Jin</i>	
Group Key Management Scheme Based on Proxy Re-cryptography for Near-Space Network	52
<i>Zhen Wang, Xuehui Du, and Yi Sun</i>	
Reliability Mechanism for the Core Control Network-Element S-CSCF in IMS	57
<i>Yong Liu, YiHong Liu, and Xingwei Wang</i>	
VMInsight: Hardware Virtualization-Based Process Security Monitoring System	62
<i>Xianxian Li, Changhui Jiang, Jianxin Li, and Bo Li</i>	

Cloud Computing

A Pricing Algorithm for Cloud Computing Resources	69
<i>Hao Li, Jianhui Liu, and Guo Tang</i>	
Effect of Multiple Flow on Performance of Real-Time Data Grids	74
<i>Mustafa Mijdat Atanak and Atakan Doğan</i>	
Medical Information Integration Based Cloud Computing	79
<i>QingZang Huang, Lei Ye, MingYuan Yu, FuLi Wu, and RongHua Liang</i>	
Petroleum Exploration Domain Ontology-Based Knowledge Integration and Sharing System Construction	84
<i>Jike Ge, Zushu Li, Taifu Li, and Baohua Qiang</i>	
Replicate Distribution Method of Minimum Cost in Cloud Storage for Internet of Things	89
<i>Dian He, Ying Liang, and Zhi Hang</i>	
Research on Privacy-Preserving Cloud Storage Framework Supporting Ciphertext Retrieval	93
<i>RuWei Huang, XiaoLin Gui, Si Yu, and Wei Zhuang</i>	
The Content Delivery Network System Based on Cloud Storage	98
<i>Yuedui Wang, Xiangming Wen, Yong Sun, Zhenmin Zhao, and Tianpu Yang</i>	
The Satellite Optimization Design Using Normal Cloud Model Method	103
<i>Chang-chun Chen, Zhao-wei Sun, and Dong Ye</i>	
Value of Cloud Computing by the View of Information Resources	108
<i>Chunlan Li and Zhonghua Deng</i>	

Virtual Machines Scheduling Algorithm Oriented Load Forecast	113
<i>XiaoJun Chen and Jing Zhang</i>	

Communication and Information Systems

A Novel Downlink Coordination Scheme for CoMP SU-MIMO	121
<i>Zhao Tong, Bingbing Li, and Mingqian Liu</i>	
A Novel Precoding Method for Joint Processing in CoMP	126
<i>Binbin Wang, Bingbing Li, and Mingqian Liu</i>	
A Pulse Design Method for the Compatibility of UWB and IEEE 802.11a WLAN Systems	130
<i>Xiaolin Shi</i>	
Application Study of Optical Fiber F-P Sensing System for Non-contact Measurement of Surface Defects	134
<i>Yikai Shi, Liang Deng, Ning Shan, and Ning Yang</i>	
Coordinated Beamforming of CoMP with Limited Feedback	138
<i>Zijia Huang, Bingbing Li, and Mingqian Liu</i>	
Model and Simulation of Narrowband Ground-to-Air Fading Channel Based on Markov Process	142
<i>Jianbo Yang, Peng Liu, and Hu Mao</i>	
Research on Geo-event Ontology Construction Oriented Task	147
<i>Bin Li, Lihong Shi, Jiping Liu, and Tao Kunwang</i>	
Separating Interleaved User Sessions from Web Log	152
<i>Huang Hao, Jiang Dan, and Huang Jianqing</i>	
The Synchronization Control for a Kind of Complex Dynamical Networks	157
<i>Wei Wang</i>	
XBRL Metadata Repository and Continuous Data Mining	162
<i>Ding Pan and Yunshan Pan</i>	

Computer Networks

A Multicast Routing Algorithm Applied to HIP-Multicast Model	169
<i>Xueyong Zhu, Zhiguo Ding, and Xinling Wang</i>	
Auxiliary Algorithms in Green Multi-agent Planning Framework	175
<i>Dongning Rao and Zhihua Jiang</i>	
Cost-Effective IP Trace Publishing Using Data Sketch	180
<i>Li-hua Miao, Wei Ding, Hai-ting Zhu, and Qing Xia</i>	
Formal Description of Network Protocols Using RAISE Specification Language	185
<i>Gu Xiang and Qiu Jianlin</i>	

Modeling Algorithm for the Topology of Weighted Directed Network Based on the Triad Formation Rule	189
<i>Feipeng Li, Yanheng Liu, and Xin Sun</i>	
Research on Network Attack Packet Sampling Based on Stackelberg Game Theory	194
<i>Lei Zhou and Hang Chen</i>	
Tor Network Limits	200
<i>Souad Benmeziane, Nadjib Badache, and Sihem Bensimessaoud</i>	

Cryptographic Protocols and Functions

A Pairing-Free Identity-Based Authenticated Key Agreement Mechanism for SIP	209
<i>Liang Ni, Gongliang Chen, and Jianhua Li</i>	
An Optimistic Payment Protocol with Mobile Agents in Hostile Environments	218
<i>Yi Liu and Yong Ding</i>	
Certificateless Authenticated Key Agreement Protocol against KCI and KRA	223
<i>Li Hongtu, Hu Liang, Yuan Wei, and Chu Jianfeng</i>	
Efficient 1-Out-2 Oblivious Transfer Schemes Based on EDDH Assumption	227
<i>Huawei Huang and Chunhua Li</i>	
Improved Proxy Signature for Designated Verifier	231
<i>Zhang Xinqing, Huang Shoujia, and Xin Xiangjun</i>	
Improvement of an Efficient Identity-Based Group Key Agreement Protocol	234
<i>Wei Yuan, Liang Hu, Kuo Zhao, Hong-tu Li, Jiang-feng Chu, and Yuyu Sun</i>	
Password-Based Group Authenticated Key Exchange Protocol: From 3-Party to Group	239
<i>Minghui Wang, Junhua Pan, and Jiandong Wang</i>	
Qubit Extraction for Free-Space Quantum Key Distribution	242
<i>Bo Zhong, Weiyue Liu, Chong Li, Zhidi Jiang, Yanlin Tang, Yang Liu, Bin Yang, Xiaofang Hu, Qi Shen, and Chenzhi Peng</i>	
Secure ID-Based Blind Signature Scheme without Random Oracle	245
<i>Xiaoming Hu, Jian Wang, and Yinchun Yang</i>	

Foundations of Computer Security

A Formal Framework for Security Policy Specification and Implementation	253
<i>Wang Yigong, Zhang Hongqi, Dai Xiangdong, and Liu Jiang</i>	
A Method of License Plate Location Based on Mathematical Morphology and Corner Detection	257
<i>Shu-jian Ma and Jian-yu Zhao</i>	
A New Method on Personalized Privacy Preserving Multi-classification	261
<i>Yan Fu, Chongjing Sun, Junlin Zhou, and Yuke Fang</i>	

A Software Protection Framework Based on Thin Virtual Machine Using Distorted Encryption	266
<i>Dingyi Fang, Li Gao, Zhenyong Tang, and Xiaojiang Chen</i>	
An Upper Bound for the Discrepancy of Quadratic Congruential Random Numbers	272
<i>Guangqiang Zhang</i>	
Anti-rootkit Technology of Kernel Integrity Detection and Restoration	276
<i>Yongqiang Zhang and Hai Bi</i>	
E-Government Implementation Performance and Information Sharing: An Analysis among Multi-level Departments	279
<i>Xin Lu, Fan Liu, and Ruimin Pei</i>	
Ensure Data Security in Cloud Storage	284
<i>Xiao Zhang, Hong-tao Du, Jian-quan Chen, Yi Lin, and Lei-jie Zeng</i>	
Exchange Rate Forecasting Method Based on Particle Swarm Optimization and Probabilistic Neural Network Model	288
<i>Bingxiang Liu, Hua Wang, and Xiang Cheng</i>	
Fault Tree Analysis Based on Logic Grey Gate in Power System	293
<i>Yuan-liang Huang, Hua-ping Shao, and Qing-quan Qian</i>	
Improving Autocorrelation and RFM Autocorrelation Performance of Skew Tent Sequence	298
<i>Bin Chen</i>	
Linear Cryptanalysis for the Compression Function of Hamsi-256	302
<i>Yunqiang Li and Wang Ailan</i>	
Research of P2P Traffic Comprehensive Identification Method	307
<i>Liu Zhenxiang, He Mingbo, Liu Song, and Wang Xin</i>	
Research on Management Scheme of Trusted Application Software	311
<i>Huang Hong, Wang Chang-hui, and Wang Ben</i>	
Self-Certified Proxy Blind Signcryption Scheme from Pairings	316
<i>Yu Hui-fang, Tian Li-qin, and Wang Zhi-cang</i>	
The Security Routing Based on Convergence Detected about Route in DHT	321
<i>Feng Wang, Ya Li, and Xiao Jian Li</i>	

Grid Computing

A Distributed Dynamic Power Control Algorithm for Efficient Processing Self-Interference in WLAN/WPANS	329
<i>Dong Yueli and Sun Bin</i>	
A New Method of File Transfer in Computational Grid Using P2P Technique	332
<i>Gao Ying, Liu GuanYao, and Huang JianCong</i>	
Adaptive Site Selection and Task Scheduling for Grid Workflow	337
<i>Li Xi, Hu Zhigang, and Yan Chaokun</i>	

An Improved Shuffled Frog Leaping Algorithm for Grid Task Scheduling	342
<i>Wu Yang and Yuanshu Sun</i>	
One Kind of Improved Load Balancing Algorithm in Grid Computing	347
<i>Hai-yun Peng and Qian Li</i>	
SUCSI: A Light-Weight Desktop Grid System Using Virtualization for Application Sandboxing	352
<i>Dongping Wang and Bin Gong</i>	

Identity and Trust Management

A Plan Recognition Algorithm Based on the Probabilistic Goal Graph	359
<i>Liu Ying and Gu Wen-xiang</i>	
A Subjective Trust Management Model Based on AHP for MANETs	363
<i>Hui Xia, Zhiping Jia, Xin Li, and Feng Zhang</i>	
A Subjective Trust Model Based on Fuzzy Neartude	369
<i>Shuangyong Zuo, Guangxi Chen, Yong Ding, and Xiangling Wang</i>	
Study on Several Fast Algorithm of Modular Exponentiation in RSA	374
<i>Tong Zhou</i>	

Image and Video Processing

A Iris Recognition Based on Geometric Information	381
<i>Lunman Deng and Jeong-Young Song</i>	
An Automatic Pedestrian Detection and Tracking Method: Based on MACH and Particle Filter	385
<i>Qiulei Han and Zhijun Yao</i>	
Evaluation on the Speed Stability of Electric Wheelchairs Based on Speedadaptation	390
<i>Liu Wenliang and Li Yujiao</i>	
Image Restoration Using Improved Particle Swarm Optimization	394
<i>Na Li and Yuanxiang Li</i>	
Image Retrieval Based on Multi-features	398
<i>Kong Fanhui</i>	
TD-RECS Chaotic System Based Digital Image Encryption Algorithm Protecting from Shearing Attack	402
<i>Qi-nan Liao</i>	
Wiener Filtering Using Neighboring Coefficients	406
<i>Yang Ying and Wei Yusen</i>	

Information Hiding and Watermarking

A Color Image Blind Watermarking Algorithm Based on Chaotic Scrambling and Integer Wavelet	413
<i>Wang Yongqi and Zhang Hui</i>	
A Fragile Watermarking Scheme Based on Hash Function for Web Pages	417
<i>Zulin Zhang, Hong Peng, and Xianzhong Long</i>	
Design and Anti-collusion Performance Analysis of a Quantization Based Orthogonal Fingerprinting Scheme	421
<i>Xuping Zheng, Aixin Zhang, Shenghong Li, and Jianhua Li</i>	
Time-Spread Echo Hiding Steganalysis Algorithm Based on Ensemble Learning	426
<i>Yin-Cheng Qi, Jing-Na Zhang, and Wei-Liang Wang</i>	

Network Communication

A Invariant Subspace Theorem on Sequentially Subdecomposable Operators	433
<i>Pengyu Zhao</i>	
A Revised Mapping System Design for Host Identity Procotol	436
<i>Zhangfeng Hu, Bo Hu, Shanzhi Chen, and Jianwei He</i>	
Cellular Communication Network Modeling Method Based on Cytokines	441
<i>Yan-jun Hua and Gang-chang Pang</i>	
Research on Application of DWDM on Educational MAN	446
<i>Jinshan Zhu, Jiangkang Guo, and Yan Zhang</i>	
Author Index - Volume 1	449

2011 International Conference on Network Computing and Information Security

(NCIS 2011)

**Guilin, China
14 – 15 May 2011**

**Volume 2
Pages 1-464**



**IEEE Catalog Number: CFP1146N-PRT
ISBN: 978-1-61284-347-6**

2011 International Conference on Network Computing and Information Security

NCIS 2011

Table of Contents Volume - 2

Preface - Volume 2	xii
Organizing Committee - Volume 2	xiii
Program Committee - Volume 2	xiv
Reviewers - Volume 2	xvi

Intelligent Networked Systems

Research of the Automatic Shrinking-Film Labeling Machine Based on the Data Bus	3
<i>Cheng He</i>	
"Light Saber" - A Wireless Interactive System Based on Infrared Motion Capture	7
<i>Ren Chen, Chen Ma, Xing-jie Wang, and Zheng Yu</i>	
A Divide-and-Conquer System Based Neural Networks for Forecasting Time Series	12
<i>Suixun Guo and Rongbo Huang</i>	
A New Approach to Estimate RED Parameters Using Global Congestion Notification	15
<i>Özen Yelbaşı and Emin Germen</i>	
A Novel Hybrid Method Based on Genetic Algorithms and Neural Networks	20
<i>Zhibin Zhu, Anwa Zhou, De He, and Shuo Wang</i>	
A Survey of Agent Based Automated Negotiation	24
<i>Liu Kexing</i>	
Advances in Research of Fuzzy C-Means Clustering Algorithm	28
<i>Chen Yanyun, Qiu Jianlin, Gu Xiang, Chen Jianping, Ji Dan, and Chen Li</i>	
An Effective Multicast Mechanism in On-chip Networks	32
<i>Jing Lin and Xiaola Lin</i>	
Coherence Resonance of Excitable Chaotic Spiking Hindmarsh-Rose Neuron Model	36
<i>Guang-Jun Zhang, Jue Wang, Hong Yao, Xiang-bo Wang, and Jian-Xue Xu</i>	

Configuration Design and Sizing Optimization of a Winged Airship	41
<i>Wang Haifeng, Song Bifeng, and Zhong Xiaoping</i>	
Consider Risk' Assignment of Collaborative Logistics' Interest Based on Shapely Value	46
<i>Zhi Guo-Jian, Zhang Rui-Xia, and Li Zhuang-Kuo</i>	
Control of Spiral Waves and Spatiotemporal Chaos by Stochastic and Asymmetrical Mutual Coupling	49
<i>Jun Mei Wang and Yu Xue</i>	
Data Mining in Library Reader Management	54
<i>Ping Yu</i>	
Design and Realization of Music Recognition Based on Speech Recognition	58
<i>Yubin Zhong and Yi Xiang</i>	
Influence of Encoder Eccentricity on Speed Measurement and Elimination Approach	63
<i>Rentao Zhao, Zhifang Zhang, and Jun Tie</i>	
Innovation Pattern Evaluation of Equipment Manufacturing Industry Based on Each Type Advantage Parameters	67
<i>Hou Xi-lin, Zhang Li-li, and Zhao Xi-nan</i>	
Modeling and Stability Analysis of Multi-rate MIMO Networked Control Systems with Output Feedback	72
<i>Liu Dianting and Li Haixia</i>	
On Parallel Multisplitting Relaxation Iterative Methods for Singular Linear Systems	77
<i>Qingbing Liu</i>	
Prediction of Fabric Subjective Thermal-Wet Comfort Properties by Inputting the Objective Parameters	81
<i>Ke Baozhu</i>	
Regularized Back-Propagation Neural Network for Rainfall-Runoff Modeling	85
<i>Xian Luo, You-peng Xu, and Jin-tao Xu</i>	
Scalable Transactional Memory Architecture Supporting Speculative Parallelization	89
<i>Yaobin Wang, Hong An, Rui Guo, Xiaoming Gao, and Fei Chen</i>	
Study on the Information Database and Retrieval System of Aircraft Development Based on CALS	94
<i>Dongmei Ni, Li Wang, and Guoping Xia</i>	
TextureGrow: Object Recognition and Segmentation with Limit Prior Knowledge	99
<i>Zhijun Yao and Qiuilie Han</i>	
The Edge-Fault-Tolerant Hamiltonian Connectivity of Enhanced Hypercube	103
<i>Min Liu and Hongmei Liu</i>	
The Expected Value Model of Multiobjective Programming Problems under Bifuzzy Environment	108
<i>Mingfa Zheng, Bingjie Li, and Guangxing Kou</i>	

Intrusion Detection, Tolerance and Prevention

An Adaptive Invasion Detection Based on the Variable Fuzzy Set	115
<i>Shuo Liangxun, Zhao Jinhui, and Wang Xuehui</i>	
An Intrusion Detection Method Based on Multiple Kernel Support Vector Machine	119
<i>Guanghui Song, Jiankang Guo, and Yan Nie</i>	
Ant Algorithm Inspired Immune Intrusion Detector Generation Algorithm	124
<i>Xiaowei Wang and Lina Sun</i>	
Detector Generation Algorithm Based on Online GA for Anomaly Detection	128
<i>Chen Jinyin and Yang Dongyong</i>	
Using Control-Flow Techniques in a Security Context: A Survey on Common Prototypes and Their Common Weakness	133
<i>Mark M. Seeger</i>	

Mobile, Ad Hoc and Sensor Network Security

An Analytical Model for Random Changing Pseudonyms Scheme in VANETs	141
<i>Yuanyuan Pan, Jianqing Li, Li Feng, and Ben Xu</i>	
An ECDLP-Based Randomized Key RFID Authentication Protocol	146
<i>Xinglei Zhang, Linsen Li, Yue Wu, and Quanhui Zhang</i>	
Mobile Trusted Scheme Based on Holistic Security Service System	150
<i>Li Tao and Hu Aiqun</i>	
Node Replication Attacks in Wireless Sensor Networks: Bypassing the Neighbor-Based Detection Scheme	156
<i>Wen Tao Zhu</i>	

Network Architecture and Protocol Design

A New Design of Embedded IPv4/IPv6 Dual-Stack Protocol	163
<i>Jian Chen, Zhiping Jia, and Xin Li</i>	
A Preliminary Study on Application-Level Protocol for G/S Mode Network Data Transfer	168
<i>Wen-hui Yang, Fu-chao Cheng, Fang Miao, and Li Tan</i>	
Improved Burst Target Demand Assignment Multiple Access (BTDAMA) for GEO Satellite Networks	173
<i>Xin Yuanbo, Zhou Xi, She Yang, and Jiang Yuan</i>	

P2P Computing

A Heterogeneity-Based Strategy for Resource Distribution in P2P Network	179
<i>Wang Qiong, Yang Jie, Zhou Hui, and Chen De</i>	
A Location-Aware Efficient Content-Based Searching over Unstructured P2P Network	183
<i>Quyan Huo, Jingyu Chen, Xuezhou Xu, Yachuan Zhou, and Xin Liu</i>	
A New Land Mark Node Technology Based Load Balancing Method for Constructing Future Carrier-Class P2P Network	188
<i>Heng Zhang and Sicong Kuang</i>	
An Age-Based Membership Protocol against Strong Churn in Unstructured P2P Networks	195
<i>Haowen Liu, Xiwen Liu, Wei Song, and Weidong Wen</i>	
DLPSPN: New Efficient Super-Peer Network Based on Double-Loop Petersen Graph	201
<i>Yi-Hong Tan, Xi-Dao Luan, Ya-Ping Lin, and Zhao Bi-hai</i>	

Parallel and Distributed Systems

Improved Master-Slave Parallel Task-Allocating Algorithm and Its Implement	209
<i>Chen Li, Qiu Jianlin, Chen Jianping, Gu Xiang, Ji Dan, and Chen Yanyun</i>	
Library Functions by Processes	213
<i>Kun Wu</i>	
Research and Implementation of Distributed Drill Simulation System Based on HLA	218
<i>Xiaofeng Guo, Jianjing Shen, and Peng Hu</i>	
Simulate Match and Mismatch by Computing in Pi-Calculus	222
<i>Jin Lu</i>	
Small Files Problem in Parallel File System	227
<i>Xiuqiao Li, Bin Dong, Limin Xiao, Li Ruan, and Yi Ding</i>	

Security Modeling and Architectures

A Network Boundary Gap Technique Scheme Based on Dual Unilateral Path	235
<i>Biao Wang, Sanping Tang, Shitao Zhang, and Wen Zhao</i>	
Cloud Evaluation Method of Network Attack Resistance Ability	239
<i>Huimei Wang, Ming Xian, and Guoyu Wang</i>	
Improvements on Trust Transitivity Model for Open Network	244
<i>Zhang Lin, Wang Ruchuan, and Wang Haiyan</i>	
Key Replicating Attack on an Identity-Based Three-Party Authenticated Key Agreement Protocol	249
<i>Wei Yuan, Liang Hu, Hong-tu Li, Kuo Zhao, Jiang-feng Chu, and Yuyu Sun</i>	

The Analysis and Countermeasures Research of Virtual Enterprise Asymmetric Knowledge Sharing	254
--	-----

Yu Cheng-xian, Chen Huo-quan, and Guo Dong-qiang

The Design of Information Security System for Digital Power Grid	260
--	-----

Jin Xu, Hongcheng Wang, Xia Shen, Wei Fang, and Erli Niu

Two-Level Trust Federation Model for Cross-Domain Environment	264
---	-----

Yanru Lu, Jianhua Gu, Qiurang Liu, Yunlan Wang, and Tianhai Zhao

Sensor Network

A Connectivity Based Localization Algorithm for Sensor Network	273
--	-----

Mantian Xiang, Yong Hu, and Lihong Li

An Improved Algorithm for Sensor Monitoring in WSANs	278
--	-----

Xin Zhang and Li Jiang

General Criteria-Based Clustering Method for Sensor Network	282
---	-----

Yu Niu, Brian J. d'Auriol, and Sungyoung Lee

Research on Centroid Localization Algorithm That Uses Modified Weight in WSN	287
--	-----

Hai-qing Cheng, Hua-kai Wang, and Hua Wang

Service Computing

A Semantic Web Services Query Optimization Method Based on Social Tagging	295
---	-----

Da Ning, Jian-Xiao Liu, and Cheng Sheng

Financial Information and Its Acquiring Methods in the Network Environment	300
--	-----

Haiwei Zhou and Linkai Qi

Locating Ontologies for Web Services Annotation	306
---	-----

Yanping Yang, Xiqing Ye, Yudong Li, and Min Jing

Research in Customer Satisfaction Based on Web Services Resources	311
---	-----

Chen Guo-bin

Research on Role Correlation in WSCDL	316
---	-----

Xu Donghong, Qi Yong, and Jiang Shujuan

Signal and Information Processing

A Current-Mode Nth-Order Multifunction Filter Using Minimum Number of DVCCs	323
---	-----

Ping-hua Zhang, Xi-feng Zhou, and Shan Xiao

A Fixed Point Algorithm for Noisy Time-Dependent Processes Using AR Source Model	327
--	-----

Yumin Yang

A New Additive Fuzzy System for Image Processing	332
--	-----

Lu Guiming and Zhang Yunzhe

A Novel Surface Interpolation Approach for Bidimensional Empirical Mode Decomposition	335
<i>Cuiyun Li, Pan Han, and Hongbing Ji</i>	
A Real-Data-Stimulated Simulation Assessment Method for P2P-Assisted Telecom IPTV Systems	339
<i>Xiuyan Jiang, Yinshu Pu, Yuan Liu, Dejian Ye, Guanzhong Lv, and Qing Xiao</i>	
A Study and Practice on the Wireless Networking Curriculum	343
<i>Xianliang Jiang, Guang Jin, Xiaodong Wang, Cuixia Ni, and Zhijun Xie</i>	
A Wavelet Chaotic Simulated Annealing Neural Network and Its Application to Optimization Problems	347
<i>Yunxiao Jiang, Yingke Lei, Zifa Zhong, and Xiang Zou</i>	
Application of Cell Mapping Method in Global Analysis of Fault Gear System	352
<i>Wang Yangang, Zheng Haiqi, Guan Zhenzhen, and Gao Feng</i>	
Contribution of System Noise to Vibration Information	355
<i>Chuanhui Wu and Xiangling Gao</i>	
Design and Implementation of Current Distribution Monitoring Program in Aluminum Reduction Cell	359
<i>Zhifang Zhang, Rentao Zhao, and Jun Tie</i>	
Implementation of a VI-Based Synchronous Testing System for Underwater Transducer Array	363
<i>Yang Han and Yun Zhu</i>	
Improved Terms Weighting Algorithm of Text	367
<i>Ma Zhanguo, Feng Jing, Hu Xiangyi, Shi Yanqin, Chen Liang, and Ma Zhanguo</i>	
Improving Spectral Clustering Algorithm Based SAR Spill Oil Image Segmentation	371
<i>Hua Bo, Jun Zhang, and Xiaofeng Wang</i>	
Internet Addiction Diagnostic Decision-Making Based on Attribute Reduction of Rough Set Theories	376
<i>Shuxiang Dong and Guojun Jia</i>	
Large Vocabulary Continuous Speech Recognition of Uyghur: Basic Research of Front-End Processor	381
<i>Muhetaer Shadike, Xiao Li, Muhetaer Shadike, and Buheliqiguli Wasili</i>	
Optimization Deployment Model of Tactics Fixed Force and Accompanying Force	386
<i>Qu Changzheng, Ming Li, Zhang Bo, and Zhang Liu</i>	
Performance Analysis with Partial Relay Selection in Amplify-and-Forward Cooperative Networks	390
<i>Xianming Chen, Yueming Cai, and Chunxiao Cai</i>	
Public Watermark Detection Using Secure Multiparty Computation	393
<i>Hong Wang and Shimin Wei</i>	

Research and Realization of a SVS Algorithm Based on STFT and NDFT	396
<i>Rongxi Chen, Zhixing Luo, Yubin Zhong, Xueliang Luo, Yiming Gao, and Guoli Zheng</i>	
Research on Fast 2-D DCT Algorithm Based on Parallel Computing	401
<i>Sun Wenbang, Chen Hexin, and Sun Wenbing</i>	
Shedding New Light on Reason for Conflict between Evidences	405
<i>Li-fang Hu, Jia-qi Liu, Xin Guan, Wei-jia Liu, and Ting-ting Zhou</i>	
Simulation Study for Observation of Space Reentry Vehicles Based on UKF	410
<i>Jian Lu, Demin Xu, Lichuan Zhang, Junbing Li, and Jian Lu</i>	
Speech Denoising Based on Improved Discrete Wavelet Packet Decomposition	415
<i>Suping Li</i>	
Sub-array Digital Multiple Beamfroming Technology on PowerPc+FPGA Architecture	420
<i>Qiu-Fei Yan, Zhao-Yang Xu, and Zhao Yu</i>	
WSN Multilateral Localization Algorithm Based on MLE	426
<i>Renxi Gong, Jiwei Zhao, Yang Huang, and Xiaobi Meng</i>	

Wireless Network

A Cluster Header Election Scheme Based on Auction Mechanism for Intrusion Detection in MANET	433
<i>Yanqing Zeng, Zhide Chen, Chen Qiao, and Li Xu</i>	
A New Kind of Ndv-hop Algorithm in Wireless Sensor Network	438
<i>Qingling Lu, Mengliang Bai, Wei Zhang, and Peng Yanli</i>	
A Novel Adaptive Resource Allocation Algorithm for Multiuser OFDM-Based Cognitive Radio Systems	442
<i>Zhang Jian and Zhu Qi</i>	
Optimal Strategy-Proof Wireless Resources Auction	446
<i>Cheng Qiao, Zhide Chen, Yanqing Zeng, and Li Xu</i>	
Performance Analysis of Distributed Opportunistic Incremental Decode-and-Forward Scheme in Cooperative Communication at Arbitrary SNR	451
<i>Yalong Zhang, Yuanyuan Gao, Baofeng Yang, and Chunming Shen</i>	
Wireless Real-Time System for Monitoring the Storage of Urban Storm Drainage: A Case Study of Caohejing Drainage System, Shanghai	455
<i>Yin Hailong and Xu Zuxin</i>	
Author Index - Volume 2	461