

Contents

Track 1: Automation Control

Approach towards Left-Turning Vehicles Trajectory at the Intersection Based on Video Technology	1
<i>Jinglong Wu, Chao Xue, Ziran Zhao, Bohang Liu</i>	
Recovery Time Analysis of a Distributed Redundancy Protocol	9
<i>Lu Han-Rong, Wang Wei-Jiang, Zheng Feng, Lu Li</i>	
The Infrared Video Image Acquisition and Display Design Based on FPGA	17
<i>Zheng Zhixiang, Meng Xianyuan, Tian Yalan, Dong Sheng, Cong Peijie</i>	
Research on the Compromising Electromagnetic Emanations of PS/2 Keyboard	23
<i>Litao Wang, Bin Yu</i>	
Pulse Wave Velocity Measurement with Velocity Vector Imaging	31
<i>Cun Liu, Qigang Zhu, Yanling Zheng, Yuanliu He, Hongxia Xu, Juan Su, Lili Zhang, Xiaohong Zhou, Zhe Ma, Changchun Liu</i>	
Finite Element Analysis on Biomass Pelletizing Process	39
<i>Tie-Li Ye, He Li, Liang Wang, Xiao-Fei Fan</i>	
Based on PLC Control System in the Application of Wastewater Treatment Plant	45
<i>Niu Qinzhou, Jia Wei, Yan Fei</i>	
Effects of Even-Order Nonlinear Terms and Oversampling Rate on Digital Baseband Predistortion Linearization	53
<i>Xiaoning Feng, Peng Zhang, Tianxiao Cui</i>	

Design and Implementation of High-Precision Multi-function Time Calibrator	61
<i>Li Yongjun, Xu Xiaorong, Jiang Pingge, Tian Yafang</i>	
Research on Defect Detection in Rubber Rings	69
<i>Zhu Hong-Li, Wang Xian-Rong, Zhu Hong-Yan</i>	
Research on the Theory and Application of Touchscreen Tactile Feedback Based on Soft Vibration	75
<i>Lu Xiang, Cao Yue</i>	
Interior Ballistic Research on Gas and Steam Launch Power System	81
<i>Chen Qinggui, Qi Qiang, Zhou Yuan, Zhao Ruyan, Wang Bin</i>	
Hierarchical Image Analysis Based on Fuzzy Control	87
<i>Zhiyong Zhang, Xiaoning Li, Yueqi Liu, Xiaofeng Li</i>	
Automatic Speech Embedded Word Method	93
<i>Xiaoning Li, Xiaofeng Li, Zhiyong Zhang, Zhuo Zhang</i>	
A QOS-Based Self Adaptive Control Strategy and Implementation for BPEL Process	101
<i>Yu Nan, Guangsheng He, Zhuo Zhao, Cheng Liu</i>	
Dynamic Workflow of Clinical Pathway System	109
<i>Lin Tongchuan, Qi Deyu</i>	
Camera Calibration Based on Extreme Learning Machine	115
<i>Chai Zhaohu, Ren Xuemei, Chen Qiang</i>	
Analysis of Electromagnetism Disturbing Wireless Fuzes by Fault Tree Method	121
<i>Zhang Yan-Pu, Wei Xian-Jie, Tan Chao-Bin</i>	
Research on Function Block Application in Process Control System	127
<i>Zhuang Xia</i>	
Uniform Quasi-synchronization of Fractional-Order Chaotic Systems in the Presence of Parameter Mismatches Using Active Control	135
<i>Ying Shi, Jinde Cao, Shun Chen</i>	
Adaptive Reclosure Technology for High-Voltage Overhead Lines Combined with Underground Power Cables Based on Travelling Wave Principle	143
<i>Zheng Haitao, Chen Ping, Wang Li-Ping</i>	
Fault Detection Based on Granular Delaminating Reasoning	151
<i>Yu Hang, Xiao Ming-Qing, Chen Li-An</i>	

Parameter Identification of Synchronous Machine Based on TLS-ESPRIT	159
<i>Jiang Jian, An Wei-zhong, Liu Hui</i>	
An Investigation about the Threshold of AEV Stopping Criterion in BICM-ID System	169
<i>Xiao Ying, Li Jianping, Cai Chaoshi</i>	
An Improved Symbol Mappings on 16QAM Constellation for BICM-ID	175
<i>Liu Na, Li Jianping, Che Qing</i>	
Coal Mine Ventilator Remote Monitoring System Based on the Fuzzy Control	181
<i>Liang Wang, Yuanjun Wang, Jitian Pei</i>	
The Research of Coal Mine Conveyor Belt Tearing Based on Digital Image Processing	187
<i>Qing-Liang Zeng, Ji-Gang Wang, Liang Wang, Cheng-Long Wang</i>	
A Method of Data Gathering and Processing for the Automatic Variable Spraying System	193
<i>Shuhui Zhang, Lixia Wang, Jiangtao Qi, Hongjun Su, Min He</i>	
Research of Monitoring System for Dangerous Goods Posture	201
<i>Xue Han</i>	
The Application of Ontology Building Based on the Form Background Feedback Mechanism of Concept Lattice	207
<i>Yan Hongcan, Wang Jian</i>	
Designation of Adult Education Administration System Architecture Design Based on C/S and B/S Mix Pattern	215
<i>Yang Yuxin, Wang Jianliang, Liu Azhu</i>	
The Design of the Control System of Navigation for UUV in Underwater Information Warfare	219
<i>Lin Wei, Yuan Bingcheng, Wu Pengfei</i>	
Design and Industrial Practice of Computer Monitoring Control System for SRB Wastewater Treatment	227
<i>Ying Ying</i>	
A New Method for the Visualization of Byzantine Fault Tolerance	233
<i>Sun Ping</i>	
Early Fire Detection in Coalmine Based on Video Processing	239
<i>Wanzhong Lei, Jingbo Liu</i>	

Research and Application of the Heat Energy Recycling Technology in Mine Return Air	247
<i>Li-Rong Wan, Jian-Liang Li, Liang Wang, Guang-Yu Zhou</i>	
2L-XMMS: An Efficient Method for Mining Infrequent Itemsets with 2-Level Multipul Minimum Supports	255
<i>Han Xi-Qing, Dong Xiang-Jun, Jiang He, Geng Ru-Nian</i>	
Research and Design on Supervision System of Coal Mine Safety Based on Fieldbus	261
<i>Zhu Li-Wang, Xu Jian-Bo, Zhu Geng-Ming</i>	
Methodology of Collaborative Design for PLM on Agricultural Machinery	269
<i>Junming Hou, Dexu Yang</i>	
Track 2: Data Mining and Statistics	
An Adaptive Threshold Method Based on the Local Energy of NSCT Coefficients for Image Denoising	279
<i>Liu Xiyu, Yao Xiaolan, Chen Xin</i>	
A New Depth Extraction Method Based on Fusion of Motion Information and Geometry Information	287
<i>Lijuan Wen, Zhiyi Qu, Lei Shi</i>	
Frame of a New Video Monitoring System for Home Safety	293
<i>Shi Wen-Chong, Liu Mao-Hua</i>	
A New Real Time Data Acquisition System for Low Hybrid Current Drive System	299
<i>Zege Wu, Jia Fang Shan, Handong Xu</i>	
Research on Application of Data Mining in Electronic Business	305
<i>Duan Junwei, Sun Hongzhi</i>	
Ancient-Coins Images Retrieve by Wavelet Transform and Relative Moments	313
<i>Feng Xiao, Mingquan Zhou, Guohua Geng</i>	
The Key Data Mining Models for High Dimensional Data	321
<i>Xiang Deng, Beizhan Wang, Haifang Wei, Minkui Chen</i>	
Study on the Methods of Encoding for Raster Data Compression	329
<i>Guo Zhao, Wang Zheng</i>	
Research on Development of Agricultural Geographic Information Ontology	335
<i>Yongqi Huang, Gaoyang Deng</i>	

Distributed Intrusion Detection Based on Outlier Mining	343
<i>Wei Da, Han Shao Ting</i>	
Research and Implementation of Full-Text Retrieval System Using Compass Based on Lucene	349
<i>Conghui Zhang, Shubo Zhan</i>	
Research and Design on the Database Used for Aircraft Conceptual Design	357
<i>Wei Chenglong, Liu Hu</i>	
The Influence of Spatial Relationship between Nodes and Information on Information Spreading in Social Network	365
<i>Shengbing Zhang, Wandong Cai, Yongjun Li, Bo Wu, Zhilin Luo</i>	
Safe and Easy Access to a Computer File-Sharing Program Laboratory Practice and Research	373
<i>Lishuang Wei</i>	
Moving Objects Mining in Videos with Distinctive Local Feature Configurations	379
<i>Ma Chao, Shen Wei</i>	
Research on Information Memory of Location Server with SIP in Distance Education System	387
<i>Shuxian Liu, Qing Cui</i>	
Framework and Construction Contents of Digital Mine	393
<i>Seng Dewen, Shu Yueqing</i>	
Research on the Application and Status Quo of Digital Mine and Sensing Mine	401
<i>Seng Dewen, Shu Yueqing</i>	
Application of Amphibious Technology in the ReutoMail	409
<i>Sun Ping</i>	
Research on Web Application Software Load Test Using Technology of TTCN-3	415
<i>Ying Li, Qinghua Liu</i>	
Design and Implementing of Database in Product Configuration Management System on Mass Customization	421
<i>Yanling Zheng, Chunying Wang</i>	
Study on Edge Extraction of Objects in Microscopic Stereo Matching	427
<i>Junming Chang, Jun Tao, Bin Yan</i>	

A Certain Asymptotically Strict Pseudocontractive Mappings in the Intermediate Sense Semigroup	433
<i>Wang Erli, Duan Qibin, Wu Dingping, Zhao Hang</i>	
Track 3: Simulation and Mathematical Modeling	
A Multi-stage Stochastic Fuzzy Methodology for Credit Evaluation	441
<i>Guo Minmin, Wang Li</i>	
Nonlinear Predictive Control Based on Inverse System Method	449
<i>Fuhua Song, Bin Lu</i>	
Research on Optimization Algorithm for Analog Circuit Simulation	459
<i>Wang Jing-Li</i>	
Shadow Removal Based on Physical Features and Morphological Methods	465
<i>Zhang Chao, Liu Shao Jie, Zhao Yu Ming</i>	
An United Security Model for Multi-Class-IS	473
<i>Wang Chao, Chen Xingyuan</i>	
An Improved Method for Close Approach Prediction between Space Objects	479
<i>Guo Xiaozhong, Yang Datao, Shen Ming, Gao Pengqi</i>	
Construction of Viral Soft Handover Nonlinear System Model in Frequency Domain Based on Cross Entropy	485
<i>Xia Wang, Zhiqiang Zhu, Shunxia Cao, Fangfang Hao</i>	
The Research of Methodology of Multi-body Parameterized Modeling for Vehicle Body Crashworthiness	493
<i>Xueqin Dong, Xichan Zhu</i>	
Active Phased Array Antenna Beam of the Integrated in Design Optimization Algorithms and Simulation	501
<i>Guilin Lu, Xun Lei Wu, Shaohong Wang, Ji Hai Yang</i>	
A Hyrid Tabu Search for the Vehicle Routing Problem with Soft Time Windows	507
<i>Liang Nai-Wen, Liu Chang-Shi</i>	
Transistor Level Modeling for Circuit Simulation	513
<i>Gao Jin, Duan Zhe-min, Yin Xi-peng, Gao Wei</i>	
Expert System for Forest Type Interpretation on Aerial Photographs	519
<i>Yin Ying-ji, Wang Ni-hong</i>	
Software Designing and Simulation of GPS Receiver	529
<i>Liang Wei-Tai, Wang Jun, Yang Jin-Pei</i>	

Feasibility of the Virtualization Based on OpenIMSCore	539
<i>Shan Chuan, Han Xiaoyong, Duan Xiaodong</i>	
The Application of the Genetic Anneal Simulation Support Vector Machine on the Predicting of the Consumer Price Index	545
<i>Luo Fangqiong, Huang Shengzhong</i>	
Research on Model of Command Signal and Instruction of Some Single Channel Control-and-Guide System	551
<i>Wei Xian-Jie, Zhang Yan-Pu, Yuan Li-Zhe</i>	
An Ontology Cloud-Shadow Model Based Knowledge Service Framework	557
<i>Feng Wang, Jiang Zhu, Shoulin Shen, Maoxiang Chen</i>	
Correlation Analysis between Stand Growth Factors and Volume of Stand Using Generalized Linear Models	563
<i>Lei Kong, Hua Yang, Xin Gang Kang, Shuo Cai</i>	
Research on Biotic Complex System Based on Multi-Agents Technology	571
<i>Hongliang Gao, Xianhe Zhang, Jinhua Liu</i>	
Self-Growing Regularized Gaussian Mixture Models for Image Segmentation	577
<i>Tao Guan, Hongxia Wang, Yan Wang</i>	
Simulation Research on Ore Block Model Building Based on Mechanical Analysis of FLAC^{3d}	583
<i>Sun Guang-Hua, Li Fu-Ping, Wang Wen-Bin</i>	
Numerical Simulation on Deformation and Stress Distribution around Spraying Hole in Outburst Coal Seam	589
<i>Yun Bao-Ju, Cheng Yuan-Ping, Zhou Hong-Xing</i>	
The Promotion of Model Research Given by the Robot Visual Images Information Bunkers	597
<i>Song Yang, Zhang Zhiyong, Liu Yueqi</i>	
Study on Regularity of Stress Change for Quarry Wall Rock in Mining of Glacis Thin Orebody with the Long Wall Mining Based on FLAC	605
<i>Zhao Shuguo, Song Weidong, Xu Wenbin</i>	
Performance Analysis of Solid Towed Array	613
<i>Zhang Xiang, Li Shu-Qiu</i>	
Based on Wavelet Transformation Mold Maximum Value Edge Examination Research	619
<i>Huang Tiankai, Huang Shengzhong</i>	

Numerical Simulation of Steel Solidification in Steel-Al20Sn Liquid to Liquid Bonding	627
<i>Zhang Jun, Zhang Peng, Du Yun-Hui, Yao Shasha</i>	
An Urban Traffic Prediction Model Based on Temporal Data Mining in Shanghai City	633
<i>Chen Hong</i>	
Numerical Simulation Study of Military Shelter Defenses Fragment	641
<i>Wang Chao, An Zhen-Tao</i>	
Design on Simulation System for Road Transport Service Training	647
<i>Wang Chang Yong, Wang Wen Zheng, Liu Shan Shan, Dai Lian Di</i>	
[r, s, t] - Colouring of One Kind of Join Graphs	655
<i>Mo Ming-Zhong, Pan Yu-Mei</i>	
Establish 3D Digital Elevation Model Based on SVG	663
<i>Lin Wei-Yong, Li Yan</i>	
The Asymptotic Equipartition Property for Nonhomogeneous Markov Chains Indexed by Trees	673
<i>Peng Weicai, Chen Peishu</i>	
Design and Implementation of Manchester Codec Based on FPGA	681
<i>Chun-Ying Wang, Yan-Ling Zheng</i>	
Ishikawa's Iterative Algorithm of Nonexpansive Mappings and Averaged Mappings	689
<i>Duan Qibin, Wang Erli, Wu Dingping, Xie Xuping</i>	
Approximation of Implicit Iteration Process for Common Fixed Point of Composite General Asymptotically Nonexpansive Mappings	697
<i>Chen Xiaomin, Xie Xuping, Duan Qibin</i>	
Strong Convergence Theorems for Lipschitzian Demi-Contraction Semigroups in Banach Spaces	705
<i>Wu Dingping</i>	
Viscosity Approximation Methods for a Finite Family of Nonexpansive Non-Self-Mappings	713
<i>Wu Dingping, Xie Xuping</i>	
Track 4: Human Factors and Cognitive Engineering	
Formalizing Workflow Abstraction Modeling Process	721
<i>Sun Shanwu, Wang Nan</i>	

Analysis and Comparison of Application of Reducing Mill by Pro / MECHANICA and ANSYS	727
<i>Bailin Fan, Ganghan Huang, Ma Quan</i>	
Emotion Recognition from Physiological Signals Based on ASAGA	735
<i>Lianzhe Zhou, Huanli Pang, Hanmei Liu</i>	
Information Management System of Skills Training Based on B/S Structure	741
<i>Zheng Hua-An, Yu Dongwei</i>	
Research on Autobody Panels Developmental Technology Based on Reverse Engineering	747
<i>Jun Ma, Qinghua Liu</i>	
Design and Implement of News Publishing System Based on MVC Design Pattern	755
<i>Li Yong-Fei, Chen Zhen-Guo</i>	
A Performance Measurement System for Supply Chain Based on AI and J2EE	761
<i>Yongchun Wu, Zhenjian Jiang</i>	
Research on Tender Evaluation Intelligent Decision Support System of Engineering Project	769
<i>Sun Xiujie, Lu Yanxia, Meng Yin, Wu Yanan</i>	
Development and Realization of Product Configuration Management Function in Mass Customization	773
<i>Li-Xia Wu</i>	
The Analysis and Verification of Cooperative Workflow Based Interactive Abstract Graph	779
<i>Liu Jian-Xin, Sun Lin-Lin, Du Yu-Yue, Hong Yong-Fa</i>	
Track 5: Web Technology	
A New Method for Measuring Firewall Throughput	787
<i>Liu Guowei, Qian Xiubin, Yan Tengfei, Huang Shaoqing</i>	
A Design and Research of Image Detection System Based on Embedded	795
<i>Hao Wang</i>	
The Research of RSA-Based Undeniable Signature Method	801
<i>Xin Li, Chunxiao Liu</i>	
Development of Touch Screen Driver Based on S3C2410 under Linux	807
<i>Chen Hao-Wei, Bai Feng-Shan, Liu Hai-Jing</i>	

Building 3D Web Map Applications Based on Google Earth and ArcGIS Server	813
<i>Haifeng Huang, Wei Liu</i>	
The Design and Implementation of the Mobile Facility Communication Software Based on Plug-In	821
<i>Zhi-Yan Xu, Yan-Pu Zhang, Yu-Qiang Chen</i>	
Formal Analysis of Authentication Protocol Based on Directed Graph Model	829
<i>Changchun Li, Kangnian Wang, Xingtao Zhu</i>	
Research of Customer Classification Based on Rough Set Using Rosetta Software	837
<i>Liangzhong Shen, Shenkai Chen</i>	
A Protocol to Support Mobile Computing for Publish/Subscribe Middleware	845
<i>Tao Xue, Tao Guan</i>	
System Design of Virtual Human Science Museum	851
<i>Jianxia Ge</i>	
ECC-Based Image Encryption Using Code Computing	859
<i>Zhongjian Zhao, Xiaoqiang Zhang</i>	
A Tamper-Resistant Authentication Scheme on Digital Image	867
<i>Guangqi Liu, Xiaoshi Zheng, Yanling Zhao, Na Li</i>	
Research on WLAN Planning System Based on Field Strength Measurement	873
<i>Ying Li, Yuzhi Wu</i>	
Track 6: Optimization and Algorithm	
An Automatic Video Image Mosaic Algorithm Based on SIFT Feature Matching	879
<i>Fuhua Song, Bin Lu</i>	
Attribute Reduction Algorithm Based on Equivalence Matrix	887
<i>Dai Xue Zhen, Ma Ying Cang, Liu Huan, Liu Da Zhuo</i>	
An Overview of Software Architecture Description Language and Evaluation Method	895
<i>Yang Lingling, Zhao Wei</i>	
The Two-Stage Filtering Algorithm Based on Local Similarity	903
<i>Genghao Zhou, Shiping Lin</i>	

Study of Voice Conversion Based on the 405LP	909
<i>Xiaoning Li, Xiaofeng Li, Zhuo Zhang</i>	
Poisson Noise Immunity Analysis of the Improved Fractional Differential Algorithm	915
<i>Jia Changyun, Jin Liang</i>	
Solving Bi-level Programming Problem Based on Electromagnetism-Like Algorithm	923
<i>Yang Xiaoling, Qiu Dishan, Shen Jianwei</i>	
Research and Realization on Dynamic Path Construction Algorithm	929
<i>Guoxing Peng, Bei Li, Qi Tong</i>	
Particle Swarm Optimization Based Active Contour Model	935
<i>Liu Xiaogang, Ren Xuemei, Xue Guangyue</i>	
Research on Mobile IPV6 Technology and Handover Performance Optimization	941
<i>Mo Lin-Li</i>	
An Efficient Variant of the Batch RSA Cryptosystem	947
<i>Guang Zhao, Hengbo Li</i>	
Image Segmentation Based on Multiscale Initialized Gaussian Mixtures	955
<i>Tao Guan, Tao Xue</i>	
A Logic Based Framework for Multi-Objective Decision Making	961
<i>Qing Zhou, Donglei Chen</i>	
Underground GOAF Filling and Management Sequence Optimization Research	967
<i>Gan Deqing, Zhang Yabin</i>	
A Fast Free-Surface Tracking Algorithm	973
<i>Chen Jing, Liu Fuyan</i>	
A Synchronization Acquisition Algorithm for UWB Signal Based on Double-Diamond Window	981
<i>Kangnian Wang, Hongde Zhang, Changchun Li, Hongyun Liu</i>	
The Multiple Linear Programming and Time Series Prediction Model Foundation and Analysis of Passenger Transport Quantity	989
<i>Zhang Aixia, Wang Zheng</i>	
A Fast Matching Algorithm for Content-Based Publish/Subscribe Systems	997
<i>Tao Xue, Qi Jia</i>	

Optimal Formation Shape Control of Wheeled Robots	1003
<i>Yixin Cao, Qinghe Wu, Huang Huang</i>	
An Adaptive Semi-fragile Watermarking Algorithm Based on Wavelet Low Frequency Coefficients	1011
<i>Ying Jun, Liu Qing, Liu Chao</i>	
Research on Chunking Algorithms of Data De-duplication	1019
<i>Cai Bo, Zhang Feng Li, Wang Can</i>	
A Multi-Objective Genetic Algorithm Based on the Uniform Design Method and Logistic Mapping	1027
<i>Ma Xiao-Shu, Liu Qing, Ma Ning</i>	
An Improved Algorithm of the Shortest Path Search Problem in GIS Field	1035
<i>Zhao Na</i>	
Research and Implementation on Detection Algorithm of Objects Left Based on Video Analysis	1041
<i>Caiyan Yu, Xiaoshi Zheng</i>	
Solving 0-1 Knapsack Problem Based on Immune Clonal Algorithm and Ant Colony Algorithm	1047
<i>Zhao Fang, Ma Yu-Lei, Zhang Jun-Peng</i>	
The Application of Virtual Reality Technology in Mechanized Mining Face	1055
<i>Li-Rong Wan, Long Gao, Zhi-Hai Liu, Liang Wang</i>	
Application of Improved Genetic Algorithm in Medical Image Registration	1063
<i>Qiliang Zhu, Qiuhua Shi</i>	
Impedance Transformation Trace Generation Algorithm Based on the Smith Chart	1073
<i>Yong Fu, Xiaoshi Zheng, Qiang Guo</i>	
A Niche-MAS Framework for Evolving Artificial Neural Networks	1081
<i>Yudong Wang, Gengming Zhu</i>	
The Preliminary Exploration of Difference Schemes in Three-Order Partial Differential Equation	1091
<i>Lingyan Han, Guanghe Cheng, Xiaogang Qu, Jiyong Xu</i>	
The Design and Implementation of Load Balancing System for Server Cluster	1097
<i>Juanjuan Min, Yi Zeng, Pandong Zhang, Guangyong Gao</i>	

A Improved SML Method for Semantic Auto-annotation of Image	1103
<i>Ouyang Jun-Lin, Zhu Geng-Ming, Wen Xing-Zi, Zhang Shao-Bo</i>	
Preprocessing Algorithm of Hand Vein Image	1111
<i>Zang Ping, Liu Cai Xia</i>	
A Faster Than Quicksort of Mutation Algorithm	1117
<i>Xiuli Wei, Furong Ji</i>	
A Game Theory and Food Chain Algorithm Based QoS Multicast Routing Algorithm	1125
<i>Junwei Wang, Tao Wu</i>	
The Study about Feature Extraction of Analog Circuit Fault Diagnosis Based on Annealing Genetic Hybrid Algorithm	1133
<i>Lin Hai-Jun, Wan Si-Bo, Zhong Hui, Wang Qi-Gao</i>	
Finite Stage MDP Method and Algorithm for Task Allocation in UCAVS ...	1141
<i>Peng He, De-Yun Zhou</i>	
The Split Feasibility Problem in Hilbert Space	1149
<i>Wu Dingping, Duan Qibin, Wang Erli, Zhao Hang</i>	
Track 7: Network Communications	
A Discrete PSO Algorithm for QoS Routing Optimization in Wireless Mesh Network	1155
<i>Muhua Zhong, Yuzhong Chen</i>	
A Local Routing Strategy on Weighted Scale-Free Networks	1163
<i>Xiao-Xi Wang, Guo-Long Chen</i>	
A Virus Spread Model Based on Cellular Automata in Weighted Scale-Free Networks	1169
<i>Ning-Ning Wang, Guo-Long Chen</i>	
An Improved Channel Allocation Scheme in IEEE 802.11s Mesh Network	1177
<i>Linhao Feng, Zhihong Qian, Dongcheng Jin</i>	
Weighted Networks of Object-Oriented Software Systems: The Distribution of Vertex Strength and Correlation	1185
<i>Gao Yang, Liu Jia, Shao Shuai, Xu Guoai, Cheng Gong</i>	
Security Evaluation Methods of Computer Networks Based on BP Neural Network	1191
<i>Liping Li</i>	

**Modularized Real-Time Communication Modem Design
Based on Software Defined Radio of Underwater Acoustic Network** 1197
Zhi Shaolong, Fang Dong, Liu Xun, Li Yu, Huang Haining

**Routing Optimizing Algorithm of Mobile Ad-Hoc Network
Based on Genetic Algorithm** 1205
Wu Xiao-Yan, Liu Yang

**Contrast Study on Two Kinds of SIP Trunking Route Scheme Based IMS
Network** 1213
Zhao Yuan, Gu Su, Wang Xiaoyun

**Epidemic Analyses on Small Worlds of Tree Topologies of Wireless
Sensor Networks** 1219
Qiao Li, Baihai Zhang, Lingguo Cui, Zhaoyao Tao

Slope Stability Evaluation in Open Pit Based on Bayesian Networks 1227
Wen Sheng Liu, Shi Bo Li, Rui Tang

Using Bayesian Networks to Measure Web Service QoS 1233
Chang Guofeng

Fiber Image Transmission System Base on FPGA 1239
Ke-Lin Sun, Wei-Chao Zhou, Qin-Zhang Wu

**The Computer Simulation Design of Error-Correcting Code
in Communication Channel** 1245
Chu Lili

P-Sets and \bar{F} -Memory Information Characteristic 1251
Wang Yang, Zheng Xin, Zhang Caijun

**Anomaly Detection System of Wireless Communication Network Based
on Data Mining** 1257
Chen Ningjun, Gao Zhinian

Study for System Bootloader Based on DSP and FPGA Shared Flash 1263
Zhang Baofeng, Zhang Suhao, Zhu Junchao, Li Xinzhi

**Research on Time and Frequency Synchronization for 3GPP LTE TDD
System over Multipath Fading Channel** 1269
Fa-Tang Chen, Lei Ma

High-Speed Optical Fiber Data Exchange Card Based on PCI-Express 1277
Kun Liu, Wei-Chao Zhou, Kun Liu

**The Application of IPv6 Transition Technology in the Construction
of Campus Network** 1285
Shi Kai

A MAC Protocol for Underwater Acoustic Network	1291
<i>Liu Xun, Li Yu, Fang Dong, Zhang Chun-Hua, Huang Hai-Ning</i>	
Computer Network Environment of Network Teaching	1299
<i>Yu Du</i>	
Design of a Wireless Sensor Network Platform for Real-Time Multimedia Communication	1305
<i>Yong Fu, Qiang Guo, Changying Chen, Jialiang Lv, Xiaoshi Zheng</i>	
Application of the ZigBee Wireless Communication Technology on the Endless Rope Continuous Tractor Derailment Monitoring System ...	1313
<i>Li-Rong Wan, Yi Liu, Liang Wang, Zhi-Hai Liu</i>	
Author Index	1319