

Contents

Constructions and Application of Network Learning Platform	1
<i>Wenjun Liao, Guohong Gao, Ying Wang, Mingli Guo, Tong Jiang</i>	
A Blind Adaptive Matching Pursuit Algorithm for Compressed Sensing Based on Divide and Conquer	7
<i>Wenbiao Tian, Guosheng Rui, Zheng Fu</i>	
Multi-resolution Model Applied to Knowledge Base System for Personalized Service	13
<i>Zhenzhen Yi, Ke Zhao, Kai Li, Shuxing Du</i>	
The Construction of the Security Ability System in Coal Enterprise	19
<i>Liu-an Kong, Wen-jing Wu</i>	
Discussion on Certain Problems and Countermeasures on Expansion of Management Advisory Services of Accounting Company in China	25
<i>Chenyun Ye, Lingyan Kou</i>	
Research on Control System of Inspecting and Adjusting Off Pattern for Rotary Screen Printing Machine	33
<i>Aiqin Sun, Jidai Wang, Dongyue Zhang</i>	
Analysis of Test Scheme for a Bayesian Plan of Qualification Test in Binomial Case	39
<i>Zhiqian Ren, Zhimao Ming</i>	
Wireless Sensor Networks Fusion Based on the Hybrid of Ordering Filter and Adaptive Weight	45
<i>Changjiang Wang, Liqin Fu, Yongmei Zhang</i>	
Process Control and Intelligent Algorithms of Network Optimization Problems under Uncertain System	51
<i>Jing Zhang</i>	

A Hybrid Clustering Based on ACO and Single-Pass	57
<i>Wen Xiong</i>	
Advanced Sensing Device for Gesture Recognition	63
<i>Yong Mu Jeong, Ki-Taek Lim, Seung Eun Lee</i>	
Research on the Reactive Power Control of Distributed Photovoltaic System	67
<i>Zhiqiang Jia, Weiping Luo</i>	
Application of Gateway in Fault Location System of Belt Conveyor	73
<i>Shaojie Yin, Jinsheng Sun</i>	
A Contract Performing Scenario Model for Web Services Collaboration ...	81
<i>Denghui Zhang, Ji Gao</i>	
A SVM Approach for MCs Detection by Embedding GTDA Subspace Learning	89
<i>Xinsheng Zhang, Minghu Wang, Fan Yu</i>	
Differential Evolution Using Local Search for Multi-objective Optimization	95
<i>Youyun Ao</i>	
The Research about Fuzzy Control of Electric Generator Stator Bar-Ends Cure-Heating	103
<i>Jie Bai, GaoJun Li, XiaoDong Tan</i>	
The Study on Phase-Control of Vacuum Circuit Breaker for Electric Railway Substation	109
<i>Jie Bai, KeLiang Shu, XiaoDong Tan</i>	
General Information Diffusion Method in Risk Analysis	115
<i>Qiong Li, Jianzhong Zhou, Donghan Liu</i>	
Multi-agent Based Bank Queuing Model and Optimization	121
<i>Qicong Zhang</i>	
Simulation of Agent-Based of Intelligent Public Transit System	129
<i>Qicong Zhang</i>	
Design and Simulation of Fuzzy Decoupling for Combustion Process of Circulating Fluidized Bed Boiler	137
<i>Hao Tong, Xiaopeng Zhao, Guozhuang Liang</i>	
The Application of Ant-Colony Clustering Algorithm to Earthquake Prediction	145
<i>Xiaoyan Shao, Xiang Li, Lingling Li, Xinru Hu</i>	

Rapid LED Optical Model Design by Midfield Simulation Verified by Normalized Cross Correlation Algorithm	151
<i>YongJiang Di</i>	
Wireless Data Acquisition and Control System Based on DCS	157
<i>Genghuang Yang, Abreham Fekibelu, Feifei Wang, Shigang Cui, Li Zhao</i>	
ARM and DSP Based Device for Power Quality Monitoring	163
<i>Genghuang Yang, Feifei Wang, Shigang Cui, Li Zhao</i>	
Chinese Ecological Risk Early-Warning Indicator System and Empirical Research	169
<i>Zeng Yongquan</i>	
The Optimization on the Multiperiod Mean Average Absolute Deviation Fuzzy Portfolio Selection	175
<i>Zhang Peng, Pan Jin</i>	
$[r,s,t]$-Colouring of Join Graphs $S_n + O_m$	181
<i>Mingzhong Mo</i>	
Study on Product Design for Seniors	187
<i>Chunqing Yang</i>	
A Time-Efficient FPGA-Based FFT Processor	191
<i>Xudong Wang</i>	
The Research on the Impact of Project Communication to Project Performance	195
<i>Zhongqing Wang, Qiang Hu</i>	
Time-Frequency Filtering for LFM Based on Time S-Transform and Time Inverse S-Transform	203
<i>HuaShan Chi, HongXing Wang, Min Zhang, PeiHong Zhao</i>	
A BP-LZ77 Compression Algorithm Based on BP Network	211
<i>HongWei Yan, HuiShan Lu, Qiang Gao</i>	
Modeling and Optimization of Frequency Hopping Sequence Designation in Asynchronous Network	217
<i>DaoCheng Lei, YongLin Yu, Gang Wang, RunNian Ma</i>	
Chinese Demographic Risk Early-Warning Indicator System and Empirical Research	225
<i>Zeng Yongquan</i>	
A Sparse Recovery Method of DOA Estimation for Uncorrelated Sources with Multi-snapshot	231
<i>MaoWei Yin, DongYang Xu, ZhongFu Ye</i>	

Compensation of Double Closed Loop Control Systems with Time-Delay and Data Packet Losses	237
<i>HuiSheng Gao, XiaoRui Li, Jun Wang</i>	
Optimization Design of Improving Signal Integrity for Enhancing Differential-Mode Transmission Lines	243
<i>Wen-Jong Chen, Ming-Huang Wu</i>	
Coordinate Transformations in Satellite Navigation Systems	249
<i>Pengfei Zhang, Chengdong Xu, Chunsheng Hu, Ye Chen</i>	
The Verification Method Research of Mining Right Boundary Based on GIS Technology in Shanxi Province	259
<i>Bei Jia, Huijuan Li, Baoping Wang</i>	
Research on Evaluation Model of Digital Library Service Quality	267
<i>YanHui Liu, DaLi Xie, XiaoBo Wang</i>	
Bayesian Model Averaging for Lasso Using Regularization Path	273
<i>Mei Wang, Erlong Yang</i>	
Optimization Design of Parameters with Hybrid Particle Swarm Optimization Algorithm in Multi-hole Extrusion Process	279
<i>Wen-Jong Chen, Dyi-Cheng Chen, Wen-Cheng Su, Fung-Ling Nian</i>	
Decision-Making Model of Business Continuity Management	285
<i>Gang Chen</i>	
Research on Energy Supply Modes of Electric Vehicle	291
<i>Changxian Cheng, Jianhua Yan</i>	
Why Does Firm Choose Internet Marketing Channel? A Firm Perspective and Contingent Framework	297
<i>Maohong Liu, Xiaoliang Feng, Minxue Huang</i>	
Study on Diluted Symmetric Discrete-Time Hopfield Network	303
<i>Li Tu, Yan Wang</i>	
Research on the BM Algorithm Based on the Intrusion Detection System ...	309
<i>Xuewu Liu, Lingyi Peng, Chaoliang Li</i>	
Modeling and Analysis of DNA Mutation Effects on Protein Structure with Finite State Machine	317
<i>Rui Gao, Wen-Song Hu, Cheng-Qiu Zhang</i>	
Design and Implementation of Solar Thermal Utilization Information System Based on GIS	325
<i>Yu Zhang, Shijun He, Shutai Zhang, Zhonghua Chen, Wenjun Zhou, Yanyan Dai, Shiting Zhao, Fan Bai</i>	

Research of Lip Contour Extraction in Face Recognition	333
<i>Kunlun Li, Ruining Xin, Miao Wang, Hui Bai</i>	
Public-Keys-Based Entity Authentication Protocol with Digital Signature for Cognitive Radio Networks	341
<i>Chao Wang, JiWen Guo</i>	
An IPA Analysis of Effective Teaching Activities in China	347
<i>Haiyan Kong</i>	
A Robust Control Scheme for Nonlinear Systems	353
<i>Limin Liu</i>	
A Research for Bilingual Courses of Embedded Systems	359
<i>Limin Liu</i>	
Research on Negative Inventory Balances Management of Modern Manufacturing Industry under ERP Environment	365
<i>LinKun Li, KaiChao Yu, YiMing Li</i>	
Design of Automatic Control System of Fructose Crystallization	371
<i>Jian Chu, Qing Lu</i>	
Text Clustering Method Based on Improved Genetic Algorithm	377
<i>ZhanGang Hao, Tong Wang, XiaoQian Song</i>	
Layout Optimization Method of Traffic Information Data Acquisition System Based on Linear Programming	383
<i>Wei Li</i>	
Application of MUSIC Algorithm to Scenario-Based Training Database Construction Method of ISAR Images	389
<i>Sang-Hong Park, In-O Choi, Jae-Heung Ye, Young-Jun Kim</i>	
The LFT Formulation of Dynamical Systems with the Uncertainties of Parameter Variations	395
<i>Jieh-Shian Young</i>	
The Design and Implementation of Wireless Network System for Temperature Control Based on ARM	403
<i>Tianhao Hu, Kunchang Chen, Xinli Wu, Dichong Wu, Canlin Mo, Renwang Li</i>	
Research of Interactive Product Design for Virtual Tourism	411
<i>Zhongyan Hu, Zaihui Cao, Jinfa Shi</i>	
Rapid Implementation of Communication-Related Simulation Equipment on the Open Web-Based Virtual Lab	417
<i>Yue Zhao, Fuan Wen</i>	

The Principle and Application Exploration of Kademlia's Structured P2P	425
<i>Xiaochun Shi, Guoqing Liu, Jinchun Feng</i>	
Automatic Color Temperature Control Circuit	431
<i>Tai-Ping Sun, Chia-Hung Wang, Huei-Jyun Lin, Kai-Yan Li</i>	
Study on Integrated Circuit Design for Multi-color LED Pulse-Width Modulation	439
<i>Tai-Ping Sun, Chia-Hung Wang, Fu-Shiung Tsau, Jia-Hao Li</i>	
An Embedded Controller for Smart Products	447
<i>Limin Liu</i>	
Fuzzy Comprehensive Evaluation on the Quality of Vehicle Equipment Maintenance Based on Membership Degree Transformation Algorithm	453
<i>XiaoLing Wei, ZhiWen Chen, ZhenZhong Zhou</i>	
Moving Vehicle Detection Based on Union of Three-Frame Difference	459
<i>Caiyuan Chen, Xiaoning Zhang</i>	
Improving the Learning Performance by Providing Intellectual Suggestions	465
<i>Mohammad Sarem, Mostafa Bellafkih, Mohammad Ramdani</i>	
The Study of Substation Automation Remote Communication for Multi-granularity Access Control System	473
<i>Lichun Shi, Haimei Xiao</i>	
Parameter Estimation of Sinusoidal Signal under Low SNR	481
<i>Mingjian Sun, Xiaowei Zhang, Fanming Meng</i>	
Contour Algorithm Based on GVF Snake	491
<i>Fan Zhang, Shengwei Li, Gang Zheng, Rui Li</i>	
The Design of Partial Electric and Control System for 500kV Substation ...	497
<i>Haimei Xiao, Lichun Shi</i>	
Research on the Secure Access of E-Commerce	505
<i>Longjun Zhang</i>	
A Secure Authentication Scheme of Wireless Mesh Network	511
<i>Longjun Zhang</i>	
Research on Capacity Allocation in a Supply Chain System Based on TOC	517
<i>Kaijun Leng, Yuxia Wang</i>	
Research of Data Acquisition Controller for DO Based on FPGA	525
<i>WeiSheng Zhong, YaPing Wang</i>	

Research on the Simplification of BOM Maintenance under the Condition of ERP	531
<i>Jia Zhang, Kaichao Yu</i>	
Simulation and Analysis of the Common-Emitter Circuit in Analog Electronics Teaching	537
<i>Xiao-Hong Wu, Bin Wu, Jun Sun, Zhen-Yu Wang</i>	
Research on the Evaluation of the Third Party Reverse Logistics Suppliers	543
<i>QingKui Cao, JingHua Zhang</i>	
Simulation Analysis of Traffic Capacity for Ticket Gates of Metro Station	549
<i>Xin Han, Xie He, Beihua Cong</i>	
Analysis of Compensation Strategies for Dynamic Voltage Restorer Based on DSFR-PLL Control	555
<i>Xiaoying Zhang, Jun Yan, Zhiwei Wen, Dan Jin</i>	
Design of H.264 Encoder Based on ADSP-BF561	563
<i>Qinghui Wang, Guian Wu, Ying Gao</i>	
Optimized Implementation of H.264 Integer Transform Based on Blackfin 533	569
<i>QingHui Wang, HuaPing Xue, JingJing Yang</i>	
Power Line Communication System Design for LED Transmission	575
<i>Tai-Ping Sun, Chia-Hung Wang, Jia-Yu Chen</i>	
The Design of Multi-parameter and Portable Monitor for Sleep Apnea Status	583
<i>XiaoMei Liu, Ying Lian, ShaoChun Chen, ShanShan Tang</i>	
The Design of Body Sensor Network Based on CC430	589
<i>XiaoMei Liu, ShanShan Tang, ShaoChun Chen, Ying Lian</i>	
Historical and Status Quo Analysis on the Production and Consumption of China's Electric Power Energy	595
<i>Jie Yao, Jin Zhu, Wei Gao</i>	
A High Performance Audio Watermarking Algorithm Based on Substitution in Wavelet Domain	601
<i>Huan Hao, Liang Chen, Yipeng Zhang, Yinguang Zhang, Bo Zhang</i>	
Generalization Model of State Observers Based on Delay-Quantization Method	609
<i>Leiming Liu, Chaonan Tong</i>	

Design of Doherty Amplifier in Digital TV Transmitter	615
<i>Chen Jun, Su Kaixiong</i>	
Fusion Method of Feature Weight Based on Evidence Support Matrix	621
<i>Guochu Chen, Rui Miao, Yue Li</i>	
Implementation and Application of DSP-LCD Driver Based on Framebuffer	627
<i>Qinghui Wang, Xiaoying Chang, Ansong Feng</i>	
A Novel Energy Efficient Cluster-Based Algorithm for Wireless Sensor Networks	633
<i>Bin Jiao, Youping Xiong</i>	
A 3D Temperature Field Reconstruction Algorithm Based on Acoustic Travel-Time Tomography	639
<i>Hua Yan, Kun Li, ShanHui Wang</i>	
Evaluating Gigabit Switches Using Perfect Communication	645
<i>JianMing Zhao, YongNing Guo</i>	
Application of Virtual Prototype Technology to Simulation Test for Airborne Software System	653
<i>Yang Wang, Lifeng Wang, Zewei Zheng</i>	
Deconstructing the Ethernet	659
<i>Zhong Chen, YongNing Guo</i>	
Comment on a Research and Analysis Four-Prime RSA	669
<i>Yongning Guo, Chenglian Liu</i>	
An Improved FastIMM Algorithm Based on α-β and α-β-γ Filters	677
<i>Junchen Sha, Jianping Xing, Zhenliang Ma, Liang Gao, Can Sun, Juan Sun</i>	
An Approach on Feature Selection of Cascaded Support Vector Machines with Particle Swarm Optimization Algorithm	689
<i>Ruihu Wang, Zhangping Hu, Liang Chen, Jing Xiong</i>	
Quantitative Analysis of Survivability Based on Intrusion Scenarios	701
<i>Chengli Zhao, Zhiheng Yu</i>	
Facial Expression Recognition Based on Local Binary Patterns and Least Squares Support Vector Machines	707
<i>Xiaoming Zhao, Shiqing Zhang</i>	
Facial Expression Recognition Using Kernel Locality Preserving Projections	713
<i>Xiaoming Zhao, Shiqing Zhang</i>	
Author Index	719