

# **2010 2nd International Workshop on Intelligent Systems and Applications**

**(ISA 2010)**

**Wuhan, China  
22 – 23 May 2010**

**Volume 1  
Pages 1-734**



**IEEE Catalog Number: CFP1060G-PRT  
ISBN: 978-1-4244-5872-1**

# ISA 2010 Table of Contents

## Volume I

<b>Attitude Control of a Miniature Helicopter using Adaptive Backstepping Method.....</b>	<b>1</b>
<i>Guanqing Chang, Hanbo Qian, Guoliang Fan and Hongxing Chang</i>	
<b>A Hierarchical Classification Model Based on Granular Computing .....</b>	<b>5</b>
<i>Yinghua He, Bing Liu and Kunlong Zhang</i>	
<b>An Improved Genetic Algorithm and its Blending Application with Neural Network.....</b>	<b>9</b>
<i>Tai-shan Yan</i>	
<b>A New Algorithm for QoS-aware Composite Web Services Selection .....</b>	<b>13</b>
<i>Zhi-Zhong Liu, Zhi-Jian Wang, Xiao-Feng Zhou, Yuan-Sheng Lou and Ling Shang</i>	
<b>Improved PSO &amp; Its Application for DOPF in FSWGs Integrated Power System .....</b>	<b>17</b>
<i>Gonggui Chen, Hangtian Lei and Jian Xu</i>	
<b>Automatic Clustering with Differential Evolution using Cluster Number Oscillation Method .....</b>	<b>22</b>
<i>Wei-Ping Lee, Shen-Wei Chen</i>	
<b>Model Checking Based Security Policy Verification and Validation .....</b>	<b>26</b>
<i>Jianli Ma, Dongfang Zhang, Guoai Xu and Yixian Yang</i>	
<b>Sliding Mode Control of Rotary Drilling System With Stick Slip Oscillation .....</b>	<b>30</b>
<i>Qi-zhi Zhang, Yu-yao He, Lin Li and Nurzat</i>	
<b>An Improved Possibilistic Clustering based on Differential Algorithm .....</b>	<b>34</b>
<i>Yating Hu, Fuheng Qu, Yong Yang, and Xinchao Gu</i>	
<b>Binocular Vision-SLAM Using Improved SIFT Algorithm.....</b>	<b>38</b>
<i>Dai-xian Zhu</i>	
<b>A New Differential Pattern Steering Method of Nonlinear Active Antenna Array .....</b>	<b>42</b>
<i>Ming-hao He, Zhi-kai Tang and Yuan Hao</i>	
<b>Numerical Simulation of Air Flow Properties around a Train Body in Long Tunnel Space .....</b>	<b>46</b>
<i>Yanfeng Zhu, and Zhanlin Cui</i>	
<b>Application of Signed Directed Graph Based Fault Diagnosis of Atmospheric Distillation Unit .....</b>	<b>50</b>
<i>Dong Gao, Beike Zhang, Xin Ma and Chongguang Wu</i>	
<b>A Novel Knowledge Discovery Method for Chinese Architectural Document.....</b>	<b>55</b>
<i>Xiang Zhang, Changhua Li, Mingquan Zhou, Na Ye and Lehong Dong</i>	
<b>An Improvement of Payload-based Intrusion Detection using Fuzzy Support Vector Machine .....</b>	<b>59</b>
<i>Guling Zhang, Yongzhen Ke, Liankun Sun and Weixin Liu</i>	
<b>Solving Linear Variation Inequality by Particle Swarm Optimization .....</b>	<b>63</b>
<i>Liangdong Qu and Dengxu He</i>	
<b>Research on Improved Neural Network Forecast Basing on Genetic Algorithm .....</b>	<b>67</b>
<i>Ning Chang</i>	
<b>The Fuzzy Adaptive Smith-PID Control of Three-Tank-System.....</b>	<b>71</b>
<i>Cui Hao, Denghua Li and Shuhua Peng</i>	

<b>A Triggered Dynamic Mechanism for BitTorrent-like P2P Bandwidth Management.....</b>	<b>75</b>
<i>Rong OuYang, Hui Cao, Xianghua Xu and Jian Wan</i>	
<b>The Study on the Fixed End Wave in Magnetostrictive Position Sensor.....</b>	<b>81</b>
<i>Xiaoming Chang, Zheng Wang and Hiroyuki Wakiwaka</i>	
<b>Efficient Data Association for Vision-based SLAM .....</b>	<b>85</b>
<i>Xiao-hua Wang, and Dai-xian Zhu</i>	
<b>An Optimal CAC Scheme based on GSMDP Model in Heterogeneous Wireless Networks .....</b>	<b>89</b>
<i>Wen Chen, Jinming Yu and Feng Pan</i>	
<b>Delay-dependent Robust Stability for T-S Fuzzy Descriptor Networked Control System with Multiple Time Delays .....</b>	<b>95</b>
<i>Baoping Ma and Qingmin Meng</i>	
<b>XIOF: Finding XIO for Effective Keyword Search in XML Documents.....</b>	<b>99</b>
<i>Xia Li, Zhanhuai Li, Peng Wang and Qun Chen</i>	
<b>Poisson Versus Gaussian Distribution for Object Tracking in Wireless Sensor Networks .....</b>	<b>105</b>
<i>Yun Wang, Fei Li and Fang Fang</i>	
<b>Differential Evolution Algorithm with Perturb Strategy Operator .....</b>	<b>109</b>
<i>Wei-Ping Lee and Chang-Yu Chiang</i>	
<b>Neural Network Learning based on Chaotic Imperialist Competitive Algorithm .....</b>	<b>113</b>
<i>Marjan Abdechiri, Karim Faez, and Helena Bahrami</i>	
<b>Study on Fire Detection Model based on Fuzzy Neural Network.....</b>	<b>118</b>
<i>Quanmin Guo, Junjie Dai, and Jian Wang</i>	
<b>Fuzzy Immune Adaptive Smith-PID Control for Water Quality Adjusting System of Thermal Power Plant .....</b>	<b>122</b>
<i>Shu-Hua Peng, Cui Hao, and Li -Hua Deng</i>	
<b>Social View based User Modeling for Recommendation in Tagging Systems by Association Rules .....</b>	<b>126</b>
<i>Keqin He, Liang He, Xin Lin, and Wei Lu</i>	
<b>A New PSO Algorithm based on Adaptive Grouping for Photovoltaic MPP Prediction .....</b>	<b>131</b>
<i>Qiang Fu, and Nan Tong</i>	
<b>Design of Early Fatigue Detection Elements of a Wearable Computing System for the Prevention of Road Accidents .....</b>	<b>136</b>
<i>Mahesh M. Bundeale, and Rahul Banerjee</i>	
<b>Expert System for Speaker Identification using Lip Features with PCA .....</b>	<b>140</b>
<i>Anuj Mehra, Mahender Kumawat, Rajiv Ranjan, Bipul Pandey, Sushil Ranjan, Anupam Shukla, and Ritu Tiwari</i>	
<b>E-mail Filtering based on Analysis of Structural Features and Text Classification .....</b>	<b>144</b>
<i>Xiao Li, Junyong Luo, and Meijuan Yin</i>	
<b>A New Method to Compute the Word Relevance in News Corpus .....</b>	<b>148</b>
<i>Jinpan Liu, Liang He, Xin Lin, Mingmin Xu, and Lu Wei</i>	
<b>Research on the Approach of Rules Extraction based on Concept Granule .....</b>	<b>154</b>
<i>Jiucheng Xu, Wanli Cheng, and Xiaoyan Li</i>	

<b>Mining Maximal Frequent Dense Subgraphs without Candidate Maintenance in PPI Networks.....</b>	<b>158</b>
<i>Miao Wang, Xuequn Shang, Xiaogang Lei, and Zhanhuai Li</i>	
<b>The Reduction Algorithm of Hybrid Decision System based on Neighborhood Granulation and Niche Clone Selection.....</b>	<b>162</b>
<i>Xijun Chen, and Baiting Zhao</i>	
<b>Using Direct and Indirect Neighbours to Predict Protein Function in GO-Evaluated PPI Data Set.....</b>	<b>166</b>
<i>Miao Wang, Xuequn Shang, Shaohua Zhang, and Zhanhuai Li</i>	
<b>A Method of Robot Navigation based on the Multi-sensor Fusion .....</b>	<b>170</b>
<i>Yu Miao, and Shu-qin Li</i>	
<b>The Research on the Maximum Branch Number of P-Permutations.....</b>	<b>174</b>
<i>Haiqing Han, and Huanguo Zhang</i>	
<b>A Smart Image Background Recognition Model and Its Application to Content-based Image Retrieval.....</b>	<b>178</b>
<i>Pindi Wen, and Cun Liu, Jian Li</i>	
<b>Study on the Methodology of Quantitative Gold Immunochromatographic Strip Assay .....</b>	<b>182</b>
<i>Yurong Li, Nianyin Zeng, and Min Du</i>	
<b>The Whole Crankshaft Model for Dynamic Simulation Analysis of the Diesel Engine .....</b>	<b>186</b>
<i>Xiaorong Zhou, Ganwei Cai, Zhuan Zhang, and Zhongqing Cheng</i>	
<b>Research of Displacement Self-apperceive Micro-feed Tool Carrier based on GMM.....</b>	<b>190</b>
<i>Zhen Yu, Ding-fang Chen, Yan-fang Yang, Hui Zheng, and Xue-hui Chen</i>	
<b>A Method to Calculate Queuing Delay for Real-time Services in IP Networks.....</b>	<b>194</b>
<i>Wenwei Li, Jinming Yang, and Dafang Zhang</i>	
<b>Research on Ontology-based Method for Modeling Structural Damage Identification System.....</b>	<b>198</b>
<i>Hong-bing Sun, Shen-fang Yuan, Qi Chang, Xiaoyue Zhang, and Dong Liang</i>	
<b>Research and Application of Cloud Storage.....</b>	<b>202</b>
<i>Jia-bin Deng, Juan-li Hu, Anthony Chak Ming Liu, and Juebo Wu</i>	
<b>An Exact Method for U-shaped Assembly Line Balancing Problem.....</b>	<b>207</b>
<i>Zhang Zeqiang, and Cheng Wenming</i>	
<b>Data Aggregation Algorithm based on Grid and Adaptive Genetic Algorithm for Wireless Senor Networks with a Mobile Sink.....</b>	<b>211</b>
<i>Qingqing Li, Chunlin Li, and Jun Li</i>	
<b>A Study for Important Criteria of Feature Selection in Text Categorization .....</b>	<b>215</b>
<i>Yan Xu</i>	
<b>A Novel Network Traffic Model based on Superstatistics Theory.....</b>	<b>219</b>
<i>Yue Yang, Hanping Hu, Wei Xiong, and Fan Ding</i>	
<b>Sliding Mode Fuzzy Control for a Once-through Stream Generator without System Model .....</b>	<b>223</b>
<i>Gui-feng Zhang, and Xu-fen Xie</i>	
<b>Continuous Hopfield Neural Network based Stereo Correspondence .....</b>	<b>227</b>
<i>Qingbo Zhu, and Hongyuan Wang</i>	

<b>An Effective Search Scheme for Gnutella-Like P2P Networks</b> .....	230
<i>Jin Bo</i>	
<b>Modified Differential Evolution for Task Assignment Problem</b> .....	235
<i>Changshou Deng, Bingyan Zhao, Yanling Yang, and Yan Liu</i>	
<b>Facial Expression Synthesis based on Cloud Model</b> .....	239
<i>Juebo Wu, Hehua Chi, Shuliang Wang, and Lianhua Chi</i>	
<b>Performance on Suboptimal Antenna Selection for Cooperative Cell System</b> .....	243
<i>YongHui Chen, and Lin Chen</i>	
<b>Group Decision Making Method based on Ordinal Preference Information Set</b> .....	246
<i>Yan Chen, Jing Liu, and Xia Chen</i>	
<b>Design of Wireless Sensor Network Management System based on ZigBee Technology</b> .....	250
<i>Jian Wan, Daxi Wang, and Xianghua Xu</i>	
<b>Optimal Control for Reservoir Production Working System Using Gradient-based Methods</b> .....	254
<i>Kai Zhang, Jun Yao, Liming Zhang, Xia Yan, and Huanhuan Qian</i>	
<b>Towards A Web Services Selective Optimizing</b> .....	258
<i>Ruliang Xiao</i>	
<b>A Composite ABS Control Method for EV with Four Independently-driving Wheels</b> .....	262
<i>Ji Wang, Chuanxue Song, and Liqiang Jin</i>	
<b>Development of CAN Card Driver Module Using S-function in xPC Target</b> .....	266
<i>Chuan-xue Song, Jian-hua Li, Li-qiang Jin, and Ji Wang</i>	
<b>Design and Implementation of Distributed Measuring Instruments Information Management System</b> .....	270
<i>Fengwei Wang, Zhihong Xing, Yue Wang, Longjun Jin, and Zheng Liu</i>	
<b>An Expert System for Single Circuit Pulp Consistency Control</b> .....	274
<i>Jiayu Kang, and Linan Mi</i>	
<b>Human-Simulated Intelligent System for Multi-Circuit Pulp Consistency Control</b> .....	278
<i>Jiayu Kang, and Linan Mi</i>	
<b>Study of How to Identify Nonlinear System based on Neural Network by MATLAB Toolbox</b> .....	282
<i>Li-qiang Jin, and Weiqiang Yue</i>	
<b>Residual-balanced Spanning Tree Problem of Topology-aware ALM</b> .....	286
<i>Jianqun Cui, Keming Jia, and Libing Wu</i>	
<b>Wireless Fingerprint Attendance System based on ZigBee Technology</b> .....	290
<i>Jian-po Li, Xu-ning Zhu, Xue Li, Zhi-ming Zhang, and Ji-sheng Sui</i>	
<b>Optimization Design of Expressway Emergency Traffic Organization Programs under Circumstance of Road Network</b> .....	294
<i>Jian-Jun Wang, Ping Liu, Long Mao, and Ying Shen</i>	
<b>Design and Implement of Information Model and Communication Protocol for Monitoring of Power Supply</b> .....	298
<i>Huiran Wang, and Ruifang Ma</i>	

<b>Research on the Virtual Reality Simulation Engine .....</b>	<b>302</b>
<i>Xiaoli Guo, Li Feng, and Hong Liu</i>	
<b>Spatio-temporal Weighted Spectrum Cooperation Sensing in Cognitive Radio Networks .....</b>	<b>306</b>
<i>Xianjun Zhou, Jiansheng Zheng, Yi Du, and Qian Zhang</i>	
<b>A Novel Quotient Space Computing Model based on Extension Theory .....</b>	<b>310</b>
<i>Zhi-hang Tang, and Hui-ying Peng</i>	
<b>KLPPCA Based on Features Fusion and Application in Facial Recognition .....</b>	<b>314</b>
<i>Lin Yang, Ligen Peng, and Chunzhi Wang</i>	
<b>Simulation and Experiment of Phase Noise for Nonlinear Antenna Array .....</b>	<b>318</b>
<i>Kai-bing Qin, Jun Han, and Guo-cheng Jiang</i>	
<b>Spare Optimization Using Genetic Algorithms.....</b>	<b>321</b>
<i>Xiaoli Zou</i>	
<b>Application in Auto-body Inner Packaging Integrating Case-Based Reasoning and Constraint Satisfaction .....</b>	<b>325</b>
<i>Di Li, Jiachuan Xu, and Wenqian Kang</i>	
<b>Study on Intelligent Traffic Control Based BRT .....</b>	<b>329</b>
<i>Yin Zhu</i>	
<b>Efficiently Mining the Recent Frequent Patterns over Online Data Streams .....</b>	<b>333</b>
<i>Hui Chen</i>	
<b>Images Segmentation Method on Comparison of Feature Extraction Techniques .....</b>	<b>337</b>
<i>Haihui Wang, Yanli Wang, Tongzhou Zhao, Miao Wang, and Mingpeng Wu</i>	
<b>Model of Server Cluster System based on Mobile Agent .....</b>	<b>341</b>
<i>Chunzhi Wang, Yi Hu, Siwei Wei, and Hongwei Chen</i>	
<b>Road Surface Temperature Monitor System Realization Based on Rich Internet Application Model and GPRS Technology .....</b>	<b>344</b>
<i>Baohua Tan</i>	
<b>Anti-disaster Power Security Risk Assessment Framework and Its Application.....</b>	<b>348</b>
<i>Hui Hou, Yongchaun Zhang, and Jianzhong Zhou</i>	
<b>A Knowledge Management Approach for Real-time Business Intelligence .....</b>	<b>352</b>
<i>Houxing You</i>	
<b>A Data-aggregated Unequal Clustering Routing Protocol for Wireless Sensor Networks.....</b>	<b>356</b>
<i>Xu Lu, Lianglun Cheng, and Ning Yang</i>	
<b>The Application of Numerical Simulation Method in the Simulation of Radiation Noise .....</b>	<b>360</b>
<i>Lai Wei, and Sui-hua Zhou</i>	
<b>P-Sets and P-Information Law Recovery-Identification.....</b>	<b>364</b>
<i>Shunliang Huang, Xiuyan Yu, and Rui Song</i>	
<b>The Synthetic Assessment Modeling of Ships' Oil Spill Risk based on Fuzzy Neural Network .....</b>	<b>368</b>
<i>Xin Cao, and Shidong Fan</i>	

<b>Research of the Simulation System of Ship Repair Based on Multi-agent and HLA .....</b>	<b>372</b>
<i>Yong-ming Zhang, Jin-chao Zhao, Hao-yan Qu, and Ye Chen</i>	
<b>Study of Punching-teeth Test Platform based on Image Processing Technology .....</b>	<b>376</b>
<i>Yongping Zhu, Shengjun Cao, and Juan Wan</i>	
<b>Research on Properties of Magnetic Machine Coupling for Micro-feed Tool Carrier based on GMM.....</b>	<b>379</b>
<i>Zhen Yu, Hui Zheng, Ding-fang Chen, Quan-guo Lu, and Jie Mei</i>	
<b>Dynamic Clustering Algorithm based on Granular Lattice Matrix Space Model.....</b>	<b>383</b>
<i>Xiaoli Hao, Fu Duan, and Bin Liang</i>	
<b>A New Method of Extracting Chinese Term based on Open Corpus .....</b>	<b>387</b>
<i>Jianzhou Liu, and Jianzhou Liu</i>	
<b>Study on the Abnormal Traffic Incident Forewarning Model based Advanced Neural Networks .....</b>	<b>391</b>
<i>Yin Zhu</i>	
<b>An Adaptive HARQ System based on Cross-layer Design in Wireless Sensor Networks .....</b>	<b>395</b>
<i>Jun Tu, Zhi Zhang, Yu Cheng, Zhi-wei Ye, and An-qing Wu</i>	
<b>System Dynamics of Chronic Hepatitis B—Modeling the Virus and Immune System of Chronic Hepatitis B.....</b>	<b>399</b>
<i>Changjiang Long, Huan Qi, and Wan Peng</i>	
<b>Joint Wavelet Frequency-division and Radial Trace Transform for Surface Wave Attenuation .....</b>	<b>403</b>
<i>Junhua Zhang, Shengtao Zang, Lianyu Shan, Lingguang Shi, and Fengxian Liang</i>	
<b>A Framework for Long-distance Measurement in Complex Environments.....</b>	<b>407</b>
<i>Chen Long, and Chen Hao</i>	
<b>An Optimal Strategy of Fault-tolerant Routing based on Inhomogeneous Directional de Bruijn Graph.....</b>	<b>411</b>
<i>Chuiwei Lu, Chao Gao, Honghua Wu, Zhaochun Zhang and Junhua He</i>	
<b>Optimization of Braking Force Distribution Coefficient for Car-trailer .....</b>	<b>415</b>
<i>Mei-zhi Xie, Chao-yi Wei and Feng-yan Yi</i>	
<b>Rock Fracture Extracting on Fractional Differential .....</b>	<b>419</b>
<i>Weixing Wang, Juan Wan and Zhao Yang</i>	
<b>Micro Rock Fracture Image Acquisition And Processing.....</b>	<b>423</b>
<i>Weixing Wang and Xin-nian Wang</i>	
<b>A Image Thresholding Method based on Binary Coded Ant Colony Algorithm.....</b>	<b>427</b>
<i>Zhiwei Ye, Zhengbing Hu, Huamin Wang and Wei Liu</i>	
<b>A Extended TOPSIS Method for the Stochastic Multi-criteria Decision Making Problem Through Interval Estimation .....</b>	<b>431</b>
<i>Wen-tao Xiong and Huan Qi</i>	
<b>Inside Flow Field Analysis of Automobile Hydraulic Retarder .....</b>	<b>435</b>
<i>Zhigang Fang, Xuexun Guo, Jun Yan and Tao Yang</i>	
<b>Entity Meta-Service Composition based on Semantic Analysis .....</b>	<b>438</b>
<i>Dong Zhong, Yian Zhu, Wanbao Lei, Jianhua Gu and Yunlan Wang</i>	

<b>On Defect N-extendable Bipartite Graph and Its Application .....</b>	<b>442</b>
<i>Xuelian Wen and Zihui Yang</i>	
<b>Optimal Design of Structures with Discrete Variables Based on Improved Genetic Algorithms .....</b>	<b>446</b>
<i>Sun Guofu and Ge Yanhui</i>	
<b>A New Multiplicative Noise Elimination Method Based on Combining Homomorphic Filtering with Nonlinear Fourier Spectral Subtraction .....</b>	<b>450</b>
<i>Guang Chen, Zhiliang Ren, Tao Zhang and Changcun Sun</i>	
<b>Traffic Intersection Signal-planning Multi-object Optimization Based on Genetic Algorithm .....</b>	<b>454</b>
<i>Zhang Ben, Shang Lei and Chen Dan</i>	
<b>A Fast Multidimensional Scaling Analysis for Mobile Positioning .....</b>	<b>458</b>
<i>Shuang Qin, Qun Wan, Zhang-Xin Chen and An-Min Huang</i>	
<b>An Efficient 3D Face Recognition Method using Geometric Features .....</b>	<b>461</b>
<i>Yong-An Li, Yong-Jun Shen, Gui-Dong Zhang, Hua-Long Xu, Taohong Yuan and Xiu-Ji Xiao</i>	
<b>A New Camera Calibration Method Based on Rectangle Constraint .....</b>	<b>465</b>
<i>Wenhuan Wu, Zhanwei Chen and Ze-tao Jiang</i>	
<b>The Fog Emergency Traffic Organization of Loop Expressway under Circumstance of Traffic Accident .....</b>	<b>469</b>
<i>Jian-jun Wang, Fa-shun Yang, Qian-qian He and Liping Qiu</i>	
<b>Reliability Evaluation of Power Communication Network Based on FAHP and Entropy Method .....</b>	<b>474</b>
<i>Zhendong Zhao, Miaomiao Qi, Yadong Zhang and Xuedong Xiao</i>	
<b>Value Ordering Heuristic for Solving Algorithm Based on the AC-4 Algorithm .....</b>	<b>478</b>
<i>Zhan-shan Li, Hui-ying Du, Shi-mei Xing and Fan-wei Meng</i>	
<b>Commercial Service Discovery in Mobile E-Business Enviroments.....</b>	<b>482</b>
<i>Guangwei Fang</i>	
<b>A Novel Rules Extraction Method Based on Clustering Analysis.....</b>	<b>486</b>
<i>Zhi-hang Tang and Hui-ying Peng</i>	
<b>Quantitative Analysis and Countermeasures Research of P2P Routing Attacks .....</b>	<b>490</b>
<i>Chuiwei Lu, Fang Li, Jun Cheng, Bo Ni and Huiyan Li</i>	
<b>Transaction Level Modeling Technique in Hardware Acceleration for CT Medical Image Reconstruction.....</b>	<b>494</b>
<i>Guowei Xue and Yan Zhang</i>	
<b>The Integrative Application of Anti-jamming Technology for Radar .....</b>	<b>498</b>
<i>Mingjiu Lv, Ming Zhou and Qinglei Du</i>	
<b>Digital Filter Design Using Evolutionary Algorithms.....</b>	<b>502</b>
<i>Huicong Wu and Xuejun Song</i>	
<b>A Novel Router Software Architecture Supporting Reconfiguration .....</b>	<b>506</b>
<i>Tong Zhu and Julong Lan</i>	
<b>Open Rainbow Services-Oriented Testbed: Low Cost Cloud Computing Platform for Open Systems Research.....</b>	<b>510</b>
<i>Ming Xie, Yibo Chen, Chanle Wu, Xiaojun Guo, Lian He, Xingzhi Lin and Yue Huang</i>	



<b>Modeling and Simulation of Automotive Four-channel Hydraulic ABS Based on AMESim and Simulink/Stateflow .....</b>	<b>514</b>
<i>Ji Wang, Chuanxue Song and Liqiang Jin</i>	
<b>A Multi-dimension Dynamic Trust Evaluation Model Based On GA.....</b>	<b>518</b>
<i>Shunan Ma and Jingsha He</i>	
<b>Mining Frequent Patterns from Software Defect Repositories for Black-box Testing.....</b>	<b>522</b>
<i>Ning Li, Zhanhuai Li and Lijun Zhang</i>	
<b>Real-time Endpoint Detection Algorithm Combining Time-frequency Domain .....</b>	<b>526</b>
<i>Ming-zhong Zhou and Li-xin Ji</i>	
<b>Research on Implementing Real Time Ethernet for Ship Power System .....</b>	<b>530</b>
<i>Chongyuan Hou, Hanhong Jiang, Yuan Yang, Wanzhi Rui and Lianwu Hu</i>	
<b>An ETL Services Framework Based on Metadata .....</b>	<b>534</b>
<i>Huamin Wang and Zhiwei Ye</i>	
<b>Stability Simulation of Operation for Tractor-semitrailer Based on Root-locus Method.....</b>	<b>538</b>
<i>Feng-yan Yi, Mei-zhi Xie and Chao-yi Wei</i>	
<b>Design and Implementation of Resistance Mechanisms against Malicious Code Attack for Secure SoC.....</b>	<b>542</b>
<i>Luguo Zhang, Zheng Li and Shengjun Wen</i>	
<b>An Extential Steganalysis of Information Hiding For F5.....</b>	<b>546</b>
<i>Ming-wei Tang, Ming-yu Fan and Guang-wei Wang</i>	
<b>Research on the Girth of the BC Graph .....</b>	<b>550</b>
<i>Yanzhong Hu, Hao Li and Jinsong Zhou</i>	
<b>Application Studies of Immune PI Controller in Double Closed-Loop DC Speed Regulation System .....</b>	<b>554</b>
<i>Wang Sue</i>	
<b>The Transformer Station Remote Monitoring System Based On ARM/GPRS Network.....</b>	<b>558</b>
<i>Chunming Wu and Qiang Geng</i>	
<b>Dynamics Analysis of Joint Ball-Socket Nozzle.....</b>	<b>562</b>
<i>Wenzhi Liu, Jianxin Wu, Xiaoqin Li and Weilinag Tian</i>	
<b>Clustering Algorithms of Wireless Sensor Networks .....</b>	<b>566</b>
<i>Ying Liao, Huan Qi and Chuxiang Chen</i>	
<b>The Application of Vendor Managed Inventory in Supply Chain Management— Panasonic Electric Work - Wanbao(Guangzhou) Co. Ltd. as a Case.....</b>	<b>571</b>
<i>Jun Li and Xinhong Fu</i>	
<b>Design and Simulation of Fuzzy-PID Controller Based on Mixed Injection Molding Machine.....</b>	<b>575</b>
<i>Jian-ming Du and Yi-xing Luo</i>	
<b>Tire Safety Detecting System based on ZigBee .....</b>	<b>578</b>
<i>Hailun Wang, Chundi Jiang and Shiming Yu</i>	
<b>The ArcGIS Applied Designing and Study on Regional Farming Resources System .....</b>	<b>582</b>
<i>Yan-jiao Men and Jian-dong Fang</i>	
<b>Sinusoidal Pulse Width Modulation Design Based DDS.....</b>	<b>586</b>
<i>Shuangxi Gao, Shufu Cao and Ying Zhang</i>	

<b>Designing Product to Improve Affective Communication.....</b>	<b>590</b>
<i>Lei Shi and Zhibin Xie</i>	
<b>Optimization of Incentive Contracts for Marketing Personnel’s Technological Innovation .....</b>	<b>594</b>
<i>Heping Zhong</i>	
<b>Luster Security Mechanism: Models, Schemes and Research based on PKI .....</b>	<b>598</b>
<i>Su-qin Liu, Xing-sheng Li, Jun Shuo, Jing Wang and Hui-hui Liu</i>	
<b>Diagnosis Technology Research of Engine Electronic Control System Based on Principal Component Analysis .....</b>	<b>602</b>
<i>Hanwu Li and Yuyang Zhao</i>	
<b>An JPEG Information Hiding Algorithm of Resisting FR .....</b>	<b>606</b>
<i>Ming-wei Tang, Ming-yu Fan, Guang-wei Wang and Wei Li</i>	
<b>Study on Water Pollution Diffusion by Artificial Immunity Optimization Algorithm.....</b>	<b>610</b>
<i>Li Yu and Jia-quan Wang</i>	
<b>Implementation of Stepless Shift Gears Control for the Telecontrol Target Vehicle System .....</b>	<b>614</b>
<i>Yonghong Hu, Lu Ding and Tong Yao</i>	
<b>Image Retrieval System Based on Color Feature of Granular Computing.....</b>	<b>617</b>
<i>Yuanyuan Ma, Chuan Wang and Jiucheng Xu</i>	
<b>Research on Transforming FA into RE Cycles-Broken Method .....</b>	<b>620</b>
<i>Yanzhong Hu and Shan Lin</i>	
<b>Study of Training Investing Behaviors between Migrant Workers and Enterprises Based on Evolutionary Game Theory .....</b>	<b>624</b>
<i>Jinxiu Yang and Yurong Zhu</i>	
<b>Design and Implementation of Multimedia Geographical Information System.....</b>	<b>628</b>
<i>Wang Fei Zhang, CaiRong Yue, Huamin Wang, GuoHong Wang and WeiNv Duan</i>	
<b>Research on Key Authentication Mechanisms of Wireless Local Area Network .....</b>	<b>632</b>
<i>Ying Xiong and Yu Cheng</i>	
<b>Facilitating use of LCC by Knowledge Management: An Empirical Case Study .....</b>	<b>636</b>
<i>Weiyi He and Yilin Yin</i>	
<b>The Communication Design of Simulation and Measurement for Excitation System based on USB2.0 .....</b>	<b>639</b>
<i>Qiong Cheng, Zhuo Peng and Hui Chen</i>	
<b>Discussing Construction Supply Chains in China .....</b>	<b>643</b>
<i>Xi Zhang, Min-Hua Zhao and Jun-qi Yu</i>	
<b>The Application of Intelligent Search Engine in Finding Supplier Resources Based on Agent .....</b>	<b>647</b>
<i>Yan Li, Lina Yu and Min Fu</i>	
<b>Research and Design of the Financial Information System with Uniform Application Supporting Platform .....</b>	<b>650</b>
<i>Lingling Du</i>	
<b>Research on Representation of Geographic Feature Based on Geo-ontology .....</b>	<b>654</b>
<i>Yongqi Huang, Gaoyan Deng, Xiaochun Wu and Zhui Zhao</i>	

<b>Functional Design on the Building Automation System of Subways Based on CIMS.....</b>	<b>658</b>
<i>Tongying Guo, Ting Han and Jiejia Li</i>	
<b>The Development of Fruit Supply Patterns in China : Sichuan as a Case .....</b>	<b>662</b>
<i>Wenru Zang and Xinhong Fu</i>	
<b>A Regional Capital Market Demands Study—A Survey of Financing Choices of Private Enterprises in Zhejiang Province .....</b>	<b>667</b>
<i>Yingjun Lou</i>	
<b>Research on GIS for Logistics Based on Geo-ontology.....</b>	<b>672</b>
<i>Yongqi Huang, Gaoyan Deng, Xiaochun Wu and Zhui Zhao</i>	
<b>Research on Key Technologies of Establishing the Port Hoisting Equipment Object Library in Flexsim .....</b>	<b>676</b>
<i>Mingwang Dong and Jianfu Yu</i>	
<b>Research on the Feature and Uncertainty based Spatio-temporal Data Model.....</b>	<b>679</b>
<i>Xiaochun Wu, Zhi Zhang, XiaoSong Hao and Zixuan Su</i>	
<b>Research on Capital Structure of Start-up Scientific and Technological Enterprises .....</b>	<b>683</b>
<i>Sun Ning</i>	
<b>Analysis and Research of the Negotiation Strategies based on Time Constraint .....</b>	<b>687</b>
<i>Xiaomin Ge and Shunqiang Dong</i>	
<b>The Application of XMPP Protocol in Development Management of 3D Animation Product.....</b>	<b>692</b>
<i>Jian Chen, Wenzhao Mo, Chaojian Fang and Zhifang Huang</i>	
<b>Field Emission Property Studies and Fabrication of Diode FED with Improved Cold-cathode Emitter .....</b>	<b>696</b>
<i>Yu-Kui Li, Wensheng Xing and Baoning Gao</i>	
<b>Research on Compensation of Land Expropriation based on Sustainable Livelihoods .....</b>	<b>699</b>
<i>Xiaoli Zhou, Wenkuan Chen and Ge He</i>	
<b>Knowledge Sharing Behavior in Organization: An Empirical Investigation .....</b>	<b>703</b>
<i>Lv Wang Wei</i>	
<b>The Construction and Application of a Comprehensive Evaluation Model to Commercial Banks Operation Performance .....</b>	<b>707</b>
<i>Chunxi Zhou</i>	
<b>The Implementation of High - Efficiency Internet Proxy Server .....</b>	<b>713</b>
<i>Guangbo Lei</i>	
<b>Analysis of Dominant Factors in Chinese Power Growth based on Fuzzy Association Rules .....</b>	<b>717</b>
<i>Zhiyong Li and Min Shen</i>	
<b>The Design and Implementation of a C8051F-based Embedded Image Acquisition System.....</b>	<b>721</b>
<i>Zhihong Xing, Di Li, Yujun Shan, Yuehong Jin and Jing Shao</i>	
<b>Static Analysis of the Box of Retarder Based on Finite Element .....</b>	<b>724</b>
<i>Yuyang Zhao and Hanwu Li</i>	
<b>Study on a Novel DC/DC Converter Based on Interleaved Parallel .....</b>	<b>728</b>
<i>Yibo Xin, Xin Wu and Huajing Fang</i>	
<b>The Water Quality Emergency Monitoring System based on GIS and RS for Urban Drinking Water Source.....</b>	<b>731</b>
<i>Fengyun Mu and Xiaochun Wu</i>	

## Volume II

<b>A New Level Set Method of Image Segmentation using Structure Tensor .....</b>	<b>735</b>
<i>Wei Zhang, Jian Zhang, Shengjun Cao and Li Wan</i>	
<b>Intelligent Detection of Convex Polygon based on Hough Transformation and Set Classifier .....</b>	<b>739</b>
<i>Xudong Yang, Peng Dai, Ping He and Pan Li</i>	
<b>Identification of Frequency-Hopping Spread Spectrum Signals using SVMs with Wavelet Kernels .....</b>	<b>743</b>
<i>Na Sun, Yajian Zhou and Yixian Yang</i>	
<b>Detection of Double-compression in MPEG-2 Videos .....</b>	<b>747</b>
<i>Yuting Su and Junyu Xu</i>	
<b>Optimization of S-Boxes by Evolving.....</b>	<b>751</b>
<i>Zhongping Qin, Qi Yang and Li Zhai</i>	
<b>Optimal Scheduling of Multi-Tank Multi-Source System using Genetic Algorithm .....</b>	<b>755</b>
<i>Hai En Fang, Jin Liang Gao and Yi Xing Yuan</i>	
<b>Semi-Active Suspension Control using the RNN Inverse System of MR Dampers .....</b>	<b>761</b>
<i>Hao Wang and Xiaomei Shi</i>	
<b>Real-time Traffic Classification based on Statistical and Payload Content Features .....</b>	<b>765</b>
<i>Fereshte Dehghani, Naser Movahhedinia, Mohamad Reza Khayambashi and Sahar Kianian</i>	
<b>Modeling Confinement Efficiency of FRP-Confined Concrete Column using Radial Basis Function Neural Network.....</b>	<b>769</b>
<i>Yi-bin Wu, Guo-fang Jin, Ting Ding and Dong Meng</i>	
<b>A Research about Independent Tasks Scheduling on Tree-Based Grid Computing Platforms .....</b>	<b>775</b>
<i>Jun Li, Chunlin Li and Qingqing Li</i>	
<b>Some Analysis of Fuzzy CAGO/SO CFAR Detector in Non-gaussian Background.....</b>	<b>779</b>
<i>Long Cai, Xiaochuan Ma, Shefeng Yan, Chengpeng Hao and Rongbo Wang</i>	
<b>Topology Awareness of Hierarchical Peer-to-Peer Network based on Network Coding with Feedback.....</b>	<b>783</b>
<i>Jun Yang, Bin Dai, Benxiong Huang and Chen Huang</i>	
<b>Image Registration by Curvature Shape Representation and Genetic Algorithm .....</b>	<b>787</b>
<i>Xiang Zhang and Chang-Jiang Zhang</i>	
<b>An Improved Artificial Bee Colony Algorithm.....</b>	<b>791</b>
<i>Fei Kang, Junjie Li, Haojin Li, Zhenyue Ma and Qing Xu</i>	
<b>A Study of Improving Apriori Algorithm.....</b>	<b>795</b>
<i>Libing Wu, Kui Gong, Yanxiang He, Xiaohua Ge and Jianqun Cui</i>	
<b>A Novel Differential Evolution Incorporated with Parallel Processing Mechanism.....</b>	<b>799</b>
<i>Dong Hyun Lim, Hoang N. Luong and Chang Wook Ahn</i>	
<b>Research into Self-Adaptive Hybrid Ant Colony Algorithm based on Flow Control.....</b>	<b>803</b>
<i>Jingyao Li, Shudong Sun, Yuan Huang and Ning Wang</i>	

<b>A Security Evaluation Method Based on STRIDE Model for Web Service .....</b>	<b>807</b>
<i>Li Jiang, Hao Chen and Fei Deng</i>	
<b>An Improved PrefixSpan-based Signatures Mining Algorithm with Offset Constraint .....</b>	<b>812</b>
<i>Guanzhou Lin, Yang Xin and Yixian Yang</i>	
<b>Overlapping Community Detection by Kernel-based Fuzzy Affinity Propagation .....</b>	<b>816</b>
<i>Fan Ding, Zhigang Luo, Jinlong Shi and Xiaoyong Fang</i>	
<b>A Joint Topical N-gram Language Model Based on LDA .....</b>	<b>820</b>
<i>Xiaojun Lin, Dan Li and Xihong Wu</i>	
<b>An Efficient Tagging SNP Selection Method Using Normalized Mutual Information and Joint Entropy .....</b>	<b>824</b>
<i>Han Liang and Hua Yan</i>	
<b>Artificial Emotion Model Based on Random Process .....</b>	<b>828</b>
<i>Guojiang Wang, Shaodong Teng and Kechang Fu</i>	
<b>Particle Swarm Optimization Algorithm Based on Predatory Search Strategy and Its Application .....</b>	<b>832</b>
<i>Shengli Song, Yong Gan, Li Kong and Jingjing Cheng</i>	
<b>Research on Partial Least-Squares Regression Model Based on Particle Swarm Optimization and Its Application .....</b>	<b>836</b>
<i>Tianxiao Li, Qiang Fu and Fanxiang Meng</i>	
<b>An Improved Ant Colony Algorithm for Path Optimization in Emergency Rescue .....</b>	<b>840</b>
<i>Bao-Hua Jin and Lei Zhang</i>	
<b>A Novel Differential Evolution with Cooperative Co-Evolution for Global Optimization.....</b>	<b>845</b>
<i>Wei-Ping Lee and Wan-Jou Chien</i>	
<b>The Near-Optimal Policies for the Age-Reduced Preventive Maintenance Model in a Finite Time Span using Simulation Method.....</b>	<b>849</b>
<i>Chun-Yuan Cheng, Chun-Chin Hsu, Te-Hsiu Sun and Shu-Te Fang</i>	
<b>Research on Vehicle Electronic Stability Control Method .....</b>	<b>853</b>
<i>Chuanxue Song, Shengyi Xuan, Jianhua Li and Liqiang Jin</i>	
<b>Potential Grads Model based Quasi-dynamic Method for Escape Route Distribution .....</b>	<b>858</b>
<i>Ji-xin Wang, Liang-an Jin, Wei Chi, Wei-zhuo Sun and Qing-yu Wang</i>	
<b>Improved Flooding-based Resource Discovery .....</b>	<b>862</b>
<i>Yadong Gong, Jiye Hu, Zhiliang Dong, Shengnian Wang and Shaojun Hu</i>	
<b>One Segmentation Algorithm of Multi-Target Image based on Improved PCNN.....</b>	<b>866</b>
<i>Yin-Mao Song, Xiao-Hui Zhu and Guo-Le Liu</i>	
<b>Expressway OD Matrix Estimation Based on the Fuzzy Optimization Grey Prediction Model .....</b>	<b>870</b>
<i>Jianjun Wang, Gang Wei, Fashun Yang and Qianqian He</i>	
<b>Hybrid Taguchi-Particle Swarm Optimization based Optimal Reactive Power Flow .....</b>	<b>875</b>
<i>Gonggui Chen, Hangtian Lei and Haibing Fang</i>	
<b>An Uncertainty Oriented Grade Estimation Method Based on Fuzzy Wavelet Neural Network.....</b>	<b>879</b>
<i>Li-Hong Li, Xiang-Yang Xu, Yan-Fang Liu and Xiao-Li Li</i>	
<b>Research on Uncertainty Measurement for Covering Rough-Vague Set .....</b>	<b>883</b>
<i>Jiucheng Xu, Qianqian Zhang and Yuwen Hu</i>	

<b>A New Shaped Fiber Classification Algorithm based on SVM .....</b>	<b>887</b>
<i>Xiaotao Xu, Li Yao and Yan Wan</i>	
<b>Skeletonization by Multiple Scan Order .....</b>	<b>892</b>
<i>Yunlong Zhong, Yan Wan and Li Yao</i>	
<b>Optimal Predictive Maintenance Policy for Multi-state Deteriorating System under Periodic Inspections .....</b>	<b>897</b>
<i>Ning Wang, Shudong Sun, Shubin Si and Zhiqiang Cai</i>	
<b>A Study on the Cost of Two-dimensional Product Warranty based on Imperfect Repair .....</b>	<b>901</b>
<i>Jian Yu and Xiangzhi Chen</i>	
<b>A Subband Feedback Controlled Generalized Sidelobe Canceller in Frequency Domain with Multi-Channel Postfilter.....</b>	<b>905</b>
<i>Kai Li, Qiang Fu and Yonghong Yan</i>	
<b>A Coupling Model for Dynamic and Tribological Behaviors of Piston System in IC Engine .....</b>	<b>909</b>
<i>Xiaorong Zhou, Ganwei Cai, Zhongqing Chen and Zhuan Zhang</i>	
<b>Study and Application of Robust Control for Nonlinear Uncertain Dependent Time-delay Systems .....</b>	<b>914</b>
<i>Xingjian Fu, Xiaohe Liu, Jie Ma and Yingchun Li</i>	
<b>A New Multi-vendor Logistics and Distribution Optimized Algorithm based on Ant Colony System .....</b>	<b>918</b>
<i>Ruixue Tang and Yongbin Qin</i>	
<b>A Balanced Rank Algorithm based on Page Rank and Page Belief Recommendation .....</b>	<b>921</b>
<i>Yongbin Qin and Daoyun Xu</i>	
<b>A Novel Approach for Estimating Position Ratio of International Portfolio Arbitrage .....</b>	<b>925</b>
<i>Xin Zhan and Weizhong Chen</i>	
<b>A Method for Spam Fax Detection and Classification based on Clustering .....</b>	<b>929</b>
<i>Qing Li, Hong-tao Yu and Peng Li</i>	
<b>Study on Impulse Magnetic Field of Magnetostrictive Position Sensor.....</b>	<b>933</b>
<i>Zheng Wang, Xiaoming Chang and Hiroyuki Wakiwaka</i>	
<b>Status Recognition for Electrical Parameters of ESPCP based on Biomimetic Pattern Recognition .....</b>	<b>937</b>
<i>Hai-tao Shi, Yun-hua Yu and Qian-qian Kong</i>	
<b>Video Image Retrieval Based on Improved SIFT Features .....</b>	<b>940</b>
<i>Hui Gao, Yuncheng Du, Yuqin Li and Shuicai Shi</i>	
<b>Theoretical Analysis of Circular-Scanning SAR based on Resolution and Imaging Efficiency Comparison .....</b>	<b>944</b>
<i>Cheng-jin An, Xia He and Zeng-ping Chen</i>	
<b>Study on Scheduling Model of Emergency Materials Distribution after Natural Disaster .....</b>	<b>948</b>
<i>Yong Gu</i>	
<b>A Improved Evolutionary Programming for Global Optimization .....</b>	<b>952</b>
<i>Gonggui Chen, Hangtian Lei and Haibing Fang</i>	
<b>Formalizing Business Process Execution Language based on Petri Nets.....</b>	<b>956</b>
<i>Wen Zhao, Yu Huang, Chongyi Yuan and Lifu Wang</i>	

<b>On-line NNAC for Two-Wheeled Self-Balancing Robot based on Feedback-Error-Learning.....</b>	<b>964</b>
<i>Xiaogang Ruan and Jing Chen</i>	
<b>Influence of In-wheel Motor Structure about the Contact and Comfort for Electric Vehicle .....</b>	<b>968</b>
<i>Li-Qiang Jin, Chuan-Xue Song and Qing-Nian Wang</i>	
<b>Fuzzy Map Matching for the Atlas SLAM of Mobile Robots.....</b>	<b>973</b>
<i>Xuefeng Dai, Zhifeng Yao and Xiaomei Ning</i>	
<b>Dynamics Analysis and Structural Optimization Design of a Three-stage Gearing .....</b>	<b>977</b>
<i>Xin Tan and Dingfang Chen</i>	
<b>Predicting Call Center Service Grade with Improved Neural Network Algorithm .....</b>	<b>982</b>
<i>Jing Lv and Min Guo</i>	
<b>Immune Agent-based Neural Networks Assembly for Soft-sensor .....</b>	<b>986</b>
<i>Xuhua Shi and Feng Qian</i>	
<b>Behavior-oriented Software Requirements Model and Logical Properties .....</b>	<b>990</b>
<i>Huai-Guang Wu, Li Wan, Guo-qing Wu, Xiang Ling and Zheng-Ping Liang</i>	
<b>Research on Low-rate Denial-of-Service Attacks against XCP.....</b>	<b>995</b>
<i>Libing Wu, Ao Xu, Yanxiang He, Kui Gong and Xiaohua Ge</i>	
<b>Research on Evaluation Method of Equipment Fault in Electric Power Communication Network .....</b>	<b>999</b>
<i>Zhendong Zhao, Yong Gao, Yadong Zhang and Xuedong Xiao</i>	
<b>Shift Dependency Effects on Multiresolution-Based Image Fusion Performance .....</b>	<b>1003</b>
<i>Yu-Feng Li and Xiao-Yun Feng</i>	
<b>Safety Evaluation in Power Supply Enterprises Using the ELECTRE III and TOPSIS Methods .....</b>	<b>1007</b>
<i>Kewei Zhang and Quansheng Shi</i>	
<b>A Method of Flood Forecasting of Chaotic Radial Basis Function Neural Network .....</b>	<b>1011</b>
<i>Jian-Cang Xie, Tian-Ping Wang, Jian-Long Zhang and Yu Shen</i>	
<b>Performance Analysis of OSAP-CFAR Detector in K Distribution Background.....</b>	<b>1016</b>
<i>Chengpeng Hao and Long Cai</i>	
<b>A Method of 2-D DOA Estimation Based on Modified MUSIC Algorithm .....</b>	<b>1020</b>
<i>Xinquan Jiao and Shujing Su</i>	
<b>The Research on Assembly Algorithm Supporting QoS in OBS Networks.....</b>	<b>1024</b>
<i>Yuanli Wang, Daizhan Liu and Di Luo</i>	
<b>FPGA-based for Implementation of Multi-Serials to Ethernet Gateway.....</b>	<b>1028</b>
<i>Tong Yao, Yonghong Hu and Lu Ding</i>	
<b>Analysis and Research of Control Strategy and Signal Detection Based on UPQC .....</b>	<b>1032</b>
<i>Fu-Zhuan Wu and Su-Ping Pei</i>	
<b>Novel Method for Single-Trial Estimation of Event-Related Potential .....</b>	<b>1036</b>
<i>MeiLei Lv, Yonghua Zhu and Shiming Yu</i>	
<b>Study on Speech Recognition of Greeting Based on Biomimetic Pattern Recognition .....</b>	<b>1039</b>
<i>Hong Ye, Youzheng Zhang, Jianwei Shen</i>	
<b>1/3 Subharmonic Resonance of Current-carrying Conductor Subjected to Harmonic Excitation.....</b>	<b>1043</b>
<i>Xiaoyan Xi and Zhian Yang</i>	

<b>Hydraulic Transmission Electromagnetic Energy-regenerative Active Suspension and Its Working Principle</b> .....	<b>1047</b>
<i>Lin Xu and Xuexun Guo</i>	
<b>Study on Expendable Current Profiler Based on Electromagnetic</b> .....	<b>1051</b>
<i>Libin Du, Guoxing Ren, Haijing He and Junle Qu</i>	
<b>The Research on the Matching Design of the Ship-engine-propeller based on Multi-objective Particle Swarm Optimization</b> .....	<b>1055</b>
<i>Aihua Liu and Shidong Fan</i>	
<b>Dual-model Detection Method of Warship Target in the Sea-Sky Background</b> .....	<b>1059</b>
<i>Chunliang Jiang, Hanhong Jiang, Chaoliang Zhang and Song Zhao</i>	
<b>A Novel Huffman Tree Scheme for Group Rekeying</b> .....	<b>1063</b>
<i>Hai-tao Xie and Chun-zhi Wang</i>	
<b>The Method for Data Reduction based on Evaluation of Attribute Significance</b> .....	<b>1067</b>
<i>Chaobo He and Qimai Chen</i>	
<b>Research on Fuzzy Smith Control Method for Time Delay Systems</b> .....	<b>1071</b>
<i>Wen-Bo Liu and Meng-Xiao Wang</i>	
<b>Research on Ship Spare Parts Inventory based on Selective Maintenance</b> .....	<b>1075</b>
<i>Bin Zhou, Shidong Fan and Da Li</i>	
<b>Spontaneous Interoperation of Information Appliances in a Smart Meeting Room</b> .....	<b>1080</b>
<i>Tangjian Deng, Ling Feng, Yue Suo and Yu Chen</i>	
<b>Study of Traffic Flow Prediction based on BP Neural Network</b> .....	<b>1084</b>
<i>Fengying Cui</i>	
<b>Research of Text Classification Model Based on Latent Semantic Analysis and Improved HS-SVM</b> .....	<b>1088</b>
<i>Yu-feng Zhang and Chao He</i>	
<b>Research on Vessel Transit Capacity of Cross Area Channel Based on Single Vacation M/G/1 Model</b> .....	<b>1093</b>
<i>Yadong Yang, Yong Ma and Chuanbo Liu</i>	
<b>A Study on Object-oriented Classification of Land Use/Land Cover of Remote Sensing Image</b> .....	<b>1097</b>
<i>Cairong Yue and Rong Zhang</i>	
<b>An Improved Ant Colony Algorithm and Its' Application in Exam-Arrangement</b> .....	<b>1101</b>
<i>Le Xiao and ZhouFang Li</i>	
<b>Study on Traffic Capacity in the Expressway On-Ramp Junction under Circumstance of Traffic Accident</b> .....	<b>1105</b>
<i>Jianjun Wang, Qianqian He, Liping Qiu and Fashun Yang</i>	
<b>Study on Neural Network Self-tuning PID Control for Temperature of Active Solar House Heating System</b> .....	<b>1109</b>
<i>Jun-qi Yu, Tao Ai, Yan-feng Liu and Jiang Zhou</i>	
<b>Study on Applying Fuzzy Inference to Single Factor Prediction Method for Precipitation Irrigation Requirement Forecast</b> .....	<b>1113</b>
<i>Qingqiu Chen, Jing Li and Yexin Gao</i>	



<b>Online Defects Inspection Method for Velcro based on Image Processing.....</b>	<b>1118</b>
<i>Guo-Dong Sun, Da-Xing Zhao and Qing Lin</i>	
<b>Study on the Method for Improving the Consistency of Linguistic Judgment Matrix.....</b>	<b>1122</b>
<i>Yan Chen, Zhiping Fan, Jing Liu and Xia Chen</i>	
<b>The Evaluation Method Research for Product Performance Based on Fuzzy Matter-element and FAHP .....</b>	<b>1126</b>
<i>Genbao Zhang, Jihong Pang, Guohua Chen and Shuhui Zhang</i>	
<b>Researching Of Two-Wheeled Self-Balancing Robot Base On LQR Combined with PID .....</b>	<b>1130</b>
<i>Liang Sun and Jiafei Gan</i>	
<b>Improved Macroblock-Level Rate Control Algorithm with Visual Properties .....</b>	<b>1135</b>
<i>Qingxin Meng and Qinglei Meng</i>	
<b>Extraction and Diagnosis of Rotor Fault Characteristic Based on Signal Processing.....</b>	<b>1140</b>
<i>Li Wang, Xuan Wang and Da Wu</i>	
<b>Development of Morphogenesis Model-Based Dynamic Growth System in Greenhouse Muskmelon ...</b>	<b>1144</b>
<i>Liyang Chang and Danfeng Huang</i>	
<b>New Delay-dependent Robust Stability Criteria for Uncertain Systems with Interval Time-varying Delay .....</b>	<b>1149</b>
<i>Zhongsheng Wang and Weifeng Li</i>	
<b>Optimal Pricing Strategies in a Dual-Channel Supply Chain with Online Exchange .....</b>	<b>1152</b>
<i>Wei Xing, Chengmin Qin and Ling Jiao</i>	
<b>A Mechanism of Data Organization and Dynamic Scheduling for 3D urban Landscape .....</b>	<b>1156</b>
<i>Fang Wan, Fazhi He and Fei Deng</i>	
<b>Teaching Reform Based on the Combination of Computer and Curriculum Group .....</b>	<b>1160</b>
<i>Chaoying Liu, Zheyang Song and Xueling Song</i>	
<b>An Attribute Reduction Algorithm of the Information System Based on DNA-Sticker Model .....</b>	<b>1164</b>
<i>Shu-xin Tian, Xiao-Ping Wu and Hong-Xia Wang</i>	
<b>Fundamental of Internet Cultural Evolution.....</b>	<b>1167</b>
<i>Li Shao and Ming-sheng He</i>	
<b>How to Display the Data from Database by ListView on Android .....</b>	<b>1171</b>
<i>Fan Jiang and Shaoping Ku</i>	
<b>Pesticide Training Effect in Safe Use about Chinese Farmers .....</b>	<b>1175</b>
<i>Wenting Song, Xinhong Fu, Deping Xiong and Yan Wang</i>	
<b>Method for Diagnosis Test Reliability Assessment Based on Bayesian Network .....</b>	<b>1179</b>
<i>Hong-Xia Wang, Xiao-Hui Ye and Jia-Liang Pan</i>	
<b>An Optimization Algorithm for UBIFS Wear-leveling .....</b>	<b>1183</b>
<i>Xiaoru Cai and Shi Shao</i>	
<b>Development of WI-FI Based Telecardiology Monitoring System.....</b>	<b>1187</b>
<i>Ken Cai and Xiaoying Liang</i>	

<b>Data Mining for the Optimization in Manufacturing Process .....</b>	<b>1191</b>
<i>Tao He</i>	
<b>Parametric Pattern-making Modeling based on Constraint and Graph.....</b>	<b>1195</b>
<i>Yi Xiu, Zhen-Kai Wan and Wen-li Cao</i>	
<b>A Revision Approach based on Assignment Equivalence Classes.....</b>	<b>1199</b>
<i>Dongchen Jiang, Yihua Lou and Yi Jin</i>	
<b>Study of Semantic-based Ontology Mapping Technology .....</b>	<b>1203</b>
<i>Wen-jie Li and Qiu-xiang Xia</i>	
<b>Research on the Promotion of Rule Engine Performance.....</b>	<b>1207</b>
<i>Gang Zhang, Wenwei Shan and Feng Wang</i>	
<b>Research and Design of Ultrasonic Open Channel Flowmeter Based on AT89S52 .....</b>	<b>1210</b>
<i>Yan-tao Zhang and Shu-qin Li</i>	
<b>Research on Linear Network Coding Mechanism in High Quality ALM System .....</b>	<b>1214</b>
<i>Lian He, Chanle Wu, Jun Yue, Shi Cheng, Yibo Chen, Ming Xie, Gang Ye and Ying Peng</i>	
<b>Signature and Encryption on Parts of SOAP Message Based on Rampart .....</b>	<b>1218</b>
<i>Tao Xu and Chunxiao Yi</i>	
<b>Forecasting Movie-going Behavior Based on Online Pre-release WOM and Opening Strength.....</b>	<b>1224</b>
<i>Feng Wang, Rong Cai and Minxue Huang</i>	
<b>A New Kind of Cache Coherence Protocol with SC-Cache for Multiprocessor .....</b>	<b>1228</b>
<i>Jing-Mei Li, Wen-Jia Liu and Ping Jiao</i>	
<b>A Fabric Defect Detection System Based on Image Recognition.....</b>	<b>1233</b>
<i>Jingmiao Zhang and Xianzun Meng</i>	
<b>Dijkstra Algorithm Implementing Services Composing Way Selection .....</b>	<b>1237</b>
<i>Yuqiang Li and Qianxing Xiong</i>	
<b>Urban Ecological Security Assessment in Shenzhen City Based on Set Pair Analysis and Entropy Method: A Case Study on Shenzhen City.....</b>	<b>1241</b>
<i>Xiaoyan Tao</i>	
<b>Application of RTK Intelligent Positioning System in Project of High Voltage Transmission Line.....</b>	<b>1245</b>
<i>Xiao-Jing Wang, Bao-Xi He and Qian Li Ma</i>	
<b>The AML Approach to Modeling Dynamic Organization of Combat Team .....</b>	<b>1249</b>
<i>Jin-Xing Liu, Shao-Dong Chen, Dong-Mei Zhao and Jin-Song Gao</i>	
<b>Learning and Self-instruction Expert System for Yoga .....</b>	<b>1253</b>
<i>Wei Wu, Wensheng Yin and Feifei Guo</i>	
<b>Harmonic Suppression in The Power System of Electric Drilling Rig .....</b>	<b>1257</b>
<i>Qi-Zhi Zhang, Yu-Yao He, Lin Li and Hong-Liang Yan</i>	
<b>Study on Power Energy Consumption Model for Large-scale Public Building.....</b>	<b>1261</b>
<i>Yuan Ma, Jun-qi Yu, Chuang-ye Yang and Lei Wang</i>	
<b>Relationship Between Volatility of Shibor Rates and IPOs of Big and Medium Sized Enterprises - An Empirical Study Using Chinese Data .....</b>	<b>1265</b>
<i>Lifeng Dong and Xiutian Zheng</i>	

<b>Study on Distribution Center Locating Using the Combination Method of CGM and DP.....</b>	<b>1269</b>
<i>Jianhua Yang and Mingyi Shao</i>	
<b>Identifying Harmful Web Pages in Laboratory Information Security Management .....</b>	<b>1274</b>
<i>Jinghan Zhu, Bin Xu, Bo Jiang and Weigang Chen</i>	
<b>Nonhyperbolic Reflection Traveltimes and Moveouts in Anisotropic VTI Media.....</b>	<b>1278</b>
<i>Cun Yang, Junhua Zhang, Xianjun Meng, Lixin Wang and Xiaowei Lv</i>	
<b>A Roaming System of the Residential Building’s Virtual Internal Scene based on VRML .....</b>	<b>1282</b>
<i>Li Zhang and Guang Zheng</i>	
<b>Generalized Fuzzy Ideals of Pseudo MV Algebras .....</b>	<b>1286</b>
<i>Jianming Zhan and Young Bae Jun</i>	
<b>A Survey on Actionable Knowledge Discovery Applications.....</b>	<b>1290</b>
<i>Jiying Li and Jianwu Dang</i>	
<b>An Agent-based Architecture for E-learning System .....</b>	<b>1293</b>
<i>Chuan Zhang, Ruoman Zhao and Zonggang Zhou</i>	
<b>Control Method of Dynamic Inversion with Neural Network Used for Multi-variable Nonlinear Flight Control System.....</b>	<b>1297</b>
<i>Kechang Qian and Jian Li</i>	
<b>DEM and ArcGIS-based Extraction of Eco-hydrological Characteristics in Ya’an, China.....</b>	<b>1301</b>
<i>Fu-Quan Ni, Yao-Sheng Tan, Li-Ping Xu and Cheng-Wei Fu</i>	
<b>Models Design of DSS for Faculty Management .....</b>	<b>1306</b>
<i>Honglin Ma and Lei Yan</i>	
<b>Solving Generalized Eigen-value by Using Orthogonal Projection LANCZOS Algorithm .....</b>	<b>1310</b>
<i>Minyi Ke and Huazhong Jin</i>	
<b>Automated Sample Data Selecting From DAS based on Maximum Entropy Theory .....</b>	<b>1313</b>
<i>Yue-Long Wang, Ai-Qing Huo and De-Min Xu</i>	
<b>A Semantic- and Attribute-Based Framework for Web Services Access Control.....</b>	<b>1317</b>
<i>Hai-Bo Shen</i>	
<b>Design of a Novel Pressure Testing System for Seat Gas Spring.....</b>	<b>1321</b>
<i>Baoming Shen</i>	
<b>Color Image Sementation Based on Multi-Valued Eigenfunction .....</b>	<b>1325</b>
<i>Jian Li Zhang and Shu Qin Li</i>	
<b>Research on Data Persistence Layer Based on Hibernate Framework .....</b>	<b>1329</b>
<i>Qinglin Wu, Yanzhong Hu and Yan Wang</i>	
<b>Feed Formula Optimization Method Based on Multi-Objective Particle Swarm Optimization Algorithm .....</b>	<b>1333</b>
<i>Ji-Xin Zhang and Gao-Ping Wang</i>	
<b>Research on Image Recognition Techniques Applied to Intelligent Monitoring System Based on Ant Colony Algorithm.....</b>	<b>1336</b>
<i>Yanlin Zhang</i>	

<b>Three Dimensional Real-time Method of Ships Dynamic Monitoring based on ArcGIS Platform .....</b>	<b>1340</b>
<i>Shengwei Xing, Yingjun Zhang and Yuankui Li</i>	
<b>Research and Implementation of Instant Collaborative Development for 3D Animation Production.....</b>	<b>1344</b>
<i>Wei Xiong, Hong Lu, Chaojian Fang and Zhengjun Wang</i>	
<b>Floating Point Representation Genetic Algorithm based on Wavelet Decomposition .....</b>	<b>1348</b>
<i>Mingyi Cui and Wei Cui</i>	
<b>The Distribution of Quasi-truth Degree in 4-valued Lukasiewicz Logic System (I).....</b>	<b>1352</b>
<i>Weibing Zuo</i>	
<b>Probability Based IDS Towards Secure WMN .....</b>	<b>1356</b>
<i>Jinsong Zhou, Zhuo Chen and Wei Jiang</i>	
<b>Design and Implementation of Security Management Architecture of Special SoC.....</b>	<b>1360</b>
<i>Luguo Zhang, Zheng Li, Ruijiao Wang and Shengjun Wen</i>	
<b>Based on Passivit Backstepping Control of Robotic Systems .....</b>	<b>1365</b>
<i>ChunDi Jiang and HaiLun Wang</i>	
<b>Analysis of Water Resources Planning Based on Particle Swarm Optimization Algorithm .....</b>	<b>1368</b>
<i>Li Yu and Jia-Quan Wang</i>	
<b>A Finite Element Analysis on Unsteady Temperature Field of Engine Eddy Current Retarder .....</b>	<b>1371</b>
<i>Feng-yan Yi, Ming-jin Yu, Xu-yun Qiu and Ya-feng Mao</i>	
<b>Corrosion Predication in Refeinery Based on Not Equal Time Interval Grey System Model .....</b>	<b>1375</b>
<i>Zhengfang Wang</i>	
<b>Application of Edge Testing Operator in Vehicle Logo Recognition .....</b>	<b>1379</b>
<i>Yuanli Wang, Na Li and Ying Wu</i>	
<b>The Implementation of Multiple Virtual FEs and Their Backup in the ForCES Router .....</b>	<b>1382</b>
<i>Di Zhong, Weiming Wang and Chuanhuang Li</i>	
<b>An Intergarted Trasnferring Mechanism of Supply Chain for Specific Demand from Strategy to Operation .....</b>	<b>1386</b>
<i>Zheng Zhaoxia and Xia De</i>	
<b>Private Controlling Ownership, Tunneling and Corporate Performance in China .....</b>	<b>1390</b>
<i>Guoping Li</i>	
<b>Chaos in a Fractional-order Nonlinear Financial System .....</b>	<b>1395</b>
<i>Zheng-Fu Cheng and Dong-Ping Shi</i>	
<b>Program of Route Optimization for Surface Mount .....</b>	<b>1398</b>
<i>Jianguo Jiang, Chunyan Liu, Kun Zhang, Zhongxu Wang, Zhiwen Tan and Xiaoze Chen</i>	
<b>The Pilot Study on Prediction Method by Artificial Neural Network for Carrying Capacity of Coastal Zone .....</b>	<b>1402</b>
<i>Mingchang Li, Bin Zhou, Shuxiu Liang and Zhaochen Sun</i>	
<b>Intuitionistic Fuzzy Soft Set .....</b>	<b>1405</b>
<i>Yong-Jie Xu, Yong-Kan Sun and Deng-Feng Li</i>	
<b>Factors Influencing Management Teaching Effect .....</b>	<b>1409</b>
<i>Ying Li, Yukun Cao and Qian Wang</i>	

<b>Least Sampling Density from High Order Sampling.....</b>	<b>1414</b>
<i>Hongbin Yu</i>	
<b>Chaotic Synchronization of Modified Wien-bridge Circuit via Linear Feedback Control.....</b>	<b>1418</b>
<i>Ya-Fei Zhou and Dong Zhang</i>	
<b>Analysis of Hitting Force in the Water Cooling Process of High-speed Wire Rod .....</b>	<b>1421</b>
<i>Jiangang Yi, Baosheng Yin and Juan Sheng</i>	
<b>Overall Scheme Design on the River Navigation Management Information .....</b>	<b>1425</b>
<i>Lina Mao, Guiliang Zhou, Yanru Zhu and Dingxin Wu</i>	
<b>Research and Improvement of Apriori Algorithm for Association Rules .....</b>	<b>1429</b>
<i>Yu Cheng and Ying Xiong</i>	
<b>Construction of “Leading” And “Learning” Model of Plant Protection Major under the Higher Education Popularity.....</b>	<b>1433</b>
<i>Ming-Wang Shi and Yang-Fan Gao</i>	
<b>Analyses of Plant Protection Major job-oriented Teaching Reform Project .....</b>	<b>1437</b>
<i>Yang-Fan Gao, Ming-Wang Shi and Yue-Tao Li</i>	
<b>A Study of Power Project Investment Decision Making Based on AHP and Grey Relevancy Degree Method .....</b>	<b>1441</b>
<i>Qiaozhi Zhao</i>	
<b>ComGIS-based Water Resources Management Decision Support System.....</b>	<b>1445</b>
<i>Fu-Quan Ni, Ming-Cheng Cai, Li-Ping Xu and Cheng-Wei Fu</i>	
<b>A Case Study on the Application of DSS in Wholesaling Inventory Management .....</b>	<b>1450</b>
<i>Min He and Bin Du</i>	
<b>Research on IPACT Algorithm .....</b>	<b>1455</b>
<i>Yuanli Wang, Bibo Luo and Di Luo</i>	
<b>Differential Recurrent Neural Network based Model Predictive Control for the Control of Mav Attitude.....</b>	<b>1458</b>
<i>Xiangjian Chen, Zhijun Xu, Di Li and Kehui Long</i>	
<b>Analysis on Cutter Machine Driving Technology Process and Control Strategies.....</b>	<b>1461</b>
<i>Pengfei Hao and Sue Wang</i>	
<b>Exposure Risk Monitoring Systems for Crowd Massing Shopping Areas .....</b>	<b>1465</b>
<i>Mingsong Shen, Jianfeng Li and Wei Wang</i>	
<b>Real-time Human Behavior Investigation and Monitoring System .....</b>	<b>1469</b>
<i>Wei Wang and Jianfeng Li</i>	
<b>Cooling Finite Element Analysis of Engine Eddy Current Retarder .....</b>	<b>1472</b>
<i>Xu-yun Qiu, Ming-jin Yu and Feng-yan Yi</i>	
<b>A Novel Bacterial Foraging Optimizer with Linear Decreasing Chemotaxis Step .....</b>	<b>1476</b>
<i>Ben Niu, Yan Fan, Pei Zhao, Bing Xue, Li Li and Yujuan Chai</i>	

## **Author Index**