

2008 3rd International Conference on Innovative Computing, Information and Control

(ICICIC 2008)

**Dalian, China
18 – 20 June 2008**

Pages 1-618



**IEEE Catalog Number: CFP0866A-PRT
ISBN: 978-1-4244-3197-7**

TABLE OF CONTENTS

LiNeS: Virtual Network Environment for Network Administrator Education	1
<i>Yuichiro Tateiwa, Kosuke Kurachi, Jing Zhang, Takami Yasuda and Shigeki Yokoi</i>	
Astronomy Teaching Resources Management System for Curators Using Information Technology	5
<i>Mayu Kondo, Takami Yasuda, Shigeki Yokoi, Masahiro Ura, Mamoru Endo, Masato Goto, Kumiko Iwazaki, Katsuhiko Mouri and Manabu Noda</i>	
Design of a Web Community for Female Researchers	9
<i>Wei Zhou, Jien Kato, Takami Yasuda, Shigeki Yokoi and Hiroko Tsukamura</i>	
Sketch RR-Tree: A Spatio-Temporal Aggregation Index for Network-Constrained Moving Objects	13
<i>Jun Feng, Chunyan Lu, Ying Wang and Toyohide Watanabe</i>	
Primary Content Block Detection from Web Page Clusters through Entropy and Semantic Distance	17
<i>Jun Meng, Qiu-Shui Liu and Ke-Qiu Li</i>	
Educational Application and Evaluation of Medical Dialogue Visualization Method	21
<i>Yuichi Koyama, Yasushi Hirano, Shoji Kajita, Kenji Mase, Kimiko Katsuyama, Tomio Suzuki and Kazunobu Yamauchi</i>	
Frame Registration of In-Vehicle Normal Camera with Omni-Directional Camera for Self-Position Estimation	25
<i>Hiroyuki Uchiyama, Tomokazu Takahashi, Ichiro Ide and Hiroshi Murase</i>	
Authentication Protocols for Mobile IP Networks	29
<i>Jie Li, Hui Jing, Guojun Wang and Kun Yang</i>	
The Research of Real-Time Database Technique Used in Power System Dispatcher Training Simulator	33
<i>Jiaomin Liu, Yi Sun and Haibo Li</i>	
Research on Histogram Algorithm for Low Voltage Electrical Apparatus Switching Arc's Image Enhancement	37
<i>Zhenzhou Wang, Jiaomin Liu, Peng Liu and Junying Meng</i>	
The Model and Simulation of Enterprise Competition Research Based on CAS	41
<i>Jinghong Wang, Jiaomin Liu, Li Li and Dongfang Yang</i>	
The Design of Long-Distance Steam Turbine Generator Rotor Windings Inter-Turn Short Circuit Fault Diagnose System Based on VB.Net	45
<i>Jiaomin Liu, Yi Sun and Haibo Li</i>	
Integrated Local/Global Traffic Network Analysis in a GIS-Based System	49
<i>Jin Gang Bao and Jiang Qian Ying</i>	
Ubiquitous Experience Media for Computer-Mediated Communication	53
<i>Kenji Mase</i>	
Abrupt Steering Detection Based on the Road Construction Ordinance and Vehicle Acceleration Captured with Drive Recorders	55
<i>Hideomi Amata, Chiyomi Miyajima, Akira Ozaki, Takanori Nishino, Norihide Kitaoka and Kazuya Takeda</i>	
Generating Bird's Eye View Images Depending on Vehicle Positions by View Interpolation	59
<i>Jien Kato and Noritaka Sekiyama</i>	

An Information Hiding Scheme Using Sudoku	63
<i>Chin-Chen Chang, Yung-Chen Chou and The Duc Kieu</i>	
Feature-Based Image Watermarking Resisting Geometric Attacks.....	68
<i>Lei-Da Li, Bao-Long Guo and Jeng-Shyang Pan</i>	
An Adaptive Implementation for DCT-Based Robust Watermarking with Genetic Algorithm.....	72
<i>Chi-Ming Chu, Hsiang-Cheh Huang and Jeng-Shyang Pan</i>	
DCT-Based Watermarking By Quotient-Embedding Algorithm	76
<i>Ching-Yu Yang, Wu-Chih Hu and Jen-Yuan Lai</i>	
Gray-Image Encryption Using Multiplex Encoding Method	80
<i>Kuang Tsan Lin</i>	
A Novel Robust Watermarking Algorithm Based on Error Correction Coding.....	84
<i>Bing Qi, Liangrui Tang and Jing Li</i>	
A Blind Watermark Algorithm in Mixed Transform Domain Based on Chaotic Sequence Locating.....	88
<i>Jing Liu, Fei Gao and Hui Zhang</i>	
Reversible Data Hiding Scheme for Color Image Protection Based on Palette Color Replacement	92
<i>Jia-Hong Lee and Mei-Yi Wu</i>	
Data Hiding in Image Size Invariant Visual Cryptography	96
<i>Hao Luo and Faxin Yu</i>	
An Error Resilient Technique Using Reversible Data Embedding in H.264/AVC.....	100
<i>Shinfeng D. Lin, Hsiang-Cheng Meng, Chih-Yao Chuang and Jhih-Yu Huang</i>	
High Capacity Information Hiding Using Interpolation Technique.....	104
<i>Chyuan-Huei Thomas Yang and Yen-Po Chiu</i>	
An Effective Data Embedding for Error Concealment	108
<i>Shinfeng D. Lin and Cheng-Wei Tsai</i>	
A Modified Particle Swarm Optimization Based on a Chinese Archaism	112
<i>Yongfang Chu, Zhihua Cui, Jianchao Zeng and Jing Liu</i>	
A Particle Swarm Optimization Based on Improved Multi-Swarm and Analysis	116
<i>Minghua Li, Quan Liu, Wangshu Yao and Ming Chen</i>	
Improved Particle Swarm Optimization and Its Application	120
<i>Dongyun Wang and Lipin Liu</i>	
Practical Stability Analysis of Stochastic Swarms.....	125
<i>Fuchen Pan, Xue-Bo Chen and Lin Li</i>	
Affine Transformation for Swarm Formations by Generalized Ant Colony Optimization	129
<i>Xue-Bo Chen, Ying Zhang and Fuchen Pan</i>	
A Thermodynamical Selection Rule for the Particle Swarm Optimization	133
<i>Yi Jiang, Ling Wang and Li Chen</i>	
A Bee Swarm Genetic Algorithm for the Optimization of DNA Encoding.....	137
<i>Chunxia Xu, Qiang Zhang, Jinsong Li and Xiuyan Zhao</i>	
A Flexible Tracking PSO Algorithm for Non-stationary Optimal Solutions.....	141
<i>Yan-chao Yin, Cheng Guo, Cheng-feng Yin</i>	
PSO-BPNN-Based Prediction of Network Security Situation	145
<i>Zongming Lin, Guolong Chen, Wenzhong Guo and Yanhua Liu</i>	

Invariant Topology Snakes Driven by Particle Swarm Optimizer	150
<i>Delu Zeng and Zhiheng Zhou</i>	
A Decision Making Approach on Strategic Alliance of Photovoltaic Industry Based on DEA and GM	154
<i>Chia-Nan Wang and Ting-Chia Wu</i>	
An Approach on Alliance for Online Game Industry	158
<i>Chia-Nan Wang, Jen-Han Tsai and Hsi-Che Teng</i>	
The Role of Information Seeking Behavior in Newcomers' Organizational Socialization	162
<i>Chien-Chung Lu, Shin-Hung Lo, Gou-Fong Liaw and Chin-Tien Hsu</i>	
Applying Orthogonal Arrays Method to Solve Fuzzy Interval for Fuzzy Weighted Average	166
<i>Gino K. Yang, Yuh-Chuan Shih and Kuo-Ping Lin</i>	
A Study of Relationships Among Social Learning, Social Norms and Pro-Environmental Behavior	170
<i>Yu-Ming Wu, Chin-Tien Hsu, Hsiu-Hua Hu and Chien-Chung Lu</i>	
Object-Oriented Case-Based Reasoning System for Collaborative New Product Development	174
<i>Chengter Ho and Hao Chang</i>	
Case-Based Reasoning System for Forging Process Design	178
<i>Chengter Ho and Jerri Mathew</i>	
Vendor Managed Inventory Dynamics Using the Weakest t-Norm Based on Fuzzy Number Arithmetic Operations	182
<i>Kuo-Ping Lin, Ping-Teng Chang and Kuo-Chen Hung</i>	
Analysis on Optimal Ordering Policies in Response to a Temporary Sale	186
<i>Robert Huang-Jing Lin, Kuo-Chen Hung and Peterson C. Julian</i>	
Evaluating Supply Chain Performance Based on Delivery Performance Analysis Chart Approach	190
<i>Chun-Wang Li, Ming-Hung Shu and Chun-Yan Li</i>	
Lifetime-Based Supplier Selection for the Exponential Model with Censored and Imprecise Information	194
<i>Ying-Yu Tzeng, Bi-Min Hsu and Ming-Hung Shu</i>	
Novel Search Engine: Combination of Link and Popularity Rank for Multimedia Retrieval	198
<i>Hiromitsu Hama, Thi Thi Zin and Pyke Tin</i>	
Retrieval of Three-Dimensional Image from Compound-Eye Imaging with Defocus Using Ray Tracing	202
<i>Daisuke Miyazaki, Katsuaki Ito, Yoshizumi Nakao, Takashi Toyoda and Yasuo Masaki</i>	
Robust Detection and Segmentation of Images with Tolerance	206
<i>Thi Thi Zin, Hiromitsu Hama and Pyke Tin</i>	
Recognition and Textual Description of Human Activities by Mobile Robot	210
<i>Atsushi Kojima, Mamoru Takaya, Shigeki Aoki, Takao Miyamoto and Kunio Fukunaga</i>	
Mechanism of Formation of Vision Based on Learning of Correlation between Sensation and Motion	214
<i>Hirofumi Fukumoto and Takashi Toriu</i>	
Measurement of 3D Distance between Artificial Cement-Type Cup and Head After THR	218
<i>Shigeyoshi Nakajima, Mitsuhiko Ikebuchi and Takashi Toriu</i>	
Hierarchical Attention Focusing and a Display Method for Small Mobile Devices	222
<i>Takashi Toriu, Shigeyoshi Nakajima and Hiromitsu Hama</i>	

Flatbed-Type Three-Dimensional Display System as a Tool for Cooperation Working	226
<i>Hideya Takahashi, Noriko Kureyama, Manabu Chikayama and Kenji Yamada</i>	
Design and Development of a Tactile Shape Display by Optical Switching	230
<i>Kenji Yamada and Hiroko Mitsui</i>	
Face Recognition System with Distorted Principal Component Analysis and Fuzzy-Gaussian Neural Network	234
<i>Qin Yao, Yi-Kai Shi and Xia Liu</i>	
Feature Extraction of EEG Waves Based on Morphological Multiresolution Analysis	238
<i>Tomonari Yamaguchi, Mitsuhiro Fujio and Katsuhiro Inoue</i>	
Study on the Visualization of the Impression of Button Sounds	244
<i>Shunsuke Ishimitsu, Koji Sakamoto, Takayuki Arai, Toshikazu Yoshimi, Yuichi Fujimoto and Kenichi Kawasaki</i>	
Construction of Speech Support System Using Body-Conducted Speech Recognition for Disorders	248
<i>Shunsuke Ishimitsu and Masashi Nakayama</i>	
Inspection of Smooth Metallic Surface Using Complex Discrete Wavelet Transform	252
<i>Shiqing Ren, Zhong Zhang, Miyake Tetsuo, Hisanaga Fujiwara and Takashi Imamura</i>	
Neurofuzzy Force-Based Control in an Ethernet-Based Application. A Case Study on a Drilling Process	256
<i>Rodolfo E. Haber, Agustín Gajate and Raúl M. del Toro</i>	
A Virtual Prototype Design Approach of the Embedded Hybrid System	260
<i>Qiong-Jian Fan, Zhong Yang, Ting Fang and Chunlin Shen</i>	
3-D Sound Source Detection by Binaural Model Using Self Organizing Map	264
<i>Zhong Zhang, Kazuaki I, Tetsuo Miyake and Takashi Imamura</i>	
Implementations of Robot Visual Servo by Learning	268
<i>Qingjie Zhao, Hongbin Deng, Xingguang Duan and Haidong Hu</i>	
A Knowledge Based Video Quality Guarantee Method	272
<i>Jiang Zhu, Jiulong He, Guoning Zhang and Yongqiang Li</i>	
Creating Depth Map from 2D Scene Classification	276
<i>Yea-Shuan Huang, Fang-Hsuan Cheng and Yun-Hui Liang</i>	
On Construction of Chinese Medicine Ontology Concept's Description Architecture	280
<i>Yao Liu, Xuefei Chen, Yang Zhou, Huilin Wang, Chengzhi Zhang and Zhenguo Wang</i>	
Manuscript Status Control Algorithm in Electronic Periodicals	284
<i>Guifa Teng, Yang Zhao, Yihong Liu and Chunshan Wang</i>	
The Algorithmic Research on the Acquisition of Multiplex Pulse Period	287
<i>Fei Li, Zhixing Shi, Fang Jia and Peipei Wang</i>	
Sequential Pattern Mining for Chinese E-mail Authorship Identification	291
<i>Jianbin Ma, Ying Li, Guifa Teng, Fang Wang and Yang Zhao</i>	
Mining Rules from Stamping Die Designs	295
<i>Zhou Chi and Ruan Feng</i>	
Mining the URLs: An Approach to Measure the Similarities between Named-Entities	299
<i>Hui Liu, Jinglei Zhao and Ruzhan Lu</i>	
Mining Closed Frequent Itemsets in Sliding Window over Data Streams	303
<i>Jiadong Ren and Cong Huo</i>	

A New Multi-Classification Method Based on Binary Tree Support Vector Machine	307
<i>Gang Sun, Zhiping Wang and Mingxin Wang</i>	
A Block-Structured Mining Approach from Audit Logs.....	311
<i>Liqun Zhang and Haiyang Wang</i>	
Problem Solving with Unstructured Information	315
<i>Shun Long and Jian-Hua Cai</i>	
Simulation and Implementation of High-Performance Collision Warning System for Motor Vehicle Safety Using Embedded ANFIS Prediction	319
<i>Bao Rong Chang, Chung-Ping Young, Hsiu Fen Tsai, Ren-Yang Fang and Jian-Jr Lin</i>	
Sophisticated Computation of Hardware-Software Partition for Embedded Multiprocessor FPGA Systems	323
<i>Trong-Yen Lee, Yang-Hsin Fan, Chia-Chun Tsai and Rong-Shue Hsiao</i>	
A Fuzzy-Rough Set Based Semantic Similarity Measure Between Cross-Lingual Documents.....	327
<i>Hsun-Hui Huang, Horng-Chang Yang and Yau-Hwang Kuo</i>	
General Model of Multiple Weights Fuzzy Appraisal System	331
<i>Tien-Tsai Huang</i>	
Scheduling Sporadic, Hard Real-Time Tasks with Resources Sharing via Dynamic Voltage Scaling Approach	335
<i>Mong-Fong Horng, Chih-Shung Huang, Yau-Hwang Kuo and Jen-Wei Hu</i>	
Multiclass Least Squares Auto-Correlation Wavelet Support Vector Machines	339
<i>Yongzhong Xing, Xiaobei Wu and Zhiliang Xu</i>	
A Lightweight, Fault-Tolerant, Load Balancing Service Discovery and Invocation Algorithm for Pervasive Computing Environment.....	343
<i>Wenshuan Xu, Yunwei Xin and Guizhang Lu</i>	
Towards Automation for Pervasive Network Security Management Using an Integration of Ontology-Based and Policy-Based Approaches.....	348
<i>Hui Xu, Xue Xia, Debao Xiao and Xuejiao Liu</i>	
An Expectation Trust Benefit Driven Algorithm for Resource Scheduling in Grid Computing	352
<i>Yongsheng Hao, Yuebin Xu, Guanfeng Liu and Zhenkuan Pan</i>	
Uplink Spatial Division Multiple Access (SDMA) Optimization of Smart Antennas by Phase-Amplitude Perturbations Based on Memetic Algorithms	356
<i>Chao-Hsing Hsu, Chih-Hui Chen, Chi-Fei Wu and Wen-Jye Shyr</i>	
The Users' Privacy Protecting Scheme Based on Knapsack Problem	360
<i>Chun-Hua Chen</i>	
Optimal Tuning of a Networked Linear Controller Using a Multi-Objective Genetic Algorithm. Application to a Complex Electromechanical Process	364
<i>Diego Martín, Bruno Caballero and Rodolfo Haber</i>	
Using A Priori Information to Reduce the Computational Complexity of RBF-Assisted Turbo Equalization	368
<i>Kun-Huang Kuo, Jenn-Kaie Lain and Ju-Mei Hung</i>	
A Full Connection and Less Memory Usage Scheme for Distributed Sensor Networks.....	372
<i>Chien-Lung Wang, Chun-Hua Chen, Tzung-Pei Hong and Gwoboa Horng</i>	
Object Localization Based on Global Structure Constraint Model and Optimal Algorithm.....	376
<i>Miao Liu, Dongwei Guo, Jie Ma, Xiaohua Liu, Dan Li and Chunguang Zhou</i>	

Test Paper Problem Solved by Binary Ant Colony Algorithm	381
<i>Meiying Cheng and Weiqing Xiong</i>	
Improved Minimum-Range Approach to Blind Extraction of Bounded Sources	385
<i>Guoxu Zhou and Min Zhao</i>	
Optimization Matching of Sensor and Weapon System Based on Geometric Programming	389
<i>Hui Li, Hang-Yu Wang, Shi-Yan Sun and Zhi-Ming Qiu</i>	
The Learning System of Intuitionistic Optimum Based on Hesitancy Set	395
<i>Ping He</i>	
Simulation Based Analysis of Queueing Property for Continuous Self-Similar Traffic	400
<i>Yusuke Shomura, Takuo Nakashima and Toshinori Sueyosh</i>	
Performance Simulation of Routing Protocols in Ad Hoc Wireless Network	404
<i>Natsuru Yamamura, Takuo Nakashima and Seiya Fukushima</i>	
Entropy Based Analysis of Anomaly Access of IP Packets	408
<i>Shuichi Honda, Takuo Nakashima and Shunsuke Oshima</i>	
Improving the Shim's AuthA Password-Authenticated Key Agreement Protocol	412
<i>Eun-Jun Yoon and Kee-Young Yoo</i>	
DoS Attack Impact Assessment based on 3GPP QoS Indexes	416
<i>Peng Su, Xingyuan Chen and Huilin Tang</i>	
The Exchange and Integration of Heterogeneous Data with Uncertainty for Emergency System	420
<i>Yucheng Liu, Xiaoyi Yang and Jun Chen</i>	
Predicting the Total Workload in Telecommunications by SVMs	424
<i>Mingfang Zhu, Changjie Tang, Shucheng Dai, Yong Xiang, Shaojie Qiao and Chen Yu</i>	
A Real-Time Exhaust Monitoring System Based on NDIR and ZIGBEE	428
<i>Tao Liu, Jisheng Zhao, Zhiyuan Rui and Chibing Hu</i>	
Application of Petri Net Model to Lot Scheduling in Steel Works	432
<i>Ryota Maeno, Masami Konishi and Jun Imai</i>	
Research of Plant Domain Knowledge Model Based on Ontology	436
<i>Jing Fan, Xin-Pei Zhang and Tian-Yang Dong</i>	
Supply Center Planning Model Using Fuzzy-AHP and VRP	440
<i>Heung-Suk Hwang, Bae-Suk Choi, Ki-Wook Lee and Gyu-Sung Cho</i>	
Make Your Research in Logistics Effective - Research Methods -	445
<i>Heung-Suk Hwang</i>	
Network Design for Strategic Alliance in Express Courier Services	449
<i>Ki-Ho Chung, Jae-Jeung Rho and Chang Seong Ko</i>	
Profit-Based Network Design in Express Courier Services	453
<i>Hee Jeong Lee, Hyun Jeung Ko, Young Hwan Sohn and Chang Seong Ko</i>	
An Adaptive Evolutionary Algorithm for the Operation Sequencing with Precedence Constraints	457
<i>Jinmo Sung, Chiung Moon and Bongju Jeong</i>	
An Improvement of Sui et al's Second ID-Based Key Issuing Protocol	461
<i>Weimin Shi and Yihua Zhou</i>	
Qualitative Description and Reasoning of Topological Relation in Three-Dimensional GIS	465
<i>Xin Liu, Wen-Bao Liu and Cheng-Ming Li</i>	

Robust Control and Stability Analysis of Fuzzy Large-Scale Systems	470
<i>Shuo Tong and Qingling Zhang</i>	
Robust Fuzzy Fault -Tolerant Control for Nonlinear Systems	474
<i>Tiechao Wang and Shaocheng Tong</i>	
Adaptive Fuzzy Fault-Tolerant Control for Uncertain Nonlinear Systems	478
<i>Yongming Li and Shaocheng Tong</i>	
Controller Failure Analysis for T-S Fuzzy Systems with Time-Varying Delay via a Switched Approach	482
<i>Dong Wang and Wei Wang</i>	
Fuzzy Controller of Single Intersection Based on Video Traffic Detection System	486
<i>Wen-Ge Ma, Yan Yan and Hai-Shuang Guan</i>	
Traffic Flow Prediction Based on Hierarchical Genetic Optimized Algorithm	490
<i>Hai-Shuang Guan, Wen-Ge Ma and Yan-Yu Meng</i>	
Research on the Optimal Assignment of Traffic Signal for Isolated Intersection in Intelligence Transportation System	494
<i>Yan Yan and Wen-Ge Ma</i>	
Interval Type-2 Fuzzy Reasoning Models and Algorithms	498
<i>Chen Yang and Wang Tao</i>	
Studies of Voltage Stability Based on SVC Control	502
<i>Baochun Lu, Baoguo Li, Yi Liu, Weiguo Guan and Gang Lv</i>	
Adaptive Fuzzy Robust Control for Nonlinear System with Dynamic Uncertainties Based on Backstepping	506
<i>Wang Tao and Tong Shaocheng</i>	
System for Recognition of Chinese Medical Pulse Signal Based on Wavelet Analysis and Back Propagation Neural Network	510
<i>Chunbao Huo, Yu Shi and Yang Zhang</i>	
Manufacturer's Return Policy for Two Risk-Averse Competing Retailers	514
<i>Yu-Ting Lu, Chung-Chi Hsieh and Cheng-Hung Li</i>	
Exponentially Weighed Moving Average Control Chart for Gamma Distribution with Type I Censoring	518
<i>Wanbo Lu and Tzong-Ru Tsai</i>	
Progressively Interval-Censored Life Test with Acceptance Sampling	522
<i>Tzong-Ru Tsai, Kuang-Nan Lin, Jyun-You Chiang and Hsiao-Ching Fan</i>	
Fuzzy Application on Rule Space Approach and Graphic Knowledge Structure Representation for Equality Axiom Concepts	526
<i>Yuan-Hong Lin, He-Kai Chen and Shin-Feng Chen</i>	
Simulating Fuzzy Numbers for Solving Fuzzy Equations with Constraints	530
<i>Feng-Tse Lin</i>	
A Steering Vector Estimation Algorithm in Uncalibrated Arrays	534
<i>Meng-Hong Qu and Ying Wu</i>	
Fuzzy Correlation Analysis, With an Application to the Transient Well Test	538
<i>Ciyuan Xiao, Rongxing Hu and Zhibing Liu</i>	
CF Graphs Category and its Product and Upper Product	541
<i>Zou Kaiqi and Yang Lu</i>	
A New Classification Method for Computational Intelligence	545
<i>Yuanyuan Chai, Limin Jia and Zundong Zhang</i>	

Reliability Evaluation for Interconnection Planning in North East Asia	549
<i>Junmin Cha, Jeongje Park and Jaeseok Choi</i>	
A Probabilistic Reliability Evaluation of Korea Power System	553
<i>Jeongje Park, Wu Liang, Jaeseok Choi and Junmin Cha</i>	
Insulation Condition Assessment Using Wavelet Analysis and Statistical Techniques	557
<i>Yu-Hsun Lin and Yann-Chang Huang</i>	
Hybrid Intelligent Approach for Load Control and Management	561
<i>Huo-Ching Sun, Kun-Yuan Huang and Yann-Chang Huang</i>	
A Model for Supply Chain versus Supply Chain Competition	565
<i>Zhaobo Chen and Chunxian Teng</i>	
Creditor's Optimal Contract in Inventory Pledge Loan	569
<i>Ping Yu, Yu Xu and Geng-Zhong Feng</i>	
Marketing Risk Evaluation of Supply Chain	573
<i>Liwei Zhang, Yan Chen and Fei Chen</i>	
SA-RBAC: An Innovative Role-Based Access Control Model Introducing Self-Authentication Mechanism	577
<i>Mingqiu Song and Zhiguo Pang</i>	
A Replenishment Model for Emergency Rescue Systems	581
<i>Lin-Du Zhao and Yi-Ping Jiang</i>	
Application of Plant Growth Simulation Algorithm on Solving Discrete Facility Location Weber Problem	585
<i>Tong Li, Yingtao Li and Zhongtuo Wang</i>	
Knowledge Representation for Disruption Management Problems in Urban Distribution Decisions	589
<i>Lijun Sun, Xiangpei Hu and Yan Fang</i>	
An Improvement to CNCP in Large-Scale Multi-Agent System	593
<i>Jian Yang, Wen-Li Li and Chun-Yu Hong</i>	
Investment in Collaborative Commerce Chain Systems Based on Option Game	597
<i>Yunfu Huo and Deli Yang</i>	
Bottleneck Machine Identification for Shop Scheduling Problems	603
<i>Rui Zhang and Cheng Wu</i>	
Aggregative Assessment Method for Sampling Survey with the Linear Order Character of Symmetric Fuzzy Linguistics	607
<i>Lily Lin, Huey-Ming Lee, Tsung-Yen Lee and Shu-Yen Lee</i>	
Using Fuzzy Genetic Algorithms to Solve Fuzzy Inventory Problem	611
<i>Huey-Ming Lee, Jin-Shieh Su, Teng-San Shih and Ching-Fen Fuh</i>	
Some Analytical Properties of Expected Values of Fuzzy Variables with Parameters	615
<i>Shuming Wang and Junzo Watada</i>	
Exposure Analysis of RMB Exchange Rate in Business	619
<i>Junzo Watada and Song Wen</i>	
A New Parallel Session Attack to Khan-Zhang's Authentication Scheme	623
<i>Wen-Gong Shieh and Mei-Tzu Wang</i>	
Representative-Based Diversity Retrieval	627
<i>Chein-Shung Hwang, Naiwen Kuo and Ping Yu</i>	

A New Video Semantic Model Based on 3D C-String Knowledge Representation	631
<i>Ping Yu, Anthony J. T. Lee, Naiwen Kuo and Chein-Shung Hwang</i>	
A Profiled Malicious Bidder Behavior Model Based on SOM Algorithm.....	635
<i>Huey-Ming Lee and Chih-Wei Wang</i>	
A Novel Music Retrieval System with Relevance Feedback	639
<i>Gang Chen, Tian-Jiang Wang and Perfecto Herrera</i>	
ETX - A Language for Processing of XML Data by ET Rules.....	643
<i>Zheng Cheng, Kiyoshi Akama and Hiroshi Mabuchi</i>	
Adaptive Control Design of Band-Pass Digital Filters by Poleplacement Approach	647
<i>Kai-Chao Yao</i>	
Unbalanced Analysis of Changing Medium-Voltage Distribution Feeders from Open-Loop to Closed-Loop Arrangement.....	651
<i>Wen-Chih Yang, Wei-Tzer Huang and Jin-Zhong Chen</i>	
Implement of a Cascade Integral Sliding Mode Controller for a Water Tank Level Control System	655
<i>Hong-Ming Chen and Zi-Yi Chen</i>	
Implementation of Wireless Image Tracking for Wheeled Mobile Robots.....	659
<i>Chun-Chieh Wang and Chih-Teng Shen</i>	
The Adaptive Control Applied to the Analysis of the Excavator Dynamics	663
<i>Pao-Hwa Yang, Shiu-Ping Wang, Jiunn-Shean Chiang and Chung-Shing Wang</i>	
Three-Phase Line Flows Calculation for Distribution Automation by ZBUS Distribution Factor	667
<i>Wei-Tzer Huang, Shiu-Tai Chen, Kai-Chao Yao and Chun-Ching Wu</i>	
Optimal Design of DC-DC Converter with LC Snubber by Hybrid Method	671
<i>C. K. Chen, C. K. Huang, H. H. Nien, S. K. Changchien, C. H. Chan and S. Y. Wu</i>	
Digital Control Design of Decentralized Stochastic Singularly-Perturbed Large-Scale Actuator Type Systems with Multiple Time-Varying Delays.....	675
<i>Kai-Chao Yao, Der-Fa Chen and Wei-Tzer Huang</i>	
A Research on Establishing A Network Structure of International IP Video Conferencing and Evaluating the Multi-Site Real-Time Interactive Courses with Schools Around the World	679
<i>Chin-Wen Liao and Chien-Yu Lu</i>	
Fault Adaptive Control for RUAV Actuator Failure with Unscented Kalman Filter.....	683
<i>Juntong Qi and Jianda Han</i>	
Generating Wide FOV Video without Ghost Based on Multicamera Setup.....	691
<i>Wu-Chih Hu, Ching-Yu Yang and Pin-Kuo Chen</i>	
Apply an Adaptive Center Selection Algorithm to Radial Basis Function Neural Network for Face Recognition	695
<i>Chuan-Yu Chang and Hung-Rung Hsu</i>	
A New Bayesian Classifier for Skin Detection	699
<i>Sajad Shirali-Shahreza and M. E. Mousavi</i>	
An Effective Shot Boundary Detection Algorithm for Movies and Sports.....	703
<i>Shien-Tang Chiu, Guo-Shiang Lin and Min-Kuan Chang</i>	
On the Security of Reversible Data Hiding Based-on Histogram Shift	707
<i>Wen-Chung Kuo and Yan-Hung Lin</i>	

A Fragile Watermarking with Authentication and Post-Compression for Digital Camera	711
<i>Chuen-Ching Wang, Yao-Tang Chang and Ming-Jun Chi</i>	
A Robust-Fragile Watermarking Scheme for Image Authentication	715
<i>Chia-Chun Wu, Shang-Juh Kao, Wen-Chung Kuo and Min-Shiang Hwang</i>	
Military Targets Endpoint Detection Based on Gray Correlation Analysis	720
<i>Shengliang Hu, Yaobo Li, Zhifeng Cheng and Gong Chen</i>	
The Corner Detection Algorithm Based on 2-D Discrete Wavelet Transform	724
<i>Qing Liu and Tu-Sheng Lin</i>	
Analyse of Accuracy for Passive Estimation of Target Depth in Deep Sea Based on Vertical Linear Array	728
<i>Jun Xing, Zhong Liu and Pengfei Peng</i>	
A New Cycle-Stealing Technique for Pipelined Instruction Decompression System for Microprocessors	734
<i>Yuan-Long Jeang, Tzuu-Shaang Wey, Hung-Yu Wang and Ching-Hua Chu</i>	
A Robust Impedance Control Using Recurrent Fuzzy Neural Networks	738
<i>Tsai-Jiun Ren</i>	
An Adaptive Routing Algorithm for Mesh-Tree Architecture in Network-on-Chip Designs	742
<i>Yuan-Long Jeang, Tzuu-Shaang Wey, Hung-Yu Wang, Chung-Wei Hung and Ji-Hong Liu</i>	
Developing Aweb Based Digital Life System	746
<i>Ching-Shine Hwang and Yuan-Hung Lo</i>	
A Scalable Wavelet Image Coder Based on Zeroblock and Array	750
<i>Yuan-Long Jeang, Hung-Yu Wang and Cyuan-Cheng Wong</i>	
Hardware Implementation of a Hybrid Intelligent Controller for a Twin Rotor MIMO System	754
<i>Jih-Gau Juang and Wen-Kai Liu</i>	
A Problem-Specific Genetic Algorithm for Multiprocessor Real-Time Task Scheduling	758
<i>Yajun Li, Yuhang Yang, Maode Ma and Rongbo Zhu</i>	
Design of Integrated GPS/DR Orientation System Based on Double CPU	762
<i>Jie Cao, Yu Li and Chongyu Ren</i>	
A Dividing Ratio Changeable Digital PLL with Low Output Phase Noise	766
<i>Kuniaki Fujimoto, Mitsutoshi Yahara, Hirofumi Sasaki and Yan Shi</i>	
Design of Embedded Electro-Hydraulic Servo Control System	770
<i>Jiangang Yi and Kuisheng Chen</i>	
Simulink-Based Dynamic Priority Scheduling for Optimization in Network-on-Chip Communication	773
<i>Yangyang Pan, Lei Li, Haibin Shen and Xiaolang Yan</i>	
Real Time Performance Analysis of CAN Bus Based on TimeNET	777
<i>Lian-Cheng Cui, Zheng-Fang Zhao, Xiao-Ju Xu, Fang-Ming Wu and Wei-Zhen Shan</i>	
The Development and Research of Intelligent Circuit Breaker Model Based on ARM7	781
<i>Li Li, Jiaomin Liu, Jinghong Wang and Longlong Ma</i>	
Feature Extraction and Recognition for Road Sign Using Dynamic Image Processing	785
<i>Shigeharu Miyata, Hitomi Nakamura, Akira Yanou and Shin Takehara</i>	
A Statistical Approach for Handwritten Character Recognition Using Bayesian Filter	789
<i>Nozomu Araki, Miyuki Okuzaki, Yasuo Konishi and Hiroyuki Ishigaki</i>	

An Extension of Self-Tuning Two Degree-of-Freedom GPC Based on Polynomial Approach with Computational Savings	794
<i>Akira Yanou, Shiro Masuda, Mingcong Deng and Akira Inoue</i>	
Two-Degree-of-Freedom Generalized Predictive Control in a Multirate System	798
<i>Takao Sato, Hiroyuki Yanai, Akira Yanou and Shiro Masuda</i>	
Positioning Control of a 2-Mass Spring System with Static and Kinetic Friction Using Hybrid Controller	802
<i>Kenji Tadokoro, Yasuo Konishi, Nozomu Araki and Hiroyuki Ishigaki</i>	
Generalized Minimum Variance Control in Sampled-Data Control Systems	808
<i>Takao Sato</i>	
Affective-Cognitive of Images Based on Complex Features	812
<i>Bo Hao, Jijun Wang, Xiaopeng Wei, Yuning Wei and Guojie Feng</i>	
An Improved FCM algorithm for Color Image Segmentation	816
<i>Zou Kaiqi, Wang Zhiping and Hu Ming</i>	
An Improved Fuzzy C Means and Kathunen-Loeve Transform Method for Face Detection	820
<i>Ming Hu, Qiang Zhang, Zhiping Wang and Gaochong Wu</i>	
A Fast Mode Decision Algorithm for Inter-Frame in H.264/AVC.....	824
<i>Pengyu Liu, Kebin Jia and Xu He</i>	
PKI-Based E-Business Security System	828
<i>Hua-Qing Zhou and Sheng-Hui Dai</i>	
Web Service-Based Business Intelligence System Research and Implementation	833
<i>Changqiong Shi and Dafang Zhang</i>	
Research on the Models to Customize Private UDDI Registry Query Results	837
<i>Huimin He, Haiyan Du, Dongxia Han and Yuemei He</i>	
Algorithm for the GME Problem in Real-Time Distributed Systems Based on Token	841
<i>Zhang Hu</i>	
Parallel Design and Implementation of Block Mode Selection in Motion Estimation	846
<i>Shan Chen and Wenyin Zhang</i>	
Model and Application of Web-Based Intelligent Tutoring System	850
<i>Gang-Yong Lin, Sheng-Hui Dai and Zhao-You Zhu</i>	
Synchronization Model Design and Implementation of Distributed Multimedia System	855
<i>Sheng-Hui Dai, Zhao-You Zhu and Gang-Yong Lin</i>	
D-Overlay: A Delay-Aware Overlay for Gaming Services	860
<i>Xiaofei Liao, Linchen Yu, Hai Jin and Hong Yao</i>	
A New Model of Social Network Service Platform.....	864
<i>Ping Guo, Dong Li and Fei Wen</i>	
Information System and Management Strategy of Customer Relationship Management	868
<i>Zhong-Hong Sun</i>	
An Internet Assessment Service System for Cognition Diagnosis Based on Integration of Ordering Theory and S-P Chart	873
<i>Yuan-Hong Lin, Tsung-Lin Chuang and Shin-Feng Chen</i>	
An Architecture of Intelligent Virtual Avatars for E-Business.....	877
<i>Zhen Liu</i>	
Equilibrium in Linear Quadratic Stochastic Games with Unknown Parameters	881
<i>Manuel Jimenez-Lizarraga and Michael Basin</i>	

Control and Applications of Nanotubes to Nanoelectromechanic Systems (NEMS)	885
<i>Oxana V. Kharissova, Michael V. Basin and Mario Osório Abraham</i>	
A Penalty Function Approach to Solve the Bilevel Tolls Problem	889
<i>Vyacheslav V. Kalashnikov, Nataliya I. Kalashnykova and Jose Fernando Camacho Vallejo</i>	
Solution of Nonlinear Complementarity Problems with Inexact Newton Methods	893
<i>Nataliya I. Kalashnykova, Vyacheslav V. Kalashnikov and Aaron Arevalo Franco</i>	
Numerical Experiments with Theoretical Model of Gas Market	897
<i>Vitaly V. Kalashnikov, Nataliya I. Kalashnykova and Cesar Uranga</i>	
Risk-Sensitive Approach to Optimal Filtering and Control for Linear Stochastic Systems	901
<i>M. A. Alcorta Garcia, M. V. Basin and Y. G. Acosta Sanchez</i>	
Research on the 3D Reconstruction for Ultrasonic Image and Quantitative Identification for Lacuna	905
<i>Yanying Wang and Zhigang Huang</i>	
Conductor Corrosion Fault Detection & Identification For Grounding Grids	909
<i>Shuqi Wang, Jian Liu, Jianxin Wang, Zhizhong Li and Sen Wang</i>	
An Autonomous Iteration-Based Identification of Faulty Links in LEO Satellite Communication Networks	914
<i>Zhi-Gang Zhao and Jian-Hui Wang</i>	
Research on Elementary Principals of Complex System Control	918
<i>Zundong Zhang, Limin Jia and Yuanyuan Chai</i>	
An Optimization Model for Apparel Supply Contract with Option	922
<i>Yuki Kumakiri and De-Bi Cao</i>	
Solving Large Multilevel Lot-Sizing Problems with an Effective Heuristic Algorithm Based on Segmentation	926
<i>Ikou Kaku, Zhaoshi Li and Chunhui Xu</i>	
Research on GA/CPM/MarKov Integrated Programming of Dynamic Risk for Virtual Enterprise	930
<i>Min Huang, Guanjie Jiang, Kegui Chen, W. H. Ip and Xingwei Wang</i>	
Pricing Participating Policies Using Optimization Techniques	934
<i>Perla Rocio Calidonio Aguilar and Chunhui Xu</i>	
Optimizing Raw Materials Procurement Planning by Fuzzy Programming with Recourse	939
<i>Gao-Ji Sun and Yan-Kui Liu</i>	
Study of Equipment Management Hierarchy Model in Manufacturing Enterprises	943
<i>Yumin Sui and Youxin Meng</i>	
Study on Lot-Based Tracking Method of Production Logistics in Iron and Steel Industry	948
<i>Qiunan Meng, Qian Yin and Xiaobing Liu</i>	
Research of Exception Handling in Workflow Management System Based on Agents Group	952
<i>Jinzh Hu, Cong Zhang, Yi Zhang, Dongmeng Zhao, Junping Chen and Chun Fang</i>	
The National Logistics City Business and Information Systems Architecture	956
<i>K. T. K. Toh, C. Sengpiehl, R. Oakden, P. Nagel and P. Shi</i>	
Research Infrastructure for Logistics Research Support	960
<i>K. T. K. Toh, M. Boskovic, H. Shi, P. Nagel and P. Shi</i>	
Integration of CMOS VCO and Frequency Divider for Ku-Band Low-Power Frequency Synthesizer	964
<i>Pei-Kang Tsai, Tzuen-Hsi Huang and Yo-Sheng Lin</i>	

A Multi-Band Current-Reused VCO for 2.5 GHz and 3.4 GHz WiMAX Applications	968
<i>Chien-Hsuan Liu, Ruey-Lue Wang, Chia-Yu Chen and Yan-Kuin Su</i>	
A 60-GHz Millimeter-Wave Triangular Monopole Antenna Fabricated Using 0.18 μm CMOS Technology	972
<i>P.-C. Kuo, S.-S. Hsu, C.-C. Lin, C.-Y. Hsu and H.-R. Chuang</i>	
A 3-5-GHz Low-Voltage High-Isolation Transformer-Based CMOS Mixer for UWB Applications	975
<i>J.-T. Lai, Y.-S. Lin, C.-L. Lu and H.-R. Chuang</i>	
Chip Implementation of a 1.5-GHz Gain-Control Phase Shifter	979
<i>Hung-Chi Wang, Chi-Yuan Lu, Jyh-Ching Juang and Chun-Lin Lu</i>	
Wireless Monitoring System of Vehicle Violation of Running Red Led Based on GPRS.....	983
<i>Zengqiang Ma, Dongyang Chen and Liang Cui</i>	
A Method for Blind Identification of Uplink Virtual MIMO Signal	987
<i>Qinghua Chen, Xianzhong Xie and Yi Zheng</i>	
Anti-Collision Algorithm of Splitting Tags in RFID Systems	991
<i>Bo Li, Weijun Li and Yuanjian Zhang</i>	
A Version Management Method for Managing Business Process Changes Based on Version-Stamped Business Process Change Patterns	995
<i>Namhun Lee, Dongsoo Kim, Minsoo Kim and Sukho Kang</i>	
Generating a Personalized Clinical Process Based on Medical Knowledge Base.....	999
<i>Yeong-Bin Min, Dongsoo Kim, Suk-Ho Kang and Taesoo Lim</i>	
Business Process Patterns for Integrated Supply Chain Planning.....	1003
<i>Hanil Jeong, Tai-Woo Chang, Hyunbo Cho, Boonserm Kulvatunyou and Albert Jones</i>	
Measuring Entropy in Business Process Models	1007
<i>Jae-Yoon Jung</i>	
Process Improvement Evaluation in Mail Distribution Center by Applying RFID Technology	1011
<i>Zhenguo Wang, Minsoo Kim, Hoon-Young Koo and Hyerim Bae</i>	
Business Process Debugger for Process Design	1015
<i>Minsoo Kim and Dongsoo Kim</i>	
A Game Model of Tradable Pollution Emission Permits Based on Bilateral Auction	1019
<i>Congjun Rao, Zhongcheng Zhang, Huanbin Liu and Chuanfeng Li</i>	
Research on Loss Risk under Incomplete Information	1024
<i>Kan Zhang and Xue Feng</i>	
Application and Construction of General Prediction Model for Drugs Marketing System	1028
<i>Zhaoyang Qu, Nannan Geng and Ang Li</i>	
Extension BPML for Sub-Process.....	1033
<i>Meng Gao, Liqun Zhang and Yong Ling</i>	
An Improved Spatial Scheduling Algorithm for Block Assembly Shop in Shipbuilding Company	1037
<i>Shiegheun Koh, Chanho Eom, Junghee Jang and Yongsun Choi</i>	
Heuristics for the Access Network Design Problem in 3G Mobile Communication Networks	1041
<i>Hu-Gon Kim, Chun-Hyun Paik and Yong-Joo Chung</i>	
Performance Analysis of a New Work Assignment in Assembly Cells.....	1045
<i>Pyung-Hoi Koo, Woon-Seek Lee, Young Jin Kim</i>	

Development of Robust Data Computing Methodology (RDCM) for a Multidisciplinary Pharmaceutical Process Design	1049
<i>Sangmun Shin, Kyungjin Park and Byung-Nam Kim</i>	
Driving Strategic Issues as Champion Projects for Six Sigma	1054
<i>Hyuck Moo Kwon, Min Koo Lee, Sung Hoon Hong and Do Whan Choi</i>	
Transporter Scheduling under Dynamic Block Transportation Environment	1058
<i>Woon-Seek Lee, Won-Il Lim, Pyung-Hoi Koo and Cheol-Min Joo</i>	
The Implement Approach of Product Optimization for Variant Design Based on the Artificial Immune Algorithm	1062
<i>Xiuyan Zhao, Xiaopeng Wei, Tingting Zhao and Qiang Zhang</i>	
A New Constraint-Preserving Method for Solving Nonconvex Economic Dispatch with Linear Constraints	1066
<i>Fu-Sheng Cheng, Chung-Lun Lin, Ming-Tong Tsay and Chao-Ming Huang</i>	
Fuzzy Production Planning Problem with Credibility Service Level Constraints	1070
<i>Yan-Fei Lan and Yan-Kui Liu</i>	
A New Solution of Concurrent Field Bus	1074
<i>Hong Ding, Yanhui Xie, Yanhong Wang, Fuwen Sun and Qiumig Ma</i>	
Evaluating RFID System Suppliers under Fuzzy Environment: Based on Incomplete Linguistic Preference Relations	1078
<i>Tien-Chin Wang, Tsung-Han Chang and Shu-Chen Hsu</i>	
Grey Multi-Hierarchical Model in Partner-Selecting of Knowledge Alliances	1084
<i>Ming-Chang Lee, Jung-Fang Chen and Jui-Fang Chang</i>	
Applying Investment Satisfied Capability Index and Genetic Algorithms to Construct the Stocks Portfolio	1088
<i>Jui-Fang Chang, Tien-Wang Tsaur and Jo-Chun Huang</i>	
A DCC Analysis of Stock Market and Exchange Rates: An Evidence Study of the South Korea Country	1092
<i>Wann-Jyi Horng and Ming-Chi Huang</i>	
Overview of the New Types of Intelligent Decision Support System	1096
<i>Faguo Zhou, Bingru Yang, Linna Li and Zhuo Chen</i>	
Application of Fuzzy Time Sequence in Stock Prediction	1100
<i>Kaiqi Zou and Beiyang Li</i>	
An Impact of the Oil Prices' Volatility Rate for the U.S. and the Japan's Stock Markets Return: A DCC and Bivariate Asymmetric-GARCH Model	1104
<i>Wann-Jyi Horng and Ya-Yu Wang</i>	
Measuring Fuzzy Risk by Credibilistic Value at Risk	1108
<i>Jin Peng</i>	
Portfolio Selection Problem in Fuzzy Random Decision Systems	1112
<i>Fang-Fang Hao and Yan-Kui Liu</i>	
Decision-Making Criteria Research on Uncertainty Decision-Making Problems Based on Belief Functions	1116
<i>Wenhong Lv, Fanghua Xie and Jiehua Liu</i>	
E-Commerce Adoption by Taiwan Entrepreneurs	1120
<i>Meng-Chun Liu and Ming-Wen Hu</i>	
Exploring Business Opportunities and Development on Patent Engineering in Taiwan	1124
<i>Jiann-Gwo Doong and Ching-Song D. Wei</i>	

Service Competition for IT Service Outsourcing	1128
<i>Pao-Li Kuo and Chung-Chi Hsieh</i>	
Empirical Analysis on the Level of Economic Development in Ningxia Hui Autonomous Region, Western China	1132
<i>Shengquan Ma, Ruibo Han and Huhua Cao</i>	
The Application of Support Vector Machine Improved Method In Analyzing Macroeconomic	1136
<i>Ji-Guang Qiu, Zhao-Jun Shi, You-Xin Wu and Gong-He Jiang</i>	
Risk Management in IT Project's Establishment	1140
<i>Zheng Qin and Qingchen Shang</i>	
A Case Based Clustering-Based TSK Fuzzy Rule Systems for Stock Price Forecasting	1144
<i>Pei-Chann Chang, Chin-Yuan Fan and Jyun-Jie Lin</i>	
Study on Government Micro-Control and Port Scale Competition Game	1148
<i>Yanbing Yang</i>	
A Study of Information System Reengineering as ERP Is Introduced to Businesses Adapting to the E-Business Era	1152
<i>Chia-Chia Lin, Wen-Chia Tsai and Dong-Her Shih</i>	
A Product Mix Problem Based on Maximization of the Total Profit and Reduction of Excessive Inventories Including Uncertainty	1156
<i>Takashi Hasuike and Hiroaki Ishii</i>	
Sensor Soft Failure Diagnostics Based on Aero-Engine On-Board Adaptive Model	1160
<i>Wei Xue, Ying-Qing Guo and Xiao-Dong Zhang</i>	
Design of Turbine Engine Robust Fault Detection with LPV Model	1164
<i>Linfeng Gou, Xin Wang and Liang Chen</i>	
Simulation Analysis on Differential Speed Drive of Double BLDCM Based on PID	1168
<i>Xiao-Dong Zhang</i>	
Study on Intelligent Measurement Method for Non-Linear Parameters	1172
<i>Lichen Gu and Peijin Liu</i>	
Study on Precise Batching System Based on Networked and Intellectual Control	1176
<i>Changhong Tong, Jianlong Huang, Xiaodong Zhang, Bin Yang and Shifang Dong</i>	
Study on Pump Fault Diagnosis Based on Rough Sets Theory	1180
<i>Jiangping Wang and Zefu Bao</i>	
Investigation of Knowledge Inclusion Relations in Faults Knowledge Discovery	1184
<i>Rongzhen Zhaol, Chao Li, Bin Peng</i>	
Experiment Method Study on the Dynamic Response of Multilayer Flexible Pavement	1188
<i>Zhonghong Dong and Pengmin Lü</i>	
Backstepping Variable Structure Control with L2 Gain for Nonlinear Torpedo Depth System	1192
<i>Ye Chen and Deshi Wang</i>	
Research of Distributed Curvature Modal Sensors with Optical Fiber on Vibration Measurement for Thin Structures	1196
<i>Jie Chen, Xuejun Hu and Lixin Xu</i>	
The Predictions of Luminous Intensity and Wavelength of Light-Emitting Diode by Neural Network	1200
<i>Pin-Hsuan Weng, Fang-Tsung Liu, Huang-Chu Huang, Yu-Ju Chen and Rey-Chue Hwang</i>	

A Hybrid Supervised Neural Network Learning Algorithm	1204
<i>Pin-Hsuan Weng, Fang-Tsung Liu, Yu-Ju Chen, Chuo-Yean Chang, Rey-Chue Hwang</i>	
Determination of Coupled-of-Modes Parameters by Applying Neural Network Technique	1208
<i>Shuming T. Wang, Pin-Hsuan Weng, Mei-Hui Chung, Shen-Whan Chen and Rey-Chue Hwang</i>	
An Intelligent Fault Diagnostics for Turbine Generator by Modified Neural Model	1212
<i>Pin-Hsuan Weng, Jen-Pin Yang, Fang-Tsung Liu, Huang-Chu Huang, Ker-Wei Yu and Rey-Chue Hwang</i>	
The Represented Model of Wave-Induced Ship's Motions by Using Neural Network	1216
<i>Xing-Cong Zeng, Hung-Yi Yang, Ker-Wei Yu and Tsun-Lirng Yang</i>	
Design of a Fuzzy Logic Controller with a Variable Structure Based Supervisor	1220
<i>Juhng-Perng Su, Ting-En Lee and Ker-Wei Yu</i>	
Research of Navy Vessel Synergetic Design System Based on SBA	1224
<i>Jianwei Lv and Hai Zhou</i>	
Analysis and Formulation of Printing Process to Develop Knowledge-Based Scheduling Software	1228
<i>Shimpei Matsumoto, Koji Okuhara, Nobuyuki Ueno and Hiroaki Ishii</i>	
Satisfiability Problem of Linguistic Truth-Valued Intuitionistic Propositional Logic	1232
<i>Li Zou and Wenjiang Li</i>	
A New Approach for Generator Maintenance Scheduling in Deregulated Power Systems	1236
<i>Sung-Ling Chen, Kun-Yuan Huang and Yam-Chang Huang</i>	
A Platform Framework for Cross-Lingual Text Relatedness Evaluation and Plagiarism Detection	1240
<i>Chung-Hong Lee, Chih-Hong Wu and Hsin-Chang Yang</i>	
FAVC: Clustering Categorical Data Using the Frequency of Attribute Values Combinations	1244
<i>Hee-Jung Do and Jae-Yearn Kim</i>	
A Multilingual Hierarchy Mapping Method Based on GHSOM	1248
<i>Hsin-Chang Yang, Ding-Wen Chen and Chung-Hong Lee</i>	
A Novel Extension of Rough Set Model in Incomplete Information System	1252
<i>Xibei Yang, Fang Qu, Jingyu Yang and Jun Xie</i>	
A Customer Data Mining Model Based on Fuzzy BP Neural Network	1256
<i>Jie Cao and Ming-Zan Wu</i>	
Design and Implementation of Process Mining System Based on alpha-Algorithm	1260
<i>Yong Ling, Liqun Zhang and Meng Gao</i>	
N-Divided Travel Algorithm for SLCA Problem	1264
<i>Lei Zhang, Xiao-Guang Hong and Bao Liang</i>	
A Novel Approach for Frame-Based Knowledge Similarity	1268
<i>Chin-Jung Huang and Chi-Hong Tsai</i>	
Truth Value Flow Inference in Hybrid KBS Constructed by KWS	1272
<i>Liya Ding and Sio-Long Lo</i>	
Acquisition of Tuning Rules for Hot Strip Looper System Based on Fuzzy Classifier System	1276
<i>Yoshihiro Abe, Masami Konishi and Jun Imai</i>	
Valuing American Options under ARMA Processes	1280
<i>Chou-Wen Wang and Chin-Wen Wu</i>	

A Study on Performance Measurement of High-Tech Industry: An Application of Panel Threshold Effect Model	1283
<i>Pai-Lung Chou, Jia-Jun Lin and Chen-Hua Yao</i>	
Design Variables Optimization of Mechanical Problems	1287
<i>Kuo-Ming Lee, Jinn-Tsong Tsai, Wen-Hsien Ho, Tung-Kuan Liu and Jyh-Horng Chou</i>	
The Use of Term Structure Information in the Hedging of Japanese Government Bonds	1290
<i>Jian-Hsin Chou, Hong-Fwu Yu and Chien-Yun Chang</i>	
An Estimate of Deposit Insurance Premium Considering Liquidity Risk	1294
<i>Min-Sun Horng, Liang-Fa Kao and Roger C. Y. Chen</i>	
Apply Genetic Algorithm to Explore Fund of Funds on Efficient Frontier and Product Design	1298
<i>Chaohsin Lin, Shuofen Hsu and Suchu Chen</i>	
A Nonmonotone MBFGS Method for Solving Nonconvex Minimization Problems	1302
<i>Zheng Yue and Liu June</i>	
New Multi-Objective Constrained Optimization Evolutionary Algorithm	1306
<i>Chun-An Liu</i>	
Precipitation State Forecasting Based on Unascertained C-Means and Markov Chain Model with Gray Relevancy Weights	1310
<i>Li-Hua Ma and Hui-Zhe Yan</i>	
Study on Modeling and Simulation Method of Processing for Abnormal Shape Screw	1314
<i>Lianqiang Niu, Xin Chen, Yinlong Xu and Ke Wang</i>	
The Study of VMI Inventory Decision Support System Using Neural Network Technology	1319
<i>Peitsang Wu, Kung-Jiuan Yang, Yung-Yao Hung and Bao-Yuan Huang</i>	
A Figure Extraction and Synthesis System by Learning Vector Quantization Neural Networks	1323
<i>Chuan-Yu Chang, Zong-Yu Tsai and Chun-Hsi Li</i>	
Mining Frequent Patterns with Item, Aggregation, and Cardinality Constraints	1327
<i>Wen-Yang Lin, Ko-Wei Huang, He-Yi Li and Chang-Long Jiang</i>	
Hierarchical Document Clustering Using Fuzzy Association Rule Mining	1331
<i>Chun-Ling Chen, Frank S. C. Tseng and Tyne Liang</i>	
An AI-Agent-Based Trapezoidal Fuzzy Ensemble Forecasting Model for Crude Oil Price Prediction	1335
<i>Lean Yu, Shouyang Wang, Bo Wen and Kin Keung Lai</i>	
Mining with Prelarge Trees for Record Modification	1339
<i>Chun-Wei Lin, Tzung-Pei Hong and Wen-Hsiang Lu</i>	
A High Performance Frequent Itemset Mining Algorithm Using Confidence Frequent Pattern Tree	1343
<i>Kun-Ming Yu and Bin-Chang Wu</i>	
A Novel Recommendation Method Based on Rough Set and Integrated Feature Mining	1347
<i>Vincent S. Tseng, Ja-Hwung Su, Bo-Wen Wang and Chin-Yuan Hsiao</i>	
Multi-Kernel Support Vector Clustering for Multi-Class Classification	1351
<i>Chi-Yuan Yeh, Chi-Wei Huang and Shie-Jue Lee</i>	
New Algorithm of Maximum Frequent Itemsets for Mining Multiple-Level Association Rules	1355
<i>Peng Dong and Bo Chen</i>	

New Basic Theory on Quantum Neuro-Computation	1359
<i>Hiroyuki Matsuura and Masahiro Nakano</i>	
The Extremal Sampling Technique	1363
<i>Hideki Yoshida, Yasunari Maeda and Yoshitaka Fujiwara</i>	
Effect of HIV on Japanese Population	1367
<i>Kazuharu Koide, Hiroyuki Matsuura, Nobuo Noda, Tetsuya Nemoto, Yasumi Ito, Makoto Yamanaka and Masahiro Nakano</i>	
Effects of High-Frequency Repetitive Transcranial Magnetic Stimulation on the Treatment-Resistant Depression and Its Mechanism	1370
<i>Toru Yukimasa, Reiji Yoshimura and Jun Nakamura</i>	
Medical Radiograph of Nano-Magnetic Fluid Used by Spring-8 Synchrotron Radiation X-Ray	1373
<i>Ken-Ichi Makino, Masahiro Nakano, Hiroyuki Matsuura, Kazuharu Koide, Nobuo Noda, Dong-Ying Ju, Pei Bian, Takashi Kumazawa, Mitsuo Akutsu, Kazunori Masuyama, Yusuke Uozumi, Nobuhito Tonohata, Shinzo Kimura and Takeshi Kondoh</i>	
Drug Delivery System Using Nano-Magnetic Fluid	1377
<i>Masahiro Nakano, Hiroyuki Matsuura, Dong-Ying Ju, Takashi Kumazawa, Shinzo Kimura, Yusuke Uozumi, Nobuhito Tonohata, Kazuharu Koide, Nobuo Noda, Pei Bian, Mitsuo Akutsu, Kazunori Masuyama and Ken-Ichi Makino</i>	
Molecular Structure and Information Complexity of Social Organization DNA	1381
<i>Haimin Lei, Ping Liang and Yanqing Guo</i>	
A Genetic Programming Ensemble Approach to Cancer Microarray Data Classification	1385
<i>Supoj Hengpraprom and Prabhas Chongstitvatana</i>	
Combination of KNN-Based Feature Selection and KNN-Based Missing-Value Imputation of Microarray Data	1389
<i>Phayung Meesad and Kairung Hengpraprom</i>	
New Results on H Infinity Control of Input Delay Systems	1393
<i>Huijun Gao and Zhiguang Feng</i>	
Robust Adaptive Control for a Class of Uncertain Switched Delay Systems with Actuator Failures	1397
<i>Rui Wang, Man Liu, Jun Zhao and Wei Wang</i>	
Gain-Scheduled Guaranteed Cost Control for LPV Systems with Time-Varying State and Input Delays	1401
<i>Junling Wang, Peng Shi and Junming Wang</i>	
Adaptive Observer Based Actuator Fault Diagnosis for ASV	1407
<i>Jianfei Wang, Bin Jiang, Peng Shi and Hankang Wang</i>	
Decoupling Double-Loop Control System with ADRC	1412
<i>Bo Liu, Yuanqing Xia and Jie Chen</i>	
Controllability, Observability and Stabilization of a Class of Matrix Linear Systems	1416
<i>Bin Zhou, Guang-Ren Duan and Zheng Zhong</i>	
Fault Detection of Networked Control Systems Based on Kalman Filter	1420
<i>Yingwei Zhang, Yu Chen, Qingfeng Meng and Ting Wang</i>	
Non-Fragile Fault Tolerant Control of the Linear Discrete-Time Systems with Multi-Indices Constraints	1426
<i>Shu-Bin Wang, He Huang and Zhi-Quan Wang</i>	

Observer-Based H Infinity Control for Discrete-Time Fuzzy Systems Using Fuzzy Lyapunov Functions.....	1430
<i>Zhiwei Lin, Yuanqing Xia, Jinhui Zhang and Peng Shi</i>	
Adaptive Sliding Mode-Like Fuzzy Logic Control for Nonlinear Systems.....	1434
<i>Xiaoyu Zhang, Quanzhu Zhang, Lingfei Xiao and Hongye Su</i>	
A "Decision and Re-Solving" Beamformer for the PAM Communication System.....	1440
<i>Wenlong Liu and Shuxue Ding</i>	
The Image Compression Method Based on Adaptive Segment and Adaptive Quantified	1444
<i>Shi-Qiang Zhang, Shu-Fang Zhang, Xin-Nian Wang and Yan Wang</i>	
Wavelet Digital Watermark Based on Chaotic Sequence.....	1448
<i>Yan Wang, Shi-Qiang Zhang and Yan-Chun Wang</i>	
The Properties of FLOC and Its Application in Evoked Potential Latency Change Detection	1452
<i>Tianshuang Qiu, Yong Zhu, Saiyuan Zhao and Daifeng Zha</i>	
Coding Efficiency Improvement with Adaptive GOP Size Selection for H.264/SVC	1456
<i>Shinpei Matsuoka, Yoshitaka Morigami, Tian Song and Takashi Shimamoto</i>	
Head Detection and Tracking by Mean-Shift and Kalman Filter	1460
<i>Huchuan Lu, Ruijuan Zhang and Yen-Wei Chen</i>	
A New Audio Watermarking Method for Copyright Protection and Tampering Localization.....	1464
<i>Xiaohong Ma, Xin Li and Wenlong Liu</i>	
A Speech Separation Method Combining Time-Frequency Masking and Independent Component Analysis	1468
<i>Xiaohong Ma, Wenlong Liu, Fuliang Yin and Xiaohua Liu</i>	
Baseball Playfield Segmentation Using Adaptive Gaussian Mixture Models	1472
<i>Chung-Ming Kuo, Mao-Hsiung Hung and Chaur-Heh Hsieh</i>	
Detecting Human in Still Images by Learning Multi-Scale Mid-Level Features.....	1476
<i>Tianjiang Wang, Liyu Gong and Fang Liu</i>	
Retrieve Scalable Image Contents over Image Contents Network by Efficient Caching Algorithms	1480
<i>Zhou Su, Zhihua Zhang and Yu Chen</i>	
Knowledge Representation and Object Modeling Based on Design Space for Knowledge-Based Design Support Systems	1484
<i>Zhihua Zhang and Zhou Su</i>	
Enhancing Pie-Menu Selection with Pen Pressure.....	1488
<i>Xiangshi Ren, Jibin Yin, Tomoki Oya and Yuanning Liu</i>	
Attribute Division Algorithm Based on Entropy.....	1492
<i>Liyan Dong, Minghui Sun and Xiangshi Ren</i>	
Research on SIP and H.323 Protocol Conversion	1496
<i>Haiyang Si, Liyan Dong and Zhaojun Liu</i>	
A User-Friendly Web Content Management System.....	1500
<i>Ming-Ju Yang, Wen-Chung Chang, Win-Jet Luo, Shou-Ping Hsu, Kao-Feng Yarn, Tsung-Chan Cheng and Po-Chun Yang</i>	
Automatic Landing System Using Adaptive Resource Allocating Network	1506
<i>Jih-Gau Juang and Li-Hsiang Chien</i>	

Research on Xml Multi-Signature base on subtle granularity	1511
<i>Xi-Quan Yang, Xue-feng Chen, Bo Zhang</i>	
Automatic Selection of Fuzzy Models Based on User's Data	1515
<i>Lu Bai and Liya Ding</i>	
A Satisfactory-Oriented Approach to Multi-Evaluator Single-Layer Evaluation System with Linguistic Truth-Value	1519
<i>Dan Meng and Li Zou</i>	
Measurement of the Knowledge-Sharing Efficacy of Web2.0 Site Constructed on the Basis of Knowledge-Based Systems by Applying the Model of UTAUT: Evidence of the Early Adopters	1523
<i>Wen-Chang Fang, Ming-Way Li and Chih-Wei Liu</i>	
The Development of Children's Learning Software in Web3D Technology	1527
<i>Zhen Liu</i>	
Avoidance of Redundant Retransmission in Vertical Handover by Modified Stream Control Transmission Protocol	1531
<i>I-Cheng Lin, Chin-Shiuh Shieh and Wei Kuang Lai</i>	
Evaluating the Latency of Clients by Player Behaviors in Client-Server Based Network Games	1535
<i>Shaolong Li, Changja Chen and Lei Li</i>	
Ripple: Toward a Substrate Middleware for Peer-to-Peer Applications	1539
<i>Hong Yao, Linchen Yu, Hai Jin, Sirui Yang, Qi Huang and Wenjian Jiang</i>	
A Network Traffic Supervision System Based on Feature Parameters Distribution	1543
<i>Xin Du, Yingjie Yang and Xiaowen Kang</i>	
A Routing Based on Dynamic Tree Algorithm in WSNs	1547
<i>Xinchun Jiang and Yaping Deng</i>	
The Development of Monitoring Software for Local Area Network	1551
<i>Yuhua Qin</i>	
The Framed Pipeline Cyclic Service for Mixed-Media PON Access Networks	1555
<i>Jih-Hsin Ho and Wen-Shyang Hwang</i>	
Hybrid ARQ Based on Accumulated Reliabilities and Error Hamming Weights	1559
<i>Hsin-Kun Lai and Erl-Huei Lu</i>	
Spatial Stability of Content Response in File Sharing P2P Networks	1563
<i>Yuchun Guo and Changjia Chen</i>	
Modeling and Analysis Traffic Flows of Peer-to-Peer Application	1567
<i>Baogang Chen, Yong Xu, Jinlong Hu and Ling Zhang</i>	
Design and Research of a Large-Scale Network Access Control System with Hybrid Router Configuration	1571
<i>Wei Jiang, Bin-Xing Fang, Zhi-Hong Tian and Hong-Li Zhang</i>	
Drifting Clock Model for Network Simulation in Time Synchronization	1575
<i>Yujuan Quan and Guixiong Liu</i>	
New Multi-Modulus Algorithms for Blind Decision- Feedback Equalization of High-Order QAM Signals	1579
<i>Feng Liu, Lin-Dong Ge, Jia-Ming Li and Shi-Gang Liu</i>	
Wavelet Transform and Its Application to Laser Pulse Detection	1583
<i>Jun-Li Wan, Ping Xia and Xin-Qiong Liu</i>	

Intra Refreshment Algorithm for ROI over Packet Loss Networks	1587
<i>Ruolin Ruan, Ruimin Hu, Xuqing Xiao and Hao Chen</i>	
A New Shape Error Concealment Method	1591
<i>Xiang Fu and Bao-Long Guo</i>	
Image Fusion Based on Segmentation and Iterative Strategies	1595
<i>Liling Ge and Yingjie Zhang</i>	
On Nonuniform Sampling of Bandlimited Signals Associated with the Fractional Fourier Transform	1599
<i>George Kwamina Aggrey, Ran Tao, Bing-Zhao Li and Yue Wang</i>	
Down-Sampling Face Images and Low-Resolution Face Recognition	1603
<i>Yong Xu and Zhong Jin</i>	
A Wavelet-Domain Bayesian Image Enhancement Approach in Distributed Video Sensor Network	1607
<i>Jing Tian, Weiyu Yu and Shengli Xie</i>	
Adaptive Filter by Using Hartley Transform Extended Correlation LMS Algorithm in the Double-Talk Condition	1611
<i>Rui Chen, Zhifeng E, Mohammad Reza Asharif and Katsumi Yamashita</i>	
A Compression Algorithm of Hyperspectral Image Based on the Eight-Fork Tree Division and Three-Dimensional Fractal Coding	1615
<i>Wei Pan, Yi Zou, Lu Ao and Zhi-Zhan Liu</i>	
Characterizations of Prime Filter of Fuzzy Implication Algebra	1619
<i>Zhi-Wei Li</i>	
T-Fuzzy Subalgebras and T-Fuzzy Ideals of BCH-Algebras	1623
<i>Feng-Xiao Wang</i>	
Entropy of Intuitionistic Fuzzy Set Based on Similarity Measure	1627
<i>Wenyi Zeng, Xuanchuan Yu, Fusheng Yu and Baozhen Cui</i>	
Variable Precision Fuzzy Rough Set Model Based on Fuzzy Covering	1631
<i>Aiquan Zhang, Minghu Ha and Yijun Fan</i>	
Weighting Mining and Empirical Analyses on Region Sustainable Development Survival Supporting Systems	1635
<i>Chengyi Zhang and Hemei Qu</i>	
Detecting Irregularities by Image Contour Based on Fuzzy Neural Network	1639
<i>Jun Zhang and Zhijing Liu</i>	
Study on Intelligent Shift Control Strategy of Automobile Based on Genetic-Fuzzy Algorithm	1643
<i>Shijing Wu, Enyong Zhu, Qunli Li, Jing Xie and Xiao Peng</i>	
Elliptical Fuzzy Number and the Method of Circular Fuzzy Structured Element	1648
<i>Xudong Sun and Sizong Guo</i>	
An Underdetermined Blind Separation Algorithm Based on Fuzzy Clustering	1652
<i>Beihai Tan, Zuyuan Yang and Yuanjian Zhang</i>	
On the Number of Equivalent Classes of Fuzzy Subgroups of Finite Nilpotent Groups	1656
<i>Mingjuan Song, Yutie Feng and Guoliang Zhao</i>	
Meshfree Radial Point Interpolation Method and Its Application for Two-Dimensional Elastic Problem	1660
<i>Wenjing Zhang, Maohui Xia and Lechun Liu</i>	

Temperature Compensation for Gain of Avalanche Photodiode in Laser Gyro	1664
<i>Jun-Li Wan, Xian-Yong Wu and Yan-Qin Li</i>	
Shallow Parsing Based on Maximum Matching Method and Scoring Model	1668
<i>Mao-Sheng Zhong, Lei Liu and Ru-Zhan Lu</i>	
A New Algorithm for Solving Multiple Kernel Problem as SILP	1673
<i>Kan Li</i>	
Epsilon-Connections Based Ontology Integration Framework Design	1679
<i>Guan-Yu Li, Huan-Zhong Geng and Hong-Jun Liu</i>	
An Intelligence Processing Method Related to Efficacy Messages of Traditional Chinese Medicine Prescriptions	1683
<i>Tingge Ren, Quanquan Gao, Xiaofeng Liu, Fan Zhang and Yan Sun</i>	
New Approach for Rigid Body Guidance of Spherical Four-Bar Linkages.....	1687
<i>Shufen Wang, Delun Wang and Weiping Jia</i>	
Research on Telecommunication Switching System Survivability Based on Stochastic Petri Net.....	1691
<i>Tingjun Shi, Jinfeng Zhao, Xinchun Yin and Jiajia Wang</i>	
Attributes in Representation of Adjectival Modification in Chinese and Their Extraction from a Machine Readable Dictionary	1696
<i>Xuening Li, Ruzhan Lu and Yi Hu</i>	
Research Classification of Printing Fault Based on RSVM.....	N/A
<i>Ya-Li Qi, Ye-Li Li, Liu-Ping Feng and Hou Shu</i>	
The Design and Artificiality of Tracking Synchronization Controller in Chaotic Systems with Diverse Structures	1700
<i>Ling Lu and Ling Luan</i>	
Stabilization Control of Double Inverted Pendulum System	1704
<i>Qing-Rui Li, Wen-Hua Tao, Na Sun, Chong-Yang Zhang and Ling-Hong Yao</i>	
The Multi-Objective Optimal Control for Electronic Hydraulic Pressure Servo System	1708
<i>Wei Wang and Qing Hu</i>	
Robust Stabilization for a Class of Neutral Systems with Time-Varying Delays via Delta Operators	1712
<i>Jiqing Qiu, Jing Chen, Li Li and Yanjun Wang</i>	
Delay-Dependent Stability and Robust H Infinity Control for Discrete-Time Markovian Jump Linear Systems with Mode-Dependent Delays.....	1716
<i>Xiuming Yao, Changhong Wang and Fu Zhao</i>	
Stability of Model-Based Networked Control System with Quantized Feedback	1720
<i>Zhiwen Wang, Wei Pan and Ge Guo</i>	
Robust Adaptive Control for Robot Manipulators with Friction	1726
<i>Cheng-Yi Chen, M. Hung-Ming Cheng, Cheng-Fu Yang and Jeng-Shi Chen</i>	
Adaptive Feedback Control for a Class of Uncertain Nonlinear Systems with Dead-Zone	1731
<i>Mou Chen, Rong Mei and Wen-Hua Chen</i>	
Stability Analysis of a New Delays Dependent System	1735
<i>Jie Chen and Zhong-Ke Shi</i>	
Modeling and Simulation of Telescopic Damper Outer Characteristic	1739
<i>Changcheng Zhou and Jie Meng</i>	
Inverted Pendulum System Control by Using Modified PID Neural Network.....	1743
<i>Shouju Li, Chenfang Huo and Yingxi Liu</i>	

The Neural Network Control Technique in Matching-Stuff System of Nucleus Steelyard	1747
<i>Ye Tian</i>	
Parameter Identification of Vibration Loads of Hydro Generator Using Neural Networks.....	1750
<i>Lijuan Cao, Shouju Li and Zichang Shangguan</i>	
New Global Asymptotic Stability for Neural Networks with Time-Varying Discrete and Distributed Delays	1754
<i>Yonggang Chen, Yunrui Guo and Liang Wu</i>	
Fault Diagnose Technology of Power Electronic Based on Neural Network	1758
<i>Qing Hu, Rongjie Wang and Yiju Zhan</i>	
Neural Network Application to Multi-Step Prediction for Generalized Heave Displacement of Shipborne Helicopter Platform.....	1762
<i>Dong Wei, Jiawei Ye, Xilong Zhang, Xi Wu and Lidong Liang</i>	
Research on Jet Loom Data Analysis System Based on Neural Networks.....	1766
<i>Xuning Liu, Ming Zhao and Shuang Li</i>	
Research on Fan Machinery Fault Diagnosis System Based on Fusional Neural Network.....	1771
<i>Kaiyong Yan and Kuisheng Chen</i>	
Contour Extraction by a Neural Network Approximation.....	1775
<i>Zhiheng Zhou and Delu Zeng</i>	
The Fault Diagnosis System with Self-Repair Function for Screw Oil Pump Based on Fuzzy Neural Network.....	1779
<i>Meijuan Gao, Jingwen Tian, Liting Cao and Fan Zhang</i>	
3D Stereo Imaging Technology From 2D Image Sequence	1783
<i>Fang-Hsuan Cheng, Chien-Chih Chen</i>	
Application of Information Measure in Segmentation of Hydrophobicity of Insulators.....	1787
<i>Bing Qi, Liang-Rui Tang and Jing Zhang</i>	
Prediction-Based Asymmetric Pattern Search Algorithm for Fast Block-Matching Motion Estimation.....	1791
<i>Chung-Ming Kuo, Nai-Chung Yang, Yu-Hsin Kuan and Yi-Hui Lee</i>	
Vehicle Speed Measurement Based on Video Images	1795
<i>Yucheng Li, Liang Yin, Yan Jia and Mushu Wang</i>	
A Covert Communication Scheme for a SPIHT Based Image Multiple Description Coding System	1799
<i>Chuang Lin, Jeng-Shyang Pan and Kuang-Chih Huang</i>	
A New Image Fusion Scheme Based on Wavelet Transform	1803
<i>Jingmin Gao, Zhenhui Liu and Tao Ren</i>	
On-line Vision Recognition of Auto Rack Girders Based on ART2 Neural Network and D-S Evidence Theory.....	1807
<i>Hua Wang, Longshan Wang, Jingang Gao and Shuang Zhang</i>	
Autonomous Craters Detection from Planetary Image	1811
<i>Meng Ding, Yun-Feng Cao and Qing-Xian Wu</i>	
A Modified RHT Method for Ellipse Detection Based on Geometric Constraints and Perceptual Grouping.....	1816
<i>Haibin Yu, Jingbiao Liu and Zhiwei He</i>	
The Extraction of Playing Shots in Sport Videos	1820
<i>Qing Lang, Chao Liu, Wei Shen and Lifang Wu</i>	

Algorithm for Underdetermined Blind Source Separation Based on Least-Mean-Square Error and Sparse Features	1824
<i>Shuzhong Bai, Ju Liu and Guoxia Sun</i>	
Research on the Simulation Platform and Technology for Multi-Sensor Data Fusion	1828
<i>Yanmei Lv, Jiangsheng Sun and Gefang Wang</i>	
Sound Radiation from Finite FGM Cylindrical Shell Excited by a Rotating Load	1832
<i>Bu-Qing Xu</i>	
A Spectrum Effective Adaptive Modulation and Coding Scheme for OFDM System	1836
<i>Xiufeng Zhang, Shengye Huang, Suli Feng and Wu Ye</i>	
An Efficient Algorithm for Computing $4^M \times 24$-Point DFT	1841
<i>Haijun Li, Bin Wang and Xiaohui Chen</i>	
Encoding and Decoding of LT Codes Based on Chaos	1845
<i>Qian Zhou, Liang Li, Zeng-Qiang Chen and Jia-Xiang Zhao</i>	
Blind Source Separation Based on Signal Temporal Predictability	1849
<i>Zuyuan Yang, Guoxu Zhou, Jinlong Zhang and Yuanjian Zhang</i>	
Measurement of Harmonics and Inter-Harmonics Based on DWFFT	1853
<i>Jiang Qiang, Xiao Jian, Zheng Gao and Jiang Wei</i>	
Automatic Pronunciation Evaluation Based on Feature Extraction and Combination	1857
<i>Shuang Xu, Dengfeng Ke, Jie Jiang, Xi Yang, Hongyan Li and Bo Xu</i>	
A Pitch Estimation Algorithm Based on the Variance Analysis	1861
<i>Xiaopeng Wei, Lasheng Zhao, Qiang Zhang and Jing Dong</i>	
The Novel Seismic Wavelet Estimation Based on ARMA Model and Chaos Genetic Algorithm	1865
<i>Yongshou Dai, Junling Wang, Weiwei Wang and Shaoshui Wang</i>	
Common Spatial Pattern and Particle Swarm Optimization for Channel Selection in BCI	1869
<i>Jun Lv and Meichun Liu</i>	
Study on Convergent Fuzzy Particle Swarm Optimization and Performance Analysis	1873
<i>Xuelei Meng and Limin Jia</i>	
A Surface-Based DNA Algorithm for the 0-1 Programming Problem	1877
<i>Ping Guo and Lili Liu</i>	
Software Evolution with Feature-Oriented and Aspect-Oriented Programming	1881
<i>Jian-Hui Wang and Chun-Zhang Bai</i>	
Dynamic Diversity Control in Genetic Algorithm for Extended Exploration of Solution Space in Multi-Objective TSP	1885
<i>Pei-Chann Chang, Wei-Hsiu Huang, Ching-Jung Ting and Chin-Yuan Fan</i>	
An Improved Gene Expression Programming(GEP) Algorithm Based on Classification	1889
<i>Yong Wu, Chun-Nian Zeng, Zhang-Can Huang and Zong-Yue Wang</i>	
A Dynamic Byte Encoding Genetic Algorithm for Numerical Optimization	1894
<i>Xianyue Gang, Hongyan Li and Shufeng Wang</i>	
An Ant Colony Algorithm with Stochastic Local Search for the VRP	1898
<i>Chengming Qi</i>	
Pareto and Niche Genetic Algorithm for Storage Location Assignment Optimization Problem	1902
<i>Meijuan Li, Xuebo Chen and Chenqi Liu</i>	

Simulation and Experiment Research on Hydraulic Control System of Coal Harrow of Material Piling and Taking Machine	1906
<i>Longhai Li and Guang-Zhong Ji</i>	
Orbital and Attitude Cooperative Control of Fly-Around Small Satellite	1912
<i>Zhan-Xia Zhu and Jia Yang</i>	
Operator Based Robust Control for MIMO Nonlinear Systems	1916
<i>Mingcong Deng, Shuhui Bi and Akira Inoue</i>	
Robust Fault Estimation for Uncertain Networked Control Systems with Random Time-Delays	1920
<i>Dan Huang and Sing Kiong Nguang</i>	
Adaptive Fuzzy CMAC Control for Nonlinear Systems	1924
<i>Jen-Yang Chen and Haw-Yun Shin</i>	
Adaptation-Based Reconfiguration in the Presence of Actuator Faults with Non-Measurable Rates	1928
<i>Yuying Guo, Bin Jiang and Youmin Zhang</i>	
Vision-Based Predictive Path Tracking Control of a Wheeled Mobile Robot	1934
<i>Jui-Liang Yang, Ding-Tsair Su and Ying-Shing Shiao</i>	
Elevator Group Control System Based on Information Fusion Technology	1938
<i>Liting Cao, Jingwen Tian and Zhaoli Zhang</i>	
The Modeling and Simulation of a Class of Hyperchaos	1942
<i>Wenjuan Wu, Zengqiang Chen and Zhuzhi Yuan</i>	
Temperature Distribution Control in Blast Furnace by RNN	1946
<i>Yingda Dai, Masami Konishi and Jun Imai</i>	
The Method of Inner-Point of the Interface for a Linear Programming	1950
<i>Ping Liang, Yanhua Sun, Haimin Lei and Xiangbin Zhang</i>	
A Systemic Approach towards Recreating a Unified Semantics of Numbers	1954
<i>Yucong Duan</i>	
The Nonlinear matrix Equation $X_m = A$ and its Applications to Graph Theory	1958
<i>Yuan-Yuan Li and Yu Li</i>	
Finite Element Analysis of Two-Dimensional Metal Cutting Process	1961
<i>Chong Su, Jun-Ming Hou, Li-Da Zhu and Wan-Shan Wang</i>	
The Beneficial Analysis Between the Four Test Equating Strategies of Separate Estimate and Concurrent Equating Estimate	1965
<i>Shin-Feng Chen and Yuan-Horng Lin</i>	
A DSP-Based Active Power Filter Rooted on Energy Balance Concept	1969
<i>Ding-Tsair Su, Jui-Liang Yang and Ying-Shing Shiao</i>	
Proposal of Group Decision Support System Using SOM for Purchase of Automobiles	1973
<i>Iori Nakaoka, Jun-Ichi Kushida and Katsuari Kamei</i>	
Using Two-Stage Method to Solve 1.5-Dimensional Cutting Stock Problem	1977
<i>Li-Qun Zheng, Hui Xiong and Da-Wei Li</i>	
Quadrupedal Gait Generation Based on Human Feeling for Robot Assisted Therapy	1981
<i>Hidekazu Suzuki and Hitoshi Nishi</i>	
A Development of View_Aid System for Low-Vision	1985
<i>Yoshifumi Oyama and Tatsuya Tokumaru</i>	

Modeling Fuzzy Belief with Plausibility Degree in Intelligent Systems	1989
<i>Xianwei Lai, Shanli Hu, Zhengyuan Ning, Xiuli Wang and Linxiang Jian</i>	
Dynamic Analysis and Model Transformations of Longitudinal Flight of Hypersonic Aircrafts	1993
<i>Dianwei Qian, Jianqiang Yi, Dongbin Zhao and Hua Xiong</i>	
The Connection of Bi-Cubic T-Bezier Surfaces and its Modeling Application	1997
<i>Jian Huang, Zhong Li and Jueliang Hu</i>	
Modeling of a Rope-Driven Self-Levelling Crane	2001
<i>Jianhong Zhang, Dongbin Zhao, Jianqiang Yi and Yi Yu</i>	
Uncertainty Modeling and Robustness Analysis of Flight Control Using μ-Analysis Techniques	2005
<i>Xingfeng Zhao and Zhiqiang Zheng</i>	
The Application of Levy Process with Stochastic Interest Rate in Structural Model	2009
<i>Shih-Kuei Lin and Te-Cheng Lin</i>	
Midpoint Validation Method for Support Vector Machine with Margin Adjustment Technique	2013
<i>Hiroki Tamura and Koichi Tanno</i>	
A Model and Algorithm for Minimum Spanning Tree Problems in Uncertain Networks	2017
<i>Fangguo He and Huan Qi</i>	
Adaptive MCMC Particle Filter for Nonlinear and Non-Gaussian State Estimation	2021
<i>Fujun Pei, Pingyuan Cui and Yangzhou Chen</i>	
Evolution of Task Switching Behaviors in Real Mobile Robots	2026
<i>Genci Capi, Genci Pojani and Shin-Ichiro Kaneko</i>	
Multirate Input Control for Fuzzy Systems Based on Disk-Pole Placement	2030
<i>Lin Jiang, Jian Xiao, Cong Zhou and Jinlin Gong</i>	
Rough Vague Sets Based on General Binary Relation and Its Method of Similarity Measures	2034
<i>Qinpeng Cai and Shengquan Ma</i>	
Variable Precision Rough Set Model in Incomplete Ordered Decision System	2038
<i>Xia Zhao, Minghu Ha and Aiquan Zhang</i>	
Method Based on Triangular Fuzzy Number for Multi-Sensor Object Recognition	2042
<i>Shuping Wan</i>	
A New Fuzzy Logic Torque Control Scheme Based on Vector Control and Direct Torque Control for Induction Machine	2046
<i>Zhijun Jiang, Shimiao Hu and Wenhui Cao</i>	
Robustly Stochastic Stability Criteria for Takagi-Sugeno Fuzzy Markov Jump System	2050
<i>Junwei Wang and Yuesheng Luo</i>	
Fuzzy Controller Design Subject to Input Constraint	2054
<i>Hugang Han and Bo Mo</i>	
Experimental Implementations of Adaptive Self-Organizing Fuzzy Slide Mode Control to a 3-DOF Rehabilitation Robot	2058
<i>Ming-Kun Chang and Tsan-Hsiu Yuan</i>	
On a Rough Set with Fuzzy Weights in Well-Balanced Menu Planning System	2062
<i>Tomoko Kashima, Hugang Han, Shimpei Matsumoto and Hiroaki Ishii</i>	

Study on Approaching Precision to Standard Fuzzy Systems with Two Different Basic Functions	2066
<i>Chen Gang</i>	
Stability Analysis of a Class of Discrete Switched Fuzzy Systems	2073
<i>Hong Yang, Xinlai Dai and Xiaodong Liu</i>	
Developing a Practical Car Search System Using Fuzzy Theory	2077
<i>Takashi Samatsu, Kie Tachikawa and Yan Shi</i>	
Interval Type-2 Fuzzy Neural Network Controller (IT2FNNC) and Its Application to a Coupled-Tank Liquid-Level Control System	2081
<i>Chengdong Li, Jianqiang Yi and Dongbin Zhao</i>	
Local Positioning with Artificial Neural Network and Time of Arrival Technique	2085
<i>Hui Zhu, Bo Huang, Yuji Tanabe and Takaaki Baba</i>	
Hybrid CPM/CAM Physiotherapy by Use of the Slide-Mode Fuzzy Neural Network Control	2089
<i>Hong-Jung Ho and Tien-Chi Chen</i>	
Automatic Detection of GGO Candidate Regions by Using Artificial Neural Networks from Thoracic MDCT Images	2093
<i>Yoshifumi Katsumata, Yoshinori Itai, Hyoungseop Kim, Joo Kooi Tan and Seiji Ishikawa</i>	
Direct Stable Adaptive Fuzzy Neural Model Reference Control of a Class of Nonlinear Systems	2098
<i>Mojtaba Ahmadiéh Khanesar and Mohammad Teshnehlab</i>	
The Research of Dynamic Change Learning Rate Strategy in BP Neural Network and Application in Network Intrusion Detection	2102
<i>Guangjun Song, Jialin Zhang and Zhenlong Sun</i>	
Establish Credit Rating System and Apply Back-Propagation Network for Forecasting Insurance Companies	2106
<i>David Shyu, Chia-Chien Chang and Tsung-Li Chi</i>	
Combination of Wavelet Packet Analysis with BPNN Flaw Type Identification in Concrete Ultrasonic Testing	2110
<i>Lixin Zhang, Huijian Li and Baifeng Gao</i>	
Research on the Cooperative Quick-Response Fire Control System	2114
<i>Chengqiang Li, Qingying Zhang and Feng Ma</i>	
Interaction and Controller Selection in Decentralized Control of TITO Systems: IMC Based PI/PID Approach	2118
<i>R. Vilanova and P. Balaguer</i>	
Sliding Mode Control for a Class of Stochastic Systems with Time-Varying Delay	2122
<i>Hailong Xing, Donghai Li and Xiaozhu Zhong</i>	
A Design Method for Smith Predictor for Non-Minimum-Phase Time-Delay Plants with Multiple Time-Delays	2127
<i>Kou Yamada, Hiroshi Takenaga, Hideharu Yamamoto and Kazuki Kamata</i>	
A Hybrid Neural-PID Control Scheme for Adaptive Visual Tracking	2131
<i>Qingjiu Huang, Nan Li, Liucun Zhu and Yichiro Hagiwara</i>	
The Control System between Transformer Tester and Host Computer Based on VC++ and MFC	2135
<i>Chao Li, Shunbin Hu, Kai Zhang, Jinfang Li and Yuntao Zhao</i>	
A Design Method of Simple Multi-Period Repetitive Controllers for Time-Delay Plants	2139
<i>Kou Yamada, Nan Li, Masahiko Kobayashi and Hiroshi Takenaga</i>	

Optimal Design of a Closed-loop Control Compliant Microgripper	2143
<i>Shyh-Chour Huang, Dain-Yong Lin</i>	
A Power Quality Disturbance Classification Method Based on Park Transform and Clarke Transform Analysis.....	2147
<i>Hao Liu, Yi Tang, Yu Feng and Xinghe Ma</i>	
Speaker Recognition Based on LS-SVM	2153
<i>Zhiping Dan, Sheng Zheng, Shuifa Sun and Ren Dong</i>	
Tactile Sensor Array Signal and Data Processing Based on Information Fusion	2157
<i>Bing Guo, Lan Qin, Jun Liu and Zhihui Liu</i>	
Separating Reflection Components of Smooth Metallic Surface Using Special Random Sampling Method	2161
<i>Shiqing Ren and Yan Wang</i>	
Optimization of Tone Recognition via Applying Linear Discriminant Analysis in Feature Extraction	2165
<i>Dengfeng Ke, Shuang Xu and Bo Xu</i>	
Noise Removal Based on Fourth Order Partial Differential Equation.....	2169
<i>Zhifeng Wang, Yandong Tang and Yingkui Du</i>	
Comparison between Weighted D-KNN and Other Classifiers for Music Emotion Recognition	2173
<i>Tsang-Long Pao, Yun-Maw Cheng, Jun-Heng Yeh, Yu-Te Chen, Chen-Yu Pai and Yao-Wei Tsai</i>	
Instrumentation Model and Data Processing of Tire Dynamic Balance Using Multi-Sensors.....	2177
<i>Bailin Hang and Lianming Sun</i>	
Enhancement of Hybrid Concatenated Codes Using A Modified Log-MAP Algorithm	2181
<i>Ya-Cheng Lu and Erl-Huei Lu</i>	
Low-Latency Turbo Decoder Design by Concurrent Decoding of Component Codes	2185
<i>Ya-Cheng Lu, Tso-Cho Chen and Erl-Huei Lu</i>	
A Modified LMS Algorithm with Turbo-Like Scheme.....	2189
<i>Qian Liu, Minglu Jin and Aifei Liu</i>	
Sidelobe Suppression of Phase-Coded Radar Based on the Accurate Signal Estimate.....	2193
<i>Hankang Wang, Hong Gu, Weimin Su and Jianfei Wang</i>	
A Novel Real-Time Commercial Detection Scheme	2197
<i>Xiang Wang and Zongming Guo</i>	
The Study and Analysis of Video Coding Algorithm at Low Bit Rates.....	2201
<i>Jun-You Zhang and Shu-Feng Wang</i>	
A New Appearance-Based Facial Expression Recognition System with Expression Transition Matrices.....	2205
<i>Cheng-Chang Lien, Lin-Yi Lin and Cho-Ming Tu</i>	
Fusing 2DKPCA and 2D(PC)²A for Image Matrix Based Face Recognition with One Training Sample Per Person	2209
<i>Jun-Bao Li, Shu-Chuan Chu and Jeng-Shyang Pan</i>	
Image Segmentation Based on Inhomogeneous Markov Random Field and Dirichlet Process Mixture.....	2214
<i>Xiaobo Chen, Xianyi Cheng and Jun Liang</i>	
A Multi Modal Image Registration Method by Use of Optimal Retrieval on the VOIs.....	2218
<i>Yutaro Yamamura, Hyoungseop Kim and Joo Kooi Tan</i>	

A Covert Communication Scheme for the DWT and Data Partitioning Based Image Multiple Description Coding System	2222
<i>Chuang Lin, Jeng-Shyang Pan and Kuang-Chih Huang</i>	
Content Representation of Video Sequences Based on Salient Region	2226
<i>Cong-Yan Lang, De Xu and Ning Li</i>	
Gray Image Compression Using New Hierarchical Self-Organizing Map Technique	2230
<i>Cheng-Fa Tsai, Chen-An Jhuang and Chih-Wei Liu</i>	
ST-ACO: Image Compression Using a New Adaptive Self-Organizing Tree Approach	2234
<i>Cheng-Fa Tsai and Chao-Cheng Yang</i>	
Feature Extraction for Face Image Retrieval	2238
<i>Paul C. Conilione and Dianhui Wang</i>	
Associating Information Literacy with Regulating Rules in Family by Data Mining	2242
<i>Chia-Chia Lin and Dong-Her Shih</i>	
Mining Frequent Patterns Based on IFP_Stream over Data Stream	2246
<i>Jia-Dong Ren and Yi-Lin Wang</i>	
Evolving Sequential Patterns Mining Model over Click Stream with Levenshtein-Automata	2250
<i>Haifeng Li and Hong Chen</i>	
Employment Factor Correlation Analysis Using Self-Organizing Data Mining Based on GMDH Principle	2254
<i>Nan Li and Yan Chen</i>	
Fuzzy Ontology Model and Its Application in Semantic Web Service Description and Discovery	2258
<i>Lei Liu, Zhijian Wang and Jianhong Chen</i>	
On Sequential Parameter Estimation Problem of Nonlinear Discrete-Time Stochastic Systems	2262
<i>Anna A. Malyarenko and Vyacheslav A. Vasiliev</i>	
A Quantification of Students' Coding Style Utilizing HMM-Based Coding Models for In-Class Source Code Plagiarism Detection	2266
<i>Asako Ohno and Hajime Murao</i>	
A Approach for Text Classification Feature Dimensionality Reduction and Rule Generation on Rough Set	2270
<i>Shiqun Yin, Zhixing Huang, Lu Chen and Yuhui Qiu</i>	
Model Learning and Variance Control in Continuous EDAs Using PCA	2274
<i>Jun Liu and Hong-Fei Teng</i>	
An ID-Based Blind Multisignature Scheme	2278
<i>Tao Meng, Xinpeng Zhang, Longjiang Yu and Shenghe Sun</i>	
A Disaster-Oriented Strong Secure File System	2281
<i>Xiaowen Kang, Yingjie Yang and Xin Du</i>	
Exploiting OLP, ILP and TLP of RCBCP	2285
<i>Tao Meng, Zibin Dai, Qiao Ren and Xuerong Yu</i>	
Information Security Investment Game with Penalty Parameter	2289
<i>Wei Sun, Xiangwei Kong, Dequan He and Xingang You</i>	
A Compound Video Encryption Algorithm Based on Hyperchaos	2293
<i>Shuhui Chen, Zengqiang Chen and Zhuzhi Yuan</i>	

Video Compression and Encryption Based-On Multiple Chaotic System	2297
<i>Qinchun Qian, Zengqiang Chen and Zhuzhi Yuan</i>	
Automatic Design Approach of Security Protocols Based on Evolutionary Computation	2301
<i>Ya-Jie Zhou, Juan Wang and Jing-Wei Zhang</i>	
Analysis of the Reasons Why Invisible Web Can't Be Seen and its Effective Retrieval Strategies	2305
<i>Xia Zhang, Mingzhang Zuo and Qiang Liu</i>	
Detection of Network Attack and Intrusion Using PCA-ICA	2309
<i>Hong-Chi Shih, Jiun-Huei Ho, Chih-Ping Chang, Jeng-Shyang Pan, Bin-Yih Liao and Te-Hui Kuo</i>	
(alpha, t) - Resolution Principle Based on Lattice-Valued Tense Propositional Logic LTP(X)	2313
<i>Wenjiang Li, Xin Liu and Li Zou</i>	
Low-Power Double Edge-Triggered Flip-Flop Circuit Design	2318
<i>Chien-Cheng Yu</i>	
Research and Application of Middleware Technique in Heterogeneous System and Interoperability Environment	2323
<i>Kebin Jia and Pengyu Liu</i>	
Optimal Design of a Parallel-Connected SC DC-DC Converter with Fluctuation of On-Resistances	2327
<i>Kei Eguchi and Hongbing Zhu</i>	
Plagiarism Detection Using the Levenshtein Distance and Smith-Waterman Algorithm	2331
<i>Zhan Su, Byung-Ryul Ahn, Ki-Yol Eom, Min-Koo Kang, Jin-Pyung Kim and Moon-Kyun Kim</i>	
Gender Differences in Cyberlearning	2335
<i>Tzong-Song Wang and Din Jong</i>	
A CMOS Current Mirror with Enhanced Input Dynamic Range	2339
<i>Ying-Chuan Liu, Hung-Yu Wang, Yuan-Long Jeang and Yu-Wei Huang</i>	
Study of Disaster Information Extraction using C/L-Band SAR Interferometry	2343
<i>Atsushi Iwashita, Hisatoshi Baba, Toshikazu Morohoshi, Satche Iso, Masanao Hara, Yu-Feng Lin and Wen-Qing Jaung</i>	
A Study in Brain Enhancement by Voice Separation Training	2347
<i>Di Miao and Shuoyu Wang</i>	
Multiple Reciprocity Method for Buckling Eigenvalue Problem and Its Convergence Analysis	2351
<i>Yumin Xu, Fengxia Zeng, Yiming Chen, Rao Li and Wanshuai Zhao</i>	
The Existence and Uniqueness of the Solution for a Kind of Second Order Elliptic Differential Equation of Variable Coefficient	2355
<i>Yiming Chen, Rao Li, Fengxia Zeng and Wanshuai Zhao</i>	
Retrospect and Prospect on the Network-Based English Language Teaching and Learning in China	2359
<i>Aiping Zheng, Nini Qu and Jianzhong Luo</i>	
Thermal Conductivity of Frost Formation Theoretical Analysis and Numerical Method	2363
<i>Xianghong Gu</i>	
Modeling Hysteresis of the Piezoactuators with Prandtl-Ishlinskii Model	2367
<i>Van-Tsai Liu and Chia-Hsiang Li</i>	

Reliability Assessment of Power Systems Based on Element Time Sequential by Bayesian Networks	2371
<i>Jie Hu, Limin Huo, Lirui Guo, Jinliang Yin and Yunfang Xie</i>	
Algorithm and Implementation of Direct Closed-Loop Identification via Output Over-Sampling Scheme	2375
<i>Lianming Sun and Akira Sano</i>	
FE-Based Physical Model of LPMBDCM for Integrated Motor Drive System Analysis	2379
<i>Lizhan Zeng, Xuedong Chen, Xianpeng Nong and Xiaogang San</i>	
Virtual Tree Model Based on Environment Influence and Its Application	2384
<i>Tian-Yang Dong, Jing Fan and Xin-Pei Zhang</i>	
Using Partial Zero Subspace in Deterministic Blind Channel Identification	2388
<i>Caiyun Chen and Min Zhao</i>	
Infinite-Horizon Policy-Gradient Estimation with Variable Discount Factor for Markov Decision Process	2392
<i>Bing-Kun Bao, Bao-Qun Yin and Hong-Sheng Xi</i>	
Modeling of Water Displacing Oil Physical Simulation Based on Radial Basic Function Network	2396
<i>Jingwen Tian, Meijuan Gao, Shiru Zhou and Fan Zhang</i>	
Parameter Estimation in an Autoregression Model with Infinite Variance	2400
<i>Markov Alexandr</i>	
Discrete Formulations of the BIE without Singularity for the Elastic FM-BEM	2402
<i>Yingjie Chen, Jianping Liu, Yiming Chen, Yong Li and Silin Bai</i>	
Decision Fusion Mechanism of Oceanic Sensor Networks Based on Fading Acoustic Communication Channel	2405
<i>Wen-Yu Cai, Jing-Biao Liu and Meiyang Zhang</i>	
PBADAaPCo: An Efficient Algorithm Based on Improved Edge Weighted Voronoi Diagram to Detect and Make-Up Potential Blind Areas in Wireless Sensor Network	2409
<i>Xiaoli Yue, Jing Yu and Meng Zhao</i>	
An Optimal Sensor Localization Technology for WSN	2413
<i>Xiaoyan Chen and Shijue Zheng</i>	
Remote Real Time Automatic Meter Reading System Based on Wireless Sensor Networks	2417
<i>Liting Cao, Jingwen Tian and Yanxia Liu</i>	
Monitoring Diffusible Event with Point-Sensing Sensors	2421
<i>Weifang Cheng, Xiangke Liao, Changxiang Shen, Shaoliang Peng and Shanshan Li</i>	
Spatial Data Correlation Based Clustering Algorithms for Wireless Sensor Networks	2425
<i>Chongqing Zhang, Binguo Wang, Sheng Fang and Jiye Zheng</i>	
Inside Attacker Detection in Hierarchical Wireless Sensor Network	2429
<i>Yi-Ying Zhang, Wen-Cheng Yang, Kee-Bum Kim and Myong-Soon Park</i>	
Applying Investment Satisfied Capability Index and Particle Swarm Optimization to Construct the Stocks Portfolio	2433
<i>Jui-Fang Chang, Jung-Fang Chen and Shu-Hui Lin</i>	
Parameter Optimization of Job Scheduler Based on NQS Simulator	2438
<i>Rika Ito</i>	
A Critique of the Revised Central City Activation Law of the Optimal Portfolio Model	2442
<i>Toshihiko Gima</i>	

The Relationship between Money Supply and Stock Prices	2446
<i>Ming-Way Li and Pi-Chu Wu</i>	
Research on Improved EDF Scheduling Algorithm Based on Error	2450
<i>Bo Chen, Xueping Zhang and Chaoming Meng</i>	
Study on Risk Evaluation Intelligent Decision Support System of Urban Gas Pipeline	2453
<i>Jun'e Liu and Xin Wang</i>	
Extension Genetic Algorithm and Its Applications	2458
<i>Meng-Hui Wang, Yi-Feng Tseng, Hong-Cheng Chen and Kuei-Hsiang Chao</i>	
Adaptable Evolutionary Particle Swarm Optimization	2462
<i>Muhammad Rashid and A. Rauf Baig</i>	
Adaptive Genetic Algorithm Based Optimal PID Controller Design of an Active Magnetic Bearing System	2466
<i>Hung-Cheng Chen</i>	
Research on the Fuzzy Genetic Algorithm Based on Level Characteristics	2474
<i>Zhanjing Wang, Chenxia Jin and Fachao Li</i>	
Author Index	