

Second International Conference on Innovative Computing, Information and Control

(ICICIC 2007)

**Kumamoto, Japan
5 – 7 September 2007**

Pages 1-627



IEEE Catalog Number: CFP0766A-PRT
ISBN: 978-1-4244-3180-9

TABLE OF CONTENTS

Characteristics of Human Speed Sensation for Flying-Ball Pictures	1
<i>Ryou Morita, Kazuhiro Koshi, Hiroaki Koga</i>	
Detecting Changes of Affects by Accelerated Plethysmogram.....	5
<i>Tsuneo Kuwabara, Mitsuharu Amemiya</i>	
Character Selection with Sympathetic Skin Response When Listening to Sounds	9
<i>Fumihiko Masuda, Chikamune Wada</i>	
Measurement and Quantitative Analysis of the Human Visual Interpolation Ability for Partially Erased Objects.....	13
<i>Yinlai Jiang, Shuoyu Wang</i>	
Influence of the Sensation of Vibration on Perception and Sensibility while Listening to Music	17
<i>Tsuyoshi Ideguchi, Masato Muranaka</i>	
Moving Picture Creation Based on Physical and Kansei Information of Music	21
<i>Kazuhiro Koshi, Arisa Mikami, Hiroaki Koga</i>	
Human-Centered Intelligent Transport System ASSIST	25
<i>Masaki Hayashi, Asami Nishioka, Kazuaki Goshi, Katsuya Matsunaga</i>	
Development of Pen-Based Note-Taking System for Blind People	29
<i>Kazuyuki Ito, Kazuyuki Itoh, Kimiyasu Kiyota, Nobuo Ezaki</i>	
Face Recognition Based on Dominant Frequency Features and Multiresolution Metric	33
<i>I Gede Pasek Suta Wijaya, Keiichi Uchimura, Zhencheng Hu</i>	
A Bank of Kalman Filters and a Robust Kalman Filter Applied in Fault Diagnosis of Aircraft Engine Sensor/Actuator	37
<i>Wei Xue, Ying-qing Guo, Xiao-dong Zhang</i>	
A Master-Slave Neural Network for Precise Diagnosis of Large Rotating Machinery.....	41
<i>Xiao-dong Zhang</i>	
Research on Spin Rocket Double-Channel Proportional Control Characteristics	45
<i>Bo Mo, En-yu Gao, Shu-xing Yang</i>	
Self-Enhanced SVM Extraction of Building Objects from High Resolution Satellite Images.....	49
<i>Qian-jin Zhang, Lei Guo</i>	
A Study on Particle Fuzzy Reasoning Method	53
<i>Manabu Shimakawa</i>	
T-S Fuzzy Controller in Consideration of Input Constraint.....	57
<i>Hugang Han</i>	
Design of Wireless Data Communication System Based on PTR8000	62
<i>Jianguo Wang, Yun Bai, Xiuyu Zhang</i>	
Design and Development of Knowware System	66
<i>Liya Ding</i>	
VM-Based Benchmark and Analysis System for Testing Online Transaction Processing	71
<i>Maria Luisa Catalan, Dennis Arturo Ludeña Romaña, Hidenori Umeno</i>	
Policy Evaluation Based on Embodiment for Robot Learning by Multiple Demonstrations.....	75
<i>Daisuke Katagami, Masato Kotake, Katsumi Nitta</i>	
Animal Gait Generation for Quadrupedal Robot	79
<i>Hidekazu Suzuki, Hitoshi Nishi, Atsushi Aburadani, Seiichi Inoue</i>	

An Intelligent Artifact as a Cohabitant: An Analysis of a Home Robot's Conversation Log	83
<i>Naoko Matsumoto, Tatsuya Yamazaki, Akitoshi Tokosumi, Hirotada Ueda</i>	
Service Robot System in a Store Using Personal Attribute.....	89
<i>Kota Nakamura, Yoshiharu Yoshida, Toru Yamaguchi, Eri Sato</i>	
Behavior Evolution of Pet Robots with Human Interaction.....	93
<i>Hiroyuki Inoue, Hifumi Miyagoshi</i>	
Model-Based and Non-Model-Based Velocity Estimators and Its Application to Mobile Robots.....	97
<i>Shuhei Wada, Haruo Suemitsu, Takami Matsuo</i>	
Based on Mobile Device Multi-Biped Robot Monitor and Coordinated Control.....	101
<i>Rui Zhong, Dong-ying Ju</i>	
Sensor Data Fusion in Autonomous Robotics.....	105
<i>Ö. Ciftcioglu, M.S. Bittermann, I.S. Sarayildiz</i>	
Phased Compliance Control With Virtual Force for Six-Legged Walking Robot	111
<i>Qingjiu Huang, Kazumichi Oka</i>	
Information Processing Rate in Human-Computer Interaction	115
<i>Jing Kong, Xiangshi Ren</i>	
Research on Web-Based Community and Real-World Community in IT Education for Public.....	119
<i>Wei Zhou, HuiYong Wang, HuiCong Wu, XiangJun Ji</i>	
A Simulation Model for Traffic Behavior at Merging Sections in Highways	123
<i>Xingju Wang, Toshihiko Miyagi, Jiangqian Ying</i>	
A Quantitative Measurement of Voice Separation Ability in Humans	127
<i>Di Miao, Shuoyu Wang</i>	
Synchronization of Networked Oscillators and its Application	131
<i>Xinkai Chen</i>	
Piano Sound Characteristics: A Study on Some Factors Affecting Loudness in Digital and Acoustic Pianos.....	135
<i>Alexander Adli, Zensho Nakao, Toshiaki Yokoda, Yasunori Nagata</i>	
Study on Evolution of Domain Ontology	139
<i>Yao Liu, Xuefei Chen, Zhifang Sui</i>	
Gender Identification for Chinese e-Mail Documents	143
<i>Gui-Fa Teng, Wen-Qiang Dong, Jing Yang, Jian-Bin Ma</i>	
Melody Information Extraction of Humming Based on Wavelet Analysis.....	146
<i>Ping Gao, Guifa Teng, Duanli Yang, Yang Zhao, Yihong Liu</i>	
Effect of Multidimensional Delay Vector in On-Line Handwriting Verification	150
<i>Yusuke Manabe, Basabi Chakraborty</i>	
Softcomputing Approach for Stock Price Trend Forecasting from Multivariate Time Series	154
<i>H. Watanabe, B. Chakraborty, G. Chakraborty</i>	
Classification Rules for Multi-Level Multivariate Data	158
<i>Anuradha Roy, Ricardo Leiva</i>	
Feature Selection and Classification Techniques for Multivariate Time Series.....	162
<i>Basabi Chakraborty</i>	

Predictor System for Industrial Data	166
<i>G. Shobha</i>	
Robust Fault Tolerant Fuzzy Control for Nonlinear Systems with Actuator Failures	170
<i>Tiechao Wang, Shuo Tong, Shaocheng Tong</i>	
Type-2 Fuzzy Reasoning Model and Algorithms	174
<i>Tao Wang, Yang Chen, Shaocheng Tong</i>	
Ant Algorithm Based on Weighting Order	178
<i>Wei Liu, Rui-chun Ren, Ya-qi Yang</i>	
Research on Extension's Utilization in Model's Self-Learning	182
<i>Wei Liu, Wanna Liu, Hong Gao</i>	
The Research of Single Intersection Signal Control Method in Intelligence Transportation System	186
<i>Wen-ge Ma, Hai-shuang Guan, Liang-zhi Li, Xiao-guang Qin</i>	
Fuzzy Robust Convex Optimization with Linear Membership Functions and its Applications	189
<i>Churen Sun, Lei Huang</i>	
Stable Fuzzy Controller Design for a Nonlinear Helicopter Model.....	193
<i>Hanif Tahersima, Mahdi Kaveh, Alireza Fatehi</i>	
Novel Dynamic Voltage Restorer with Outage Handling Capability Using Fuzzy Logic Controller.....	197
<i>M. Ashari, T. Hiyama, M. Pujiantara, H. Suryoatmojo, Mauridhi Hery-Purnomo</i>	
Using Extension Method to Solve the Incompatible Problem of Fuzzy Control Rule.....	201
<i>Wang Minghui, Yu Yongquan, Zeng Bi, Wang Fei</i>	
An Application of Automated Inkless Fingerprint Imaging Software in Fingerprint Collection and Pattern Analysis.....	205
<i>Somsong Nanakorn, Pongsakorn Poosankam, Art Nanakorn</i>	
A New Computation-Aware Scheme Based on Stopping-Threshold Adaptation for Predictive Block Motion Estimations	209
<i>Shih-Yu Huang, Yeuan-Kuen Lee</i>	
An Efficient Baseball Playfield Segmentation Based on Learning Vector Quantization.....	213
<i>Wei-Han Chang, Chung-Ming Kuo, Chaur-Heh Hsieh, Ching-Hsuan Lin</i>	
An Image Quality Assessment Algorithm Based on Dual-Scale Edge Structure Similarity.....	217
<i>Bin Liao, Yan Chen</i>	
A Novel ROI Based Image Retrieval Algorithm	221
<i>Yan Wang, Ke-Bin Jia, Peng-Yu Liu</i>	
A Media-Art Employing Virtual Shadows with Shape Recognition.....	225
<i>Sunao Hashimoto, Joo Kooi Tan, Hyoungseop Kim, Seiji Ishikawa</i>	
A 3D Model Retrieval Approach Based on The Principal Plane Descriptor	229
<i>Jau-Ling Shih, Wen-Chang Wang</i>	
The Visualization Technique of Daily Corridor Noises	233
<i>Hideki Yoshida, Yasunari Maeda, Naoya Ikeda, Yoshitaka Fujiwara</i>	
Nested Local Adiabatic Evolution for Quantum-Neuron-Based Adaptive Support Vector Regression and its Application.....	237
<i>Bao Rong Chang, Chung-Ping Young, Hsiu Fen Tsai, Shi Huang Chen, Yu Chang Chen, Yu-Kuo Tseng</i>	

The Implementation of a Wired/Wireless Multimedia Playback System	241
<i>Chung-Ping Young, Bao Rong Chang, Yan-You Chen, Wei-Zhong Zhou</i>	
Broader Hierarchical Mobile IPv6	245
<i>Yu-Chang Chen, Tai-An Lai, Bao-Rong Chang</i>	
A Support Vector Machine Based Voice Activity Detection Algorithm for AMR-WB Speech Codec System.....	249
<i>Shi-Huang Chen, Shih-Hao Chen, Bao Rong Chang</i>	
Hardware-Oriented Partition for Embedded Multiprocessor FPGA Systems.....	253
<i>Trong-Yen Lee, Yang-Hsin Fan, Yu-Min Cheng, Chia-Chun Tsai, Rong-Shue Hsiao</i>	
The Adaptive Application Layer Service Management System - In the Instance of Chung Hwa School of Arts.....	257
<i>Yu-Kuo Tseng, Wen-Yen Chou, Wen-Shyong Hsieh, Bao-Rong Chang</i>	
Domain-Specific Extractive Summarization: A Fuzzy Logic and Rough Set Approach	261
<i>Hsun-Hui Huang, Yau-Hwang Kuo, Horng-Chang Yang</i>	
Buffer Analysis on TCP Connection Throughput in Fast Long-Distance Networks	265
<i>Yu-Chang Liu, Ren-Hao Cheng, Mong-Fong Horng, Jeng-Pong Hsu, Yau-Hwang Kuo</i>	
Downlink Spatial Division Multiple Access (SDMA) Optimization of Smart Antennas by Phase-Amplitude Perturbations Based on Memetic Algorithms	269
<i>Chao-Hsing Hsu, Wen-Jye Shyr, Chi-Fei Wu, Pao-Hua Chou</i>	
Passivity Analysis for Uncertain Time-Varying Delayed Neural Networks with Neutral Type.....	273
<i>Chin-Wen Liao, Chien-Yu Lu</i>	
Virtual Impedance Analyzer Design and Implementation	277
<i>Kai-chao Yao, Chin-Wen Liao, Li-ling Chao, Fu-yu Lin</i>	
A Fast Way to Design Adaptive Digital High-Pass Filters.....	281
<i>Kai-chao Yao, Chin-Wen Liao, Der-fa Chen</i>	
An Authenticated Encryption Scheme for Securely Signing a Signature with Message Linkages	285
<i>Yi-Hwa Chen, Jinn-Ke Jan</i>	
A Study of the Adaptive Control Law Applied to a Nonlinear System	289
<i>Pao-Hwa Yang, Heng-Hui Chen, Jiunn-Shean Chiang, Hung-Bin Kuo</i>	
Protecting the Privacy of Users in Retrieving Valuable Information by a PIR Scheme with Mutual Authentication by RSA Signature Algorithm	293
<i>Chun-Hua Chen, Gwoboa Horng, Chao-Hsing Hsu</i>	
Structure Damages Detection Based on Genetic Algorithm with Experimental Validation	298
<i>Huijian Li, Changjun He, Xiaozhan Yin</i>	
Reliability Monitoring and Performance Measuring for the Exponential Failure Process	302
<i>Chien-Wei Wu, Chian-Shang Yang, Ming-Hung Shu</i>	
A Comparative Study of the Monitoring Performance for Weighted Control Charts	306
<i>Shuenn-Ren Cheng, Yan-Hung Yeh, Ming-Hung Shu</i>	
Evaluating Lifetime Performance for the Pareto Model with Censored Information	310
<i>Bi-Min Hsu, Bo-Sen Chen, Ming-Hung Shu</i>	
Multi-Attribute Fuzzy Time Series Based on Adaptive Expectation Model	314
<i>Ching-Hsue Cheng, Jing-Wei Liu, Cheng-Chih Hung</i>	

Improving Relational Database Quality Based on Adaptive Learning Method for Estimating Null Value.....	318
<i>Ching-Hsue Cheng, Liang-Ying Wei, Tzu-Cheng Lin</i>	
Classifying Initial Returns of Electronic Firm's IPOs Using Entropy Based Rough Sets in Taiwan Trading Systems	322
<i>Ching-Hsue Cheng, You-Shyang Chen, Shian Chen Jr.</i>	
Forecasting Innovation Diffusion of ICT Products Based on Trend-Weighted Fuzzy Time-Series Model.....	326
<i>Ching-Hsue Cheng, You-Shyang Chen</i>	
A Strategic Alliance Approach for the On-Line Game Industry Between China and Taiwan.....	330
<i>Chia-Nan Wang, Jen-Han Tsai, K.L. Yang</i>	
A Model for Candidate Selection of Strategic Alliances: Case on Industry of Department Store	334
<i>Chia-Nan Wang, Kun-Zhong Li, Cheng-Ter Ho, K.L. Yang, Chih-Hong Wang</i>	
A Study of Neuro-Fuzzy Learning Algorithm for Hardware Implementation.....	338
<i>Kuniaki Fujimoto, Hirofumi Sasaki, Ren-Qi Yang, Yan Shi</i>	
A Fuzzy-Based Educational System To Assist Self-Learning for Pupils	342
<i>Kei Eguchi, Shuji Kurebayashi, Hongbing Zhu, Yukihiro Itoh</i>	
Performance of MC-DS-CDMA Systems Employing Chaotic Binary Sequences	346
<i>Daisaburo Yoshioka, Akio Tsuneda</i>	
Sonification of Bifurcation and Chaos.....	350
<i>Toshihiro Kita</i>	
Application of Neuro-Fuzzy Approach for I²D²RS	353
<i>Hongmei Kai, Hongbing Zhu, Kei Eguchi, Zhan Yong Guo, Jun Wang, Hong Zheng</i>	
Virtual Experimental Equipment of I²D²RS with Xen.....	357
<i>Zhan Yong Guo, Hongbing Zhu, Hongmei Kai, Kei Eguchi, Jun Wang, Jianying He</i>	
A Study on Generation of Random Bit Sequences with Post-Processing by Linear Feedback Shift Registers	361
<i>Akio Tsuneda, Sho Mitsuishi, Takahiro Inoue</i>	
Balanced Voltage Sag Correction Using Dynamic Voltage Restorer Based Fuzzy Polar Controller.....	365
<i>Margo Pujiantara, Mauridhi Hery-Purnomo, M. Ashari, T. Hiyama</i>	
Single Input Virtual Digital Multi-Meter Design and Implementation.....	369
<i>Kai-chao Yao, Li-ling Chao</i>	
Adaptive Synchronization in Chaotic Rigid Body Motions.....	373
<i>Heng-Hui Chen, Jiunn-Shean Chiang, Yung Lung Lin</i>	
Optimal Planning of Energy Conservation for Vocational High Schools in Taiwan	377
<i>Chin-Wen Liao, Kai-chao Yao, Der-fa Chin</i>	
A Vector Controller Based on DSP for Wind Power Inverter-Excited Induction Generator	381
<i>Ying-Shing Shiao, Ding-Tsair Su</i>	
Power System Fast Line Flow Calculation for Security Control by Sensitivity Factor	385
<i>Shiuam-Tai Chen, Wei-Tzer Huang, Wen-Tsuan Lai, Pin-Hui Shi</i>	
Design and Implementation of a Robust Controller for a Micro Permanent Magnet Synchronous Speed Control Systems	389
<i>Yih-Hua Chang, Tian-Hua Liu, Der-fa Chen</i>	

Computer Assisted Characterization for Ultrasonic Liver Tissue by Fusion of Classifiers	393
<i>Wen-Li Lee, Kai-Sheng Hsieh</i>	
Direct Torque Control for a Matrix Converter Based on Induction Motor Drive Systems	397
<i>Der-fa Chen, Chin-Wen Liao, Kai-chao Yao</i>	
An Iteration Method to Sub-Optimal Output Feedback Computer Control of Decentralized Singularly-Perturbed Systems	401
<i>Kai-chao Yao</i>	
Robust Stability Analysis of Discrete Time System via an Optimization Approach	405
<i>Wen-Jye Shyr, Chao-Hsing Hsu, Chun-Hua Chen, Chi-Fei Wu</i>	
Trend Analysis Technique for Real Time Fault Simulation in Integrated Fault Diagnostic System	409
<i>Hossam A. Gabbar, Hanaa E. Sayed</i>	
PID Gain Tuning Method for Oil Refining Controller Based on Neural Networks	413
<i>Yoshihiro Abe, Masami Konishi, Jun Imai, Ryuusaku Hasagawa, Masanori Watanabe, Hiroaki Kamijo</i>	
OPTIMRED - A Software Application for Computation of Optimal Reduced Model	417
<i>A. S. Osunleke, O. Taiwo, A.G. Hossam</i>	
Agent Based Material Transfer Scheduling in Steel Works	421
<i>Junji Kikuchi, Masami Konishi, Jun Imai</i>	
Development of a Dynamic Operation Permission Agent for Preventing Commission Errors of Operators	425
<i>Akio Gofuku, Takahiro Sato</i>	
A Cooperative Motion Control of 2-Dof Robot Arms by Neuro-Evolved Agents	429
<i>Yingda Dai, Masami Konishi, Jun Imai</i>	
AISMA: An Agent-Based Intelligent System for Mobile Auction	433
<i>Kuen-Liang Sue, Chung-Hsien Tsai</i>	
Hierarchical Control in a Multiagent System	437
<i>Ariuna Damba, Shigeyoshi Watanabe</i>	
An Application of Support Vector Machines in Small-Business Credit Scoring	441
<i>Yanwen Dong</i>	
Soft Approach for Optimization in Portfolio Management	445
<i>Chunhui Xu</i>	
An Experiment of Control-Theoretical Model in Dynamic Portfolio Management	449
<i>Jie Wang, Chunhui Xu, Akiya Inoue</i>	
Applying Web Technique in Market Segmentation and Product Form Feature Analysis	453
<i>Jih-Syongh Lin, Chien-Cheng Chang, Shih-Yen Huang</i>	
A Simulation Study for the Operations Analysis of Dynamic Planning in Container Terminals Considering RTLS	457
<i>Seok-Yong Lee, Gyu-Sung Cho</i>	
A Study on the Development of a Process Designer for Logistics Process Modeling	461
<i>Dongsoo Kim, Minsoo Kim</i>	
Building a RosettaNet-Based e-Logistics Automation System	465
<i>Minsoo Kim, Dongsoo Kim</i>	
Container Terminal Demand Forecasting Framework Using Fuzzy-GMDH and Neural Network Method	471
<i>Heung-Suk Hwang, Suk-Tae Bae, Gyu-Sung Cho</i>	

Algorithm for Multislot Just-in-Time Scheduling on Identical Parallel Machines	475
<i>Shao Chin Sung, Ondrej Cepek, Kunihiko Hiraishi</i>	
Pattern Recognition of EEG Signal during Motor Imagery by Using SOM.....	479
<i>Tomonari Yamaguchi, Koichi Nagata, Pham Quang Truong, Gert Pfurtscheller, Katsuhiro Inoue</i>	
Study on the Visualization of the Impression of Listening to the Music	483
<i>Shunsuke Ishimitsu, Koji Sakamoto, Keitaro Sugawara, Toshikazu Yoshimi, Katsuhiro Sasaki</i>	
Construction of the Noise-Robust Body-Conducted Speech Recognition System.....	487
<i>Shunsuke Ishimitsu, Masashi Nakayama, Toshikazu Yoshimi</i>	
Comparison with Adaptive Controllers for Feedforward Control and its Application to the Active Control of Ship Interior Noise.....	491
<i>Shunsuke Ishimitsu, Naoaki Shibatani</i>	
Parasitic Discrete Wavelet Transform and its Application on Abnormal Detection	495
<i>Zhong Zhang, Hiroki Ikeuchi, Tetsuo Miyake, Takashi Imamura</i>	
Classifier Learning Algorithm Based on Genetic Algorithms.....	499
<i>Li-yan Dong, Guang-yuan Liu, Sen-miao Yuan, Yong-li Li, Zhen Li</i>	
Experimental Scalability Evaluation of Unbalanced-Nodes PC Cluster	503
<i>Zhen Liu, Haruno Hinata, Hiroyuki Hirano, Xiangshi Ren, Yuanning Liu, Jia Liu</i>	
Optimizing Parameter Settings in Target Predictor for Pointing Tasks.....	507
<i>Xinyong Zhang, Xiangshi Ren</i>	
Establishing User Discriminated Pressure Levels and the Effects of Posture on Pressure Input.....	511
<i>Xiangshi Ren, Sachie Mizobuchi, Jibin Yin, Tomoki Ooya</i>	
A Novel Algorithm on Iris Identification Based on Tree-Structured Wavelet Transform with Dominant Frequency Energy.....	515
<i>Yuanning Liu, Xiaodong Zhu, Jing Chen, Zhen Liu</i>	
Parallel Algorithm for Finding the Minimum Edges to Make a Disconnected Directed Acyclic Graph Strongly Connected	519
<i>Tsuyoshi Itokawa, Akio Tada, Masahiro Migita</i>	
Performance Evaluation for Linux Under SYN Flooding Attacks	523
<i>Shunsuke Oshima, Takuo Nakashima</i>	
A Proposal of Feeling Automatic Operation Analysis Using Facial Chart	527
<i>Yoshifumi Oyama, Yoshitaka Narita</i>	
Development of Complex Inspection Device for Cutaneous Sense Diagnosis	531
<i>Yoshifumi Oyama, Tatsuya Tokunaga, Masanobu Nagata, Kazuhito Fukumoto</i>	
A Performance Simulation for Stationary End Nodes in Ad Hoc Networks	535
<i>Takuo Nakashima, Masaaki Kira, Toshinori Sueyoshi</i>	
A Novel Handover Scheme with Improved Performance by Switching between Unicast Addressing and Anycast Addressing	539
<i>Wei Kuang Lai, Chin-Shiu Shieh, Kuang-Ning Chu</i>	
A Web Based Multipoint Application Model without Real-Time Constraints	544
<i>Liang-Wei Wang, Tzao-Lin Lee, Shann-Chiuen Wu</i>	
The Experiential Marketing Framework Under Internet Environment.....	548
<i>Nai-Wen Kuo, Ya-Ching Lin</i>	
A New Method of Illumination Invariant Face Recognition	552
<i>Juanjuan Wang, Lifang Wu, Xiaoguang He, Jie Tian</i>	

On Guaranteed Parameter Estimation of Discrete-Time Stochastic Systems	556
<i>Anna A. Malyarenko, Vyacheslav A. Vasiliev</i>	
Discrete-Time Feedback Error Learning for Unknown Nonlinear Systems	560
<i>Sirisak Wongsura, Waree Kongpraveechon</i>	
Motion Adaptive De-Interlacing with Local Scene Changes Detection.....	564
<i>Chung-chi Lin, Ming-hwa Sheu, Huann-keng Chiang, Chishyan Liaw, Jia-fu Lin</i>	
Bird Species Recognition by Comparing the HMMs of the Syllables.....	568
<i>Chih-Hsun Chou, Chang-Hsing Lee, Hui-Wen Ni</i>	
Fast Algorithm of the 2-D 4x4 Inverse Integer Transform for H.264/AVC.....	572
<i>Ji Xiuhua, Zhang Caiming, Wang Yanling</i>	
An Image Retrieval Method Using Combined Features Based on Feature Statistic.....	576
<i>Pengyu Liu, Kebin Jia, Zhuoyi Lv</i>	
The Application of Face and People-Flow Recognition for Kanban Broadcast System	580
<i>Jyun-Ciang Huang, Mao-Cheng Huang, Gwo-Jiun Horng, Gwo-Jia Jong</i>	
A Framework for Assessing Usage of Web-Based e-Learning Systems	584
<i>Chien-Chung Chan</i>	
Social Network Supports in Knowledge Sharing	588
<i>Stephen J.H. Yang, Irene Y.L. Chen, Jeff Huang, Tony Fan</i>	
Elicitation of Time Scale-Oriented Expertise from Multiple Experts	592
<i>Hui-Chun Chu, Gwo-Jen Hwang</i>	
An Iterative, Collaborative Ontology Construction Scheme.....	596
<i>Hsin-Nan Lin, Shian-Shyong Tseng, Jui-Feng Weng, Huan-Yu Lin, Jun-Ming Su</i>	
A Conflict Treatment Algorithm for Certainty Rule-Based Knowledge.....	600
<i>Chin-Jung Huang, Ying-Hong Lin</i>	
A Conflict Treatment Model for Uncertainty Rule-Based Knowledge	604
<i>Chin-Jung Huang, Ying-Hong Lin</i>	
Knowledge-Based Object Placement in Virtual Environments	608
<i>Shao-Shin Hung, Damon Shing-Min Liu</i>	
Enhancing Fuzzy Rule Extraction Based on Rough Set Theory and Entropy	612
<i>Tien-Chin Wang, Hsien-Da Lee, Ta-Jen Yu, Ko Mei-Fei</i>	
Meta-Analyzer: A Web-Based Environment for Analyzing Student Information Searching Behaviors.....	616
<i>Gwo-Jen Hwang, Pei-Shan Tsai, Judy C. R. Tseng, Chia-Ching Lin, Chin-Chung Tsai</i>	
SCORM/IMS-Based Standards for Describing Personal and Environmental Contexts in Ubiquitous Learning Environments	620
<i>Yen-Jung Chen, Fan-Ray Kuo, Gwo-Jen Hwang, Hui-Chun Chu</i>	
Applying Content Adaptation to Mobile Learning	624
<i>Stephen J.H. Yang, Irene Y.L. Chen, Rick Chen</i>	
Interactive Item Template and Editing System.....	628
<i>Chorng-Shiuh Koong, Yong-Yi FanJiang, Jian-Wei Wu, Shih-Cheng Feng</i>	
A Multimedia Mobile Learning System to Support Auxiliary Collaborative Learning	632
<i>Chorng-Shiuh Koong, Chi-Hung Wu, Chia-Sen Huang</i>	
Computer-Based Assessment for the Stroke Order of Chinese Characters Writing	636
<i>Guey-Shya Chen, Yu-Du Jheng, Li-Fon Lin</i>	

Examining the Role of Feedback on Self-Efficacy and Performance in Web-Based Environment	640
<i>Shu-Ling Wang, Pei-Yi Wu</i>	
From the Virtual to Physical Environments: Exploring Interactivity in Ubiquitous-Learning Systems	644
<i>Hsinyi Peng, Chien Chou, Chun-Yu Chang</i>	
An Information Technology-Applied Approach on Examining the Growth Patterns of Geometric Creativity for the 5th Graders.....	648
<i>Pi-Hsia Hung, Yuan Chen, Chien-Hsun Tseng, Pi-Fen Hou</i>	
A Weight-Based Feature Extraction Approach for Text Classification.....	652
<i>Jung-Yi Jiang, Shie-Jue Lee</i>	
Particle Swarm Optimization-Aided Feature Selection for Spam eMail Classification	656
<i>Chih-Chin Lai, Chih-Hung Wu</i>	
The Bowl-Throwing Result Analysis for Bowling Game	660
<i>Jiann-Shu Lee, Shang-Chin Su, Hsuan-Ting Chang</i>	
A Comparative Study of Genetic Network Modeling Using Predator-Prey System	664
<i>Tean Q. Lee, Chi Y. Yeh, Shing H. Doong</i>	
The Application of Improved Genetic Algorithm on The Training of Neural Network for Speech Recognition	668
<i>Shing-Tai Pan, Chih-Hung Wu, Chih-Chin Lai</i>	
Application of Analytic Network Process (ANP) in Assessing Construction Risk of Urban Bridge Project.....	672
<i>Shih-Tong Lu, Cheng-Wei Lin, Ping-Hui Ko</i>	
A Robust Adaptive Fuzzy CMAC Controller for Nonlinear Systems	676
<i>Jen-Yang Chen</i>	
Portfolio Selection Problems Considering Fuzzy Returns of Future Scenarios	680
<i>Takashi Hasuike, Hiroaki Ishii</i>	
Text Mining of Clinical Records for Cancer Diagnosis	684
<i>Chung-Hong Lee, Chih-Hung Wu, Hsin-Chang Yang</i>	
Analysis of Web Trust Networks	688
<i>Yi-Cheng Ku, Han-Wei Hsiao, Chih-Ping Wei</i>	
A Platform of Biomedical Literature Mining for Categorization of Cancer Related Abstracts	692
<i>Chung-Hong Lee, Hui-Chuan Chiu, Hsin-Chang Yang</i>	
A Method for Semantic Matching and Annotation of Images for Image Retrieval	696
<i>Hsin-Chang Yang, Chung-Hong Lee</i>	
An Aggressive Feature Selection Method based on Rough Set Theory.....	700
<i>Fangtao Li, Tao Guan, Xian Zhang, Xiaoyan Zhu</i>	
Higherrarchical Data Mining for Unusual Sub-Sequence Identifications in Time Series Processes	704
<i>Jamal Ameen, Rawshan Basha</i>	
A System for Mining Generalized Association Rules with Ontology Using Genetic Network Programming.....	708
<i>Guangfei Yang, Kaoru Shimada, Shingo Mabu, Kotaro Hirasawa, Jinglu Hu</i>	
Contextualization of Relationship Between Parents, Children and Internet by Data Mining	712
<i>Sheng-Fei Hsu, Ka-Chiao Kao</i>	

Data Warehouse Design for Chinese Intelligent Question Answering System Based on Data Mining	716
<i>Shou-ning Qu, Qin Wang, Kui Liu, Yan Zou</i>	
A Revised EM-Like Mechanism for Solving the Vehicle Routing Problems	720
<i>Peitsang Wu, Kung-Jiuan Yang, Bau-Yuan Huang</i>	
Cumulative Count of Conforming Chart with Variable Sampling Intervals for Markov Dependent Production Processes	724
<i>Pei-Wen Chen, Chuen-Sheng Cheng</i>	
Application of Artificial Immune System in Constructing a Financial Early Warning System: An Example of Taiwanese Banking Industry.....	728
<i>Jih-Chang Hsieh, Shih-Hsin Chen, Pei-Chann Chang</i>	
A Neutral Framework Approach to Enhance Discrete-Event Simulation Model Interoperability	731
<i>Tai-Chi Wu, Allen G. Greenwood</i>	
Piling Construction Management and Decision Support Using Geographical Information System	735
<i>Kuo-Liang Lin, Jyh-Bing Suen</i>	
VAR Compensation and Voltage Control Strategy Optimization Using Artificial Immune Algorithm for Intelligent Transmission Networks	739
<i>Tsair-Fwu Lee, Ying-Chang Hsiao, Ming-Yuan Cho, Pei-Ju Chao, Tze-Liang Huang, Horng-Yuan Wu</i>	
A SVM-Based Multiple Faults Classification Scheme Design in Flight Control FDI System	743
<i>Wei Yin, WeiGuo Zhang, Xun Sun</i>	
Rule Induction through Clustering Classes for Nominal and Numerical Data	748
<i>Yoshifumi Kusunoki, Masahiro Inuiguchi</i>	
An Efficient Tree Method in Option Pricing	752
<i>Szu-Lang Liao, Chin-Wen Wu, Chou-Wen Wang</i>	
Heuristic Rules in Real Options Applications.....	756
<i>Yungchih George Wang</i>	
Capital Budgeting with Fuzzy Net Present Value Criterion	761
<i>Huei-Wen Lin, Huei-Fu Lu</i>	
Using Neural Network and Genetic Programming Techniques to Forecast Inter-Commodity Spreads.....	765
<i>Meng-feng Yen, Tsung-Nan Chou, Hung-chih Li, Ying-yue Ho</i>	
A Pricing Model of Fuzzy Rainbow Options	770
<i>Jao-Hong Cheng, Chen-Yu Lee</i>	
Multiple Criteria Decision Making and De Novo Programming in Portfolio Selection.....	774
<i>Jing-Rung Yu, Hao-Hsiang Wang</i>	
An Evolutionary Threshold Logistic Regression Model for Business Failures Forecast	778
<i>Ping-Chen Lin, Po-Chang Ko, Chun-Chung Yu</i>	
Operating Performance by the Development of Efficiency Measurement Based on Fuzzy DEA	782
<i>Hsien-Chang Kuo, Lie-Huey Wang</i>	
Information Indicators of Limit Order Book and Optimal Dynamic Order Submission Strategy	786
<i>Pei-Han Hsin, Ming-Chang Wang, Chin-Shun Wu</i>	

Forecasting of Optimal Selecting-stock Strategy by Rolling Grey Model RGM (1, 1): Evidence from Taiwan 50 Index Stocks	792
<i>Chin-Shun Wu, Pei-Han Hsin, Chun-I Chen</i>	
Intelligent Self-Management Home Multimedia Service System.....	797
<i>Mong-Fong Horng, Tzer-Ming Liu, Yi-Hsiang Hung, Cheng-Yu Lin</i>	
A New Context-Aware Application Validation Method Based on Quality-Driven Petri Net Models	801
<i>Hsien-Tsung Cho, Po-Cheng Huang, Ren-Hong Luo, Yau-Hwang Kuo</i>	
Applied Software Agents Mechanism to Mathematics Learning in Elementary School	805
<i>Yuh-Ming Cheng, Peng-Fei Chen</i>	
Indoor Financial Investment by Applying Information Resource on Internet.....	809
<i>Chieh Yow ChiangLin, Typhoon Wen</i>	
An Integrated Functional Verification Tool for FPGA Systems.....	813
<i>Trong-Yen Lee, Yang-Hsin Fan, Shih-Chin Yen, Chia-Chun Tsai, Rong-Shue Hsiao</i>	
Hybrid Architecture for Efficient Mobile Streaming Service	817
<i>Sung Yong Lee, Chang Yeol Choi, Ho Young Song</i>	
Modeling the High Performance Transmission Control Protocol for Supporting IP Packet over WDM Ring Networks	821
<i>Jih-Hsin Ho, Wen-Shyang Hwang, Wen-Ping Chen</i>	
SIP-Based User-Oriented Handoff Control for Video Phone.....	825
<i>Hsu-Yang Kung, Wen-Kai Chung</i>	
Threshold-GARCH Option Pricing: A Trinomial Tree Approach	829
<i>Shu-Ing Liu, Yu-Chung Liu</i>	
A Hybrid Importance Sampling Algorithm for Value-at-Risk	833
<i>Tian-Shyr Dai, Shih-Kuei Lin, Li-Min Liu</i>	
The Relationship Between Exchange Rate Exposure, Strategic Resources and Firm Value: Evidence from Taiwan's Stock Market	837
<i>Tsui-Jung Lin, Shwu-Hsing Wu, Chi-Ming Ho</i>	
A Nonlinear Stock Valuation Using a Hybrid Model of Genetic Algorithm and Cubic Spline	841
<i>Po-Chang Ko, Ping-Chen Lin, Yao-Te Tsai</i>	
A Novel Prediction Model for Credit Card Risk Management.....	845
<i>Tsung-Nan Chou</i>	
An Impact of Foreign Investment Turnover and Exchange Rate Volatilities on the Taiwan's Stock Market Returns: A Double Threshold-IGARCH Model	849
<i>Wann-Jyi Horng, Liu-Hsiang Hsu</i>	
Non-Audit Service and Auditor Independence: The Role of Auditor Incentive Structure	853
<i>Rong-Ruey Duh, Wen-Chih Lee, Chi-Yun Hua</i>	
Agent-Based Simulation Of Agricultural Prices Volatility Using Cellular Automata	857
<i>Yenming J. Chen, Jau-Wen Wang</i>	
Market-Neutral Portfolio of Trading Strategies as Universal Indicator of Market Micro-Regimes: From Rare-Event Forecasting to Single-Example Learning of Emerging Patterns	861
<i>Valeriy V. Gavrilchaka, Valery Bykov</i>	
An Empirical Study of Credit Scoring Model for Credit Card.....	865
<i>Hui-Chung Yeh, Min-Li Yang, Li-Chuen Lee</i>	

An Interactive Handheld Device-Based Guide System Using Innovative Techniques	869
<i>Yo-Ping Huang, Tsun-Wei Chang, Wei-Po Chuang, Frode Eika Sandnes</i>	
A Region-Based Image Retrieval Approach Using Block DCT	873
<i>Mann-Jung Hsiao, Yo-Ping Huang, Te-Wei Chiang</i>	
Backup Mechanism for Cell-Based Positioning Method in WSNs	877
<i>Hung-Chi Chu, Rong-Hong Jan</i>	
On Pulse Coupling for Time Synchronization in Wireless Sensor Networks	881
<i>Wei Yen, Hsueh-Sheng Huang</i>	
An Intelligent MRAS Platform for IP-Based Mobile Networks	885
<i>Chia-Sheng Tsai, Bo-Fu Shen</i>	
An Efficient Indexing Method for Content-Based Image Retrieval	889
<i>Te-Wei Chiang, Tienwei Tsai, Yo-Ping Huang</i>	
A Braille Recognition System by the Mobile Phone with Embedded Camera	893
<i>Shanjun Zhang, Kazuyoshi Yoshino</i>	
A Hybrid Algorithm of Immune Algorithm and Gradient Search for Multiple Solution Search	897
<i>Satoshi Ono, Yusuke Hirotani, Shigeru Nakayama</i>	
Federal Funds Rate Prediction Using Robust Radial Basis Function Neural Networks	902
<i>Chun-Li Tsai, Chien-Cheng Lee, Yu-Chun Chiang</i>	
A Fast Caption Localization and Detection for News Videos	906
<i>Chien-Cheng Lee, Yu-Chun Chiang, Hau-Ming Huang, Chun-Li Tsai</i>	
Locating License Plate Based on Edge Features of Intensity and Saturation Subimages	910
<i>Chien-Chou Lin, Wen-Huei Huang</i>	
A Heuristic Approach for Music Segmentation	914
<i>Chuan-Wang Chang, Wen-Jie Ke, Hewijin Christin Jiau</i>	
Learning Vector Quantization Neural Networks for LED Wafer Defect Inspection	918
<i>Chuan-Yu Chang, Chin-Huang Chang, Chun-Hsi Li, MuDer Jeng</i>	
Radial Basis Function Neural Networks for LED Wafer Defect Inspection	922
<i>Chuan-Yu Chang, Yung-Chi Chang, Chun-Hsi Li, MuDer Jeng</i>	
A Case Study on Large-Scale Disk System Concatenating Free Space	926
<i>Erianto Chai, Minoru Uehara, Hideki Mori</i>	
Mining Clusters of Sequences Using Extended Sequence Element-Based Similarity Measure	930
<i>Seung-Joon Oh</i>	
Path and Cycle Embedding of 3-ary N-cubes	934
<i>Sun-Yuan Hsieh, Tsong-Jie Lin</i>	
An Effective Impulse Noise Detector of Switching Median Filter Using Min-Max Working Window	938
<i>Pei-Yin Chen, Chih-Yuan Lien, Chang-Yan Tsai</i>	
Implementation of an Efficient DWT Using a FPGA on a Real-Time Platform	942
<i>Chin-Fa Hsieh, Tsung-Han Tsai, Chih-Hung Lai, Shu-Chung Yi, Mao-Hsu Yen</i>	
An Intelligent Impulse Noise Detection Method by Adaptive Subband-Based Multi-State Median Filtering	946
<i>Thou-Ho Chen, Chin-Pao Tsai, Tsong-Yi Chen</i>	

An Intelligent Video Segmentation Algorithm in Rainy Situation	950
<i>Da-Jinn Wang, Yan-Ting Ye, Thou-Ho Chen, Tsong-Yi Chen</i>	
Intelligent Vehicle Counting Method Based on Blob Analysis in Traffic Surveillance.....	954
<i>Thou-Ho Chen, Yu-Feng Lin, Tsong-Yi Chen</i>	
Creating Wide Field-of-View Video Using Multicamera.....	958
<i>Wu-Chih Hu, Chin-Hao Chang, Ya-Fang Liang, Chen-Tsung Wu</i>	
Rule-Based Event Detection of Broadcast Baseball Videos Using Mid-Level Cues	962
<i>Mao-Hsiung Hung, Chaur-Heh Hsieh, Chung-Ming Kuo</i>	
Robust Human Motion Recognition Based on Multi-Directional Motion Representation.....	967
<i>Atiqur Rahman Ahad, T. Ogata, J. K. Tan, H. S. Kim, S. Ishikawa</i>	
A Fast Intra-Frame Prediction Algorithm Based on Characteristic of 4x4 Subblock for H.264/AVC.....	971
<i>Jia Kebin, Lv Zhuoyi, Xie Jing, Liu Pengyu, Zhu Qing</i>	
Simulated Life Test Plans with Type-I Interval Censoring for the Gamma Lifetime Model.....	975
<i>Wanbo Lu, Tzong-Ru Tsai</i>	
On Empirical Bayes Procedures for Selecting the Best Manufacturing Process Based on Process Capability Index	979
<i>Wen-Tao Huang, Yao-Tsung Lai</i>	
A Goodness-of-Fit Test for GEE Models with Binary Longitudinal Data Based on Smoothing Methods	983
<i>Kuo-Chin Lin, Yi-Ju Chen</i>	
A Group Sequential Procedure for Continuous Longitudinal Data in Multi-Armed Trials	987
<i>Yi-Ju Chen, Kuo-Chin Lin</i>	
Automatic Hypertext Table Understanding by Using Logical Structure Description Algorithm.....	991
<i>Chiung-Wei Huang, Chih-Yuan Chien, Chun-Nan Hsu, Hahn-Ming Lee</i>	
Robust Clustering on Rules Usage Classification of OJT with Raw Rule Score	996
<i>Yuan-Horng Lin, Wen-Liang Hung</i>	
A Two-Stage Genetic Algorithm for Solving Shortest Path Problem with Fuzzy Arc Lengths.....	1002
<i>Feng-Tse Lin, Ming-Gar Lee, Ching-Fen Fuh</i>	
Consideration on Stimulative Processing for Queen Ant Strategy in Swarm Intelligence	1006
<i>Ichiro Iimura, Shigeru Nakayama</i>	
Early Failure Detection of Bearing Based on Probabilistic Matching Pursuit	1011
<i>Jianjun Zhang, Zhongsheng Wang, Jiancang Ma</i>	
Cryptography Based on Rössler's Systems	1015
<i>Gwo-Ruey Yu, Jheng-Hong Lin</i>	
Fuzzy Control of Piezoelectric Systems with Input Time Delay by Piecewise Lyapunov Functions Approach.....	1019
<i>Gwo-Ruey Yu, Shih-Wei Liu</i>	
On-line Outliers Detection by Neural Network with Quantum Evolutionary Algorithm	1023
<i>Tzyy-Chyang Lu, Jyh-Ching Juang, Gwo-Ruey Yu</i>	
Optimal PI Control of a Permanent Magnet Synchronous Motor Using Particle Swarm Optimization.....	1027
<i>Chun-Yu Du, Gwo-Ruey Yu</i>	

Research on Application of Fault-Tolerant Control to Shunt Active Power Filter.....	1031
<i>Wanneng Yu, Wei Gu, Jianxin Zhu</i>	
The Automatic Monitor and Control System of Radon Chamber.....	1035
<i>Shumin Zhou, Yueshun He, Bin Tang, Jinyou Zhang</i>	
A Decoupling Control Method for Two Link Manipulator.....	1039
<i>Kouhei Tominaga, Ryuichi Oguro</i>	
A Method for Improvement of a Position Control with Analog Signal.....	1043
<i>Ryuichi Oguro, Ray Nakashima, Hideki Honda, Teruo Tsuji</i>	
Sliding Mode Grey Speed Control of Synchronous Reluctance Motor Current Sensorless Drive	1047
<i>Chien-An Chen, Huann-keng Chiang, Bor-Ren Lin, Chih-Huang Tseng</i>	
A Cycle-Stealing Technique for Pipelined Instruction Decompression System for Embedded Microprocessors	1051
<i>Yuan-Long Jeang, Tzuu-shaang Wey, Hung-Yu Wang, Chih-Chung Tai, Ching-Hua Chu</i>	
Mesh-Tree Architecture for Network-on-Chip Design.....	1055
<i>Yuan-Long Jeang, Tzuu-shaang Wey, Hung-Yu Wang, Chung-Wei Hung</i>	
A New Real-Time Address Tracer for Embedded Microprocessors Based on Preprocessing	1059
<i>Yuan-Long Jeang, Tzuu-shaang Wey, Hung-Yu Wang, Ching-Ta Chen</i>	
Embedded Digital Signal Controller Application in 2.4-GHz RF Signal Phase Control	1063
<i>Chun-Lin Lu, Min-Chuan Lin, Hung-Chi Wang, Chun-Chi Su, Wei-Yin Zeng, Jinn-Kwei Guo</i>	
Robust Synchronization of Delayed Cellular Neural Networks with Parameters Uncertainties and Input Nonlinearity.....	1067
<i>Chao-Jung Cheng</i>	
Robot Control System Based on Distributed Embedded Systems	1071
<i>Jeng-Yih Chiou</i>	
A Novel Method for Real-Time Data Sequence Compression of FPGA-Based SoC On-Chip Debugger	1075
<i>Guo-Ruey Tsai, Min-Chuan Lin, Ching-Hui Lin</i>	
Design and Implementation of a Digital Control IC for Driving Multiple Cold Cathode Fluorescent Lamps	1079
<i>Haw-Yun Shin, Jui-Piao Yang</i>	
Automatic White Balancing by Using NN Module.....	1083
<i>Chih-Yung Chen, Chun-Jen Chen, Huang-Chu Hunag, Yu-Ju Chen, Rey-Chue Hwang</i>	
Extraction of Lumped Element Parameters of Bonding Pad and Internal Arrangement for Ladder-Type SAW Filters Using Neural Network Techniques	1087
<i>Shuming T. Wang, Zhi-Feng Xie, Tzu-Te Liu, Rey-Chue Hwang</i>	
A New NN Fuzzy BP Learning Approach.....	1091
<i>Pin-Hsuan Weng, Yu-Ju Chen, Chuo-Yean Chang, Rey-Chue Hwang</i>	
The Identification of Ammonia Concentration by QNN	1095
<i>Chi-Yen Shen, Jen-Pin Yang, Rey-Chue Hwang, De-Lu Wang</i>	
The Prediction of Ink Thickness of Touch Panel by Neural Network.....	1099
<i>Chih-Chien Huang, Chih-Kang Kung, Shang-Jen Chuang, Huang-Chu Hunag, Rey-Chue Hwang</i>	
Midpoint-Validation Method of Neural Networks for Pattern Classification Problems	1103
<i>Hiroki Tamura, Koichi Tanno</i>	

An Improved Transiently Chaotic Neural Network with Multiple Chaotic Dynamics for Maximum Clique Problem	1107
<i>Gang Yang, Junyan Yi, Shangce Gao, Zheng Tang</i>	
Power System Stabilizer for Multi-Machine Using Genetic Algorithms Based on Recurrent Neural Network	1111
<i>Chun-Jung Chen, Tien-Chi Chen</i>	
Fuzzy Neural Tree for Knowledge Driven Design.....	1115
<i>Ö. Ciftcioglu, M. S. Bittermann, I. S. Sarayildiz</i>	
Asian New Generation's Perceptions Regarding Network Fraud.....	1119
<i>Gwo-Yunn Jaw, Jiann-Yeou Chen</i>	
Secured Operation Planning on Service Networks	1123
<i>Jiann-Gwo Doong, Ching-Song D. Wei</i>	
From Network Management to Service Management - A Challenge to Telecom Service Providers.....	1127
<i>Dominic Wong, Cliff Ting, Cherng Yeh</i>	
An Insider Attack Resistant Group Key Agreement Protocol from Pairings.....	1131
<i>Yong-Zhong He, Xiao-Yong Li, Zhen Han</i>	
Spam Filtering Based on Character Field.....	1135
<i>Liu Hui, Zhang Cai-ming</i>	
Multilevel Visual Secret Sharing.....	1139
<i>Ran-Zan Wang, Yeuan-Keun Lee, Shih-Yu Huang, Tsorng-Lin Chia</i>	
Crash of NIS Server Generates Unusual DNS Query Traffic	1143
<i>Dennis Arturo Ludeña Romaña, Hirofumi Nagatomi, Yasuo Musashi, Katsunori Taniguchi, Nobuaki Oomura, Ryuichi Matsuba, Kenichi Sugitani</i>	
Integrity Protection of Document Assets by Computing Skeletons	1147
<i>Chu-Hsing Lin, Jue-Sam Chou, Yu-Wen Chen</i>	
Semi-Fragile Watermarking and Authentication for Law Enforcement Applications.....	1151
<i>Anthony T.S. Ho</i>	
Improving Mutli-Set Formatted Binary Text Watermarking Using Continuous Line Embedding.....	1155
<i>C. Culnane, H. Treharne, A.T.S. Ho</i>	
Erasable Authentication Watermarking in Binary Document Images	1161
<i>Niladri B. Puhan, Anthony T.S. Ho, F. Sattar</i>	
Image Hiding by Simple Module Substitution.....	1165
<i>Ching-Yu Yang, Wei-Ying Huang, Ya-Fen Cheng</i>	
Digital Video Watermarking Based on Principal Component Analysis.....	1169
<i>Hanane H. Mirza, Hien D. Thai, Yasunori Nagata, Zensho Nakao</i>	
Development of Remote Control and Monitor System for Autonomous Mobile Robot Based on Virtual Cell Phone	1173
<i>Dong-ying Ju, Rui Zhong, Masaya Takahashi</i>	
Copyright Protection and Annotation with Reversible Data Hiding and Adaptive Visible Watermarking	1177
<i>Hsiang-Cheh Huang, Tai-Wan Chen, Jeng-Shyang Pan, Jiun-Huei Ho</i>	
Multipurpose Semi-Fragile Watermarking for Image Authentication	1181
<i>Tsong-Yi Chen, Da-Jinn Wang, Thou-Ho Chen, Shang-Wei Lin</i>	

Parity Modulation Based Watermarking Resisting to Cropping.....	1185
<i>Chuang Lin, Jeng-Shyang Pan, Bin-Yih Liao</i>	
Learning Weight Assignment in Distance Function for Biological Sequence Feature Vector by Genetic Algorithm.....	1189
<i>Huang-Cheng Kuo, Yu-Cheng Tseng, Jen-Peng Huang</i>	
Enterprise Financial Distress Evaluation based on Fuzzy-Rough Approach	1193
<i>Ming-Chang Lee</i>	
Pattern Matching in Go Game Records.....	1197
<i>Shi-Jim Yen, Tai-Ning Yang, Chang Chen Jr., Shun-Chin Hsu</i>	
Rough Set-Based Decision Tree Using the Core Attributes Concept	1201
<i>Sang Wook Han, Jae-Yearn Kim</i>	
Static Finger Language Recognition for Handicapped Aphasiacs.....	1205
<i>Yu-Fen Fu, Cheng-Seen Ho</i>	
Mining Association Rules with Ontological Information	1208
<i>Ming-Cheng Tseng, Wen-Yang Lin, Rong Jeng</i>	
Maintaining the Fast Updated FP-Tree from Modified Records Based on Pre-Large Itemsets	1212
<i>Chun-Wei Lin, Tzung-Pei Hong, Wen-Hsiang Lu</i>	
An Improved Fuzzy Genetics-Based Machine Learning Algorithm for Pattern Classification.....	1216
<i>Chen-Sen Ouyang, Cheng-Tsung Lee, Shie-Jue Lee</i>	
Human Gait Recognition for Arbitrary View Angles	1220
<i>Cheng-Chang Lien, Chih-Chiang Tien, Jia-Ming Shih</i>	
Three-Dimensional Camera System for the Thin Three-Dimensional Display Based on the Reconstruction of Parallax Rays.....	1224
<i>Hideya Takahashi, Manabu Chikayama, Kenji Yamada</i>	
Small Capturing System of Three-Dimensional Image Using Compound Optics.....	1228
<i>Kenji Yamada, Kouhei Kishimoto</i>	
Depth Detection of Target Object Using Parallax Information Produced by Digital Holography	1232
<i>Nobukazu Yoshikawa, Yuichi Sugawara</i>	
Measurement of 3D Distance Between Artificial Cup and Head from AP & Lateral Roentgens with Unknown Angle After THR	1236
<i>S. Nakajima, M. Ikeuchi, T. Toriu</i>	
The Study for Automatic 3D Reconstruction of Endoscopic Video Image	1240
<i>Toshiaki Nagakura, Kenji Okazaki, Tomoki Michida, Motohiro Hirao, Masako Kawai</i>	
Estimation of Degree of Attractiveness of Each Part of Images Based on Principal Component Analysis for Images Taken by Plural Cameras	1244
<i>Masahiko Horie, Shigeyoshi Nakajima, Takashi Toriu</i>	
Robust Person Detection Using Far Infrared Camera for Image Fusion	1248
<i>Thi Thi Zin, Hideya Takahashi, Hiromitsu Hama</i>	
Generating Natural Language Annotation from Video Sequences Taken by Handy Camera.....	1252
<i>Atsuhiko Kojima, Shigeki Aoki, Takao Miyamoto, Kunio Fukunaga</i>	

High-Resolution Image Restoration from Low-Resolution Images - Preprocessing for Pattern Recognition	1256
<i>Nobuhide Okabayashi, Hideya Takahashi, Hiromitsu Hama, Tahito Aida</i>	
Optimal Water Cooling Control for Plate Rolling	1260
<i>Tadafumi Notsu, Masami Konishi, Jun Imai</i>	
SVR based Obstacle Avoidance and Control of a Two Wheeled Mobile Robot	1264
<i>Lihua Jiang, Mingcong Deng, Akira Inoue</i>	
Data-Driven Skill-Based PID Control of a Pilot-Scale Helicopter Model	1268
<i>Akihiro Sakaguchi, Shinnosuke Mori, Toru Yamamoto</i>	
An Extension of Two Degree-of-Freedom of Generalized Predictive Control for M-Input M-Output Systems Based on State Space Approach.....	1272
<i>Akira Yanou, Akira Inoue, Mingcong Deng, Shiro Masuda</i>	
Petri Net Solver for Semiconductor Manufacturing Plan	1276
<i>Ryota Maeno, Masami Konishi, Jun Imai, Tatsushi Nishi</i>	
Two-Degree-of-Freedom GMVC-Based PID Controller Using Pre-Compensator	1280
<i>Takao Sato, Akira Inoue, Toru Yamamoto</i>	
Operator Based Thermal Control of an Aluminum Plate with a Peltier Device	1284
<i>Mingcong Deng, Akira Inoue, Soitiro Goto</i>	
Modeling and Simulation of a Small-Scale Wind Turbine Generator in Isolated Distribution Network	1288
<i>Syafaruddin, T. Hiyama</i>	
A Novel Driver with Adjustable Frequency and Phase for Traveling-Wave Type Ultrasonic Motor.....	1292
<i>Tien-Chi Chen, Chih-Hsien Yu, Chun-Jung Chen</i>	
Intrusion Detection by Heterosis Immunization with Gene Migration.....	1296
<i>Yenming J. Chen, Chia-Wen Chang</i>	
Applying Self-Organizing Map Network to Analyze Tourism Risk Perception and Travel Insurance: An Empirical Study	1300
<i>Pai-Lung Chou, Chao-Hsin Lin, Shuo-Fen Hsu, Hsiang-Hsi Liu</i>	
A Fast Multi-Objective Evolutionary Algorithm for Expensive Simulation Optimization Problems	1304
<i>Shin-Ming Guo</i>	
Evolutionary Engineering Optimization Using Recursive Regional Neural Network and Genetic Algorithm.....	1308
<i>Jyh-Cheng Yu, Yu-Lung Tseng</i>	
Intelligent Design of Automobile Fixtures with Genetic Algorithms.....	1312
<i>Tung-Kuan Liu, Hou-Yuan Lin, Chiu-Hung Chen, Jyh-Horng Chou, Jinn-Tsong Tsai, Wen-Hsien Ho</i>	
The Measurement of Capacity Utilization for a Container Shipping Line	1316
<i>Wei-Ming Wu</i>	
Robust Optimal State-Feedback Controllers Design of Uncertain Nonlinear Dynamic Systems by Using Integrative Optimization Approach.....	1320
<i>Wen-Hsien Ho, Jinn-Tsong Tsai, Tung-Kuan Liu, Jyh-Horng Chou</i>	
Circuit Tolerance Design Using an Improved Immune Algorithm	1324
<i>Jinn-Tsong Tsai, Wen-Hsien Ho, Jyh-Horng Chou, Tung-Kuan Liu</i>	
Extreme-Value and Margin Setting with Price Limits Using a Censoring Technique	1328
<i>Jian-Hsin Chou, Yu-Chuan Huang, Hong-Fwu Yu</i>	

Design of the Chaotic Secure Communication Time-Delay System by LMIs Method.....	1331
<i>C.K. Huang, H. W. Shieh, S.K. Changchien, H.H. Nien, Y.Y. Tuan, C.K. Chen</i>	
Study of the Electrical and Magnetic Properties of MnZn Ferrite by Equivalent Electrical Elements.....	1335
<i>H.H. Nien, T.J. Liang, J.F. Chen, S.K. Changchien</i>	
Design of a Variable Structure Controller for Mobile Manipulators.....	1339
<i>Chun-Chieh Wang</i>	
A New Approach to Chattering Reduction in the Sliding Mode Controls	1343
<i>Chi-Ying Liang, Shun-Wen Tan</i>	
Design of a Sliding Mode Controller for a Water Tank Liquid Level Control System	1347
<i>Hong-Ming Chen, Zi-Yi Chen, Juhng-Perng Su</i>	
Parameter Optimization for a Third-Order Sampled-Data Tracker	1351
<i>Ting-En Lee, Juhng-Perng Su, Ker-Wei Yu</i>	
Fuzzy Gain Scheduling PID Control Design Based on Particle Swarm Optimization Method	1355
<i>Ker-Wei Yu, Jia-Hao Hsu</i>	
Auto-Tuning Fuzzy Power Control for Multi-Rate WCDMA Systems.....	1359
<i>Jiun-Ming Wu, Ching-Huei Jaing, Ching-Huang Pan, Chun-Chyuan Chen</i>	
LMI-Based Mixed H_2 / H_∞ Control of Second-Order Neutral Systems with Time-Varying Delays	1363
<i>Hamid Reza Karimi, Huijun Gao</i>	
H_2 and H_∞ Controllers Design for an Active Suspension System Via Riccati Equations and LMIs	1367
<i>Zahra Aghaie, Ramin Amirifar</i>	
Robust H_∞ Controller Design for a Bilateral Teleoperation System Via LMIs	1371
<i>M. Sha Sadeghi, H. R. Momeni, R. Amirifar, S. Ganjefar</i>	
Delay-Dependent Stabilization of LPV Systems with Time-Varying Input Delay	1375
<i>Junling Wang, Peng Shi, Huijun Gao, Junming Wang</i>	
Relation Between Model Feedback Control Systems And The Parametrization of All Stabilizing Controllers for Multiple-Input/Multiple-Output Plants.....	1379
<i>Kou Yamada, Hideharu Yamamoto, Nan Li</i>	
A Design Method of Simple Multi-Period Repetitive Controllers	1383
<i>Kou Yamada, Hiroshi Takenaga</i>	
Design of Power Assisted Wheelchair Based on Torque Observer.....	1387
<i>Jin-Chyz Ou, Tien-Chi Chen</i>	
Stability and Stabilization of Networked Control Systems with Control Input Quantization	1391
<i>Yafeng Guo, Shaoyuan Li</i>	
Information Analysis in Joint Problem of Continuous-Discrete Filtering, Interpolation and Extrapolation with Memory Observations	1395
<i>N. Dyomin, S. Rozhkova</i>	
Multi-Valued Implicit Complementarity Problems: Perturbation Algorithm	1399
<i>Vyacheslav Kalashnikov, Nataliya Kalashnykova, Aarón Arévalo Franco</i>	
Stackelberg Equilibrium in a Mixed Duopoly	1403
<i>Vyacheslav Kalashnikov, Alvaro Eduardo Cordero, Vitaly Kalashnikov</i>	
Optimal Filtering for Linear Systems: Kalman-Bucy Versus Risk-Sensitive.....	1407
<i>Aracelia Alcorta-García</i>	

Robust Nash Strategies based on Integral Sliding Mode Control for a Two Players Uncertain LQ Game.....	1411
<i>Manuel Jiménez-Lizárraga, Leonid Fridman</i>	
Optimal Filtering for Incompletely Measured Polynomial States Over Linear Observations.....	1415
<i>Michael Basin, Dario Calderon-Alvarez, Mikhail Skliar</i>	
Optimal Joint State Filtering and Parameter Identification for Linear Systems.....	1419
<i>Michael Basin, Dario Calderon-Alvarez, Mikhail Skliar</i>	
Structural Computing of Hamada Parameters for Carbon Nanotubes Processed by Microwave Heating	1423
<i>Oxana Vasilievna Kharissova, Jesus Rangel-Cardenas, Mauricio Garza Castañon</i>	
In Search of Microarray Design Decision Support System	1427
<i>Yen-Chen Chen, Wen-Dar Lin, Yun-Ching Chen, Jan-Ming Ho</i>	
Protein-Protein Interaction Prediction Based on Association Rules of Protein Functional Regions	1431
<i>Hung Fei-Hung, Chiu Hung-Wen</i>	
Combinatorial Topology-Based Semantic Clustering Applied to PubMed	1435
<i>Wen-Wen Yang, I-Jen Chiang, Ruey-Ling Yeh, Hsiang-Chun Tsai</i>	
Apply Grid Computation for Population-Based Health Claims Analysis.....	1439
<i>Yung-Tai Yen, Chien-Yeh Hsu</i>	
Implementation of a Web-Based SCORM-Compliant Authoring System.....	1443
<i>Chon-Kit Leong, Chien-Tsai Liu</i>	
Artificial Neural Network Analysis on Suicide and Self-Harm History of Taiwanese Soldiers.....	1447
<i>Yueh-Ming Taia, Hung-Wen Chiua</i>	
A DNA Sequence Design for Direct-Proportional Length-Based DNA Computing using DNASequenceGenerator	1451
<i>Zuwairie Ibrahim, Tri Basuki Kurniawan, Marzuki Khalid, Osamu Ono</i>	
Emerging Methods of Biometrics Human Identification.....	1455
<i>Michał Choras</i>	
Biological Model of Flagella Motor	1459
<i>Hiroyuki Matsuura, Masahiro Nakano, Kazuharu Koide, Nobuo Noda</i>	
Flow Analysis of Air Around the Pipe Inlet	1463
<i>Nobuo Noda, Masahiro Nakano, Hiroyuki Matsuura</i>	
Population Dynamics in Population Decline Society.....	1466
<i>Kazuharu Koide, Nobuo Noda, Hiroyuki Matsuura, Masahiro Nakano</i>	
Possibility of Health Supporting System Using Oriental Medicine	1469
<i>Tadashi Watsuji, Shoji Shinohara, Seizaburo Arita</i>	
Magnetic Fluid Behavior Under External Fields in View of Medical Applications	1473
<i>Yusuke Uozumi, Nobuhito Tonohata, Minoru Imamura, Masahiro Nakano, Hiroyuki Matsuura, Nobuo Noda, Kazuharu Koide</i>	
Dynamics of Magnetic Fluid Aimed for Local Drug Delivery Systems	1477
<i>Masahiro Nakano, Hiroyuki Matsuura, Dong-ying Ju, Yusuke Uozumi, Kazuharu Koide, Nobuo Noda, Pei Bian, Ken-ich Makino</i>	
Stokesian Dynamics Simulation of Nano-Magnets Under External Magnetic Field.....	1481
<i>Hiroshi Irisa, Takehiko Yokomine</i>	

Evolution Analysis of the Tiny Gene Duplication	1485
<i>Ken-ichi Makino, Hideyasu Hirano, Tomonaga Kenta, Masahiro Nakano</i>	
Adaptive Observer for Biological Clock of Crassulacean Acid Metabolism with Partial States	1488
<i>Masayuki Oka, Yusuke Totoki, Haruo Suemitsu, Takami Matsuo</i>	
A Time-Varying Elasticity Production Function Model with Urbanization Endogenous Growth: Evidence of China	1492
<i>Bing Xu, Junzo Watada</i>	
Textile Web Defect Inspection by Feature Analysis Method.....	1496
<i>Zalili Musa, Tuty Asmawaty Abd Kadir, Abdul Kadir, Rohani Abu Bakar</i>	
Impact of Traffic on Multi Service IP Based Applications.....	1500
<i>Norrozila Sulaiman, Rolando Carrasco, Graeme Chester</i>	
Enhancing Thinning Method for Malaysian Car Plates Recognition.....	1504
<i>Nor Amizam Jusoh, Jasni Zain, Tuty Asmawaty Abd Kadir</i>	
Estimation of Reporting Tax Errors for Chinese Personal Income Based on Errors-In-Variables Model	1508
<i>Neng Jin, Yafen Ye</i>	
Transmission System Expansion Plans in View Point of Deterministic, Probabilistic and Security Reliability Criteria	1512
<i>Jaeseok Choi, Timothy Mount, Robert Thomas</i>	
Transmission System Expansion Planning Considering Outage Cost.....	1517
<i>Jaeseok Choi, Junmin Cha, Junzo Watada, T. D. Mount, R. Thomas</i>	
On-Line Learning of Evolving Neural Models for Process Identification and Abnormality Detection	1521
<i>Gancho Vachkov</i>	
A DNA Computing Approach to Cluster-Based Logistic Design.....	1525
<i>Rohani Binti, Abu Bakar, Junzo Watada</i>	
Structured Development of DHTML Programs from Abstract Ideas Based on the Equivalent Transformation Framework.....	1529
<i>Courtney Powell, Kiyoshi Akama</i>	
The Evaluation of Intellectual Capital in a Taiwan Hospital	1533
<i>Mei-Chiao Lai, Tsai Lin Huang, Wu-Der Tsay</i>	
A Parallel Decoder Design for Low Latency Turbo Decoding	1537
<i>Ya-Cheng Lu, Erl-Huei Lu</i>	
Stabilization of Discrete-Time Linear Systems with Markov Switching in the Presence of Delays in Transmission of the Date.....	1541
<i>Vasile Dragan, Toader Morozan</i>	
The CF Graphic Category Structure in Intelligent Transport	1545
<i>Zou Kai-qi, Shi Hui-qin</i>	
Research on the Method of Classification for an Underwater Target Based on Echo Highlight Number	1549
<i>Cui Huailin, Liu Zhaohui, Chen Shaohua, Li Zhishun</i>	
The Construction of Stock's Portfolios by Using Particle Swarm Optimization	1553
<i>Jui-Fang Chang, Shu-Wei Hsu</i>	
A Novel Optimization Approach: Bacterial-GA Foraging	1557
<i>Tai-Chen Chen, Pei-Wei Tsai, Shu-Chuan Chu, Jeng-Shyang Pan</i>	

Consideration of Crustal Deformation in the Adjacent Areas of Plate Boundary	1561
<i>Atsushi Iwashita, Muhtar Qong, Hisatoshi Baba, Maranao Hara, Toshikazu Morohoshi, Marina Kudo, Yu-Feng Lin, Wen-Qing Jiang</i>	
Decision Analysis of Fuzzy Partition Tree Applying Fuzzy Theory	1565
<i>Kimiaki Shinkai, Hajime Yamashita, Shuya Kanagawa</i>	
Fuzzy Clustering Level Analysis Using AIC Method for Large Size Samples.....	1569
<i>Shuya Kanagawa, Hiroaki Uesu, Kimiaki Shinkai, Ei Tsuda, Hajime Yamashita</i>	
Exchange Probability and Convergence Characteristics of Genes in Inversion in GA	1573
<i>Yoshitsugu Noto, Yoshinori Ueda, Masayuki Matsumoto, Akira Satoh, Hajime Yamashita</i>	
Semi-Soft Decision Decoding Based on Correspondence Between Error Patterns and the Relative Test Patterns	1577
<i>Hsin-Kun Lai, Erl-Huei Lu</i>	
Mixture Experiment Design Using Artificial Neural Networks and Electromagnetism-Like Mechanism Algorithm	1580
<i>Hsu-Hwa Chang, Teng-Yi Huang</i>	
Speed Sensorless of an Induction Motor Using Self-Tuning Fuzzy Identification	1584
<i>Chun-Jung Chen, Tien-Chi Chen</i>	
Adaptive Estimation of Friction Forces Under a Sector Condition.....	1588
<i>Kouichi Mitsunaga, Takami Matsuo</i>	
Identifying the Change Point of a Process with the Integration of SPC Charts and Neural Networks	1592
<i>Yuehjen E. Shao, Chien-Ho Wu, Bin-Yih Ho, Jeng-Fu Liu</i>	
A Coevolutionary System for Development of Strategies in Poker Game	1596
<i>Jun-ichi Kushida, Noriyuki Taniguchi, Yukinobu Hoshino, Katsuari Kamei</i>	
Brain Activity Comparison of Different-Genre Video Game Players	1600
<i>K. Saito, N. Mukawa, M. Saito</i>	
Brain Activation During Visuo-Spatial Memory Task: An fMRI Study	1604
<i>Takayasu Ando, Keiko Momose, Keita Tanaka, Keiichi Saito</i>	
fMRI Analysis of the Effect of Background Image Combined with Face Image	1608
<i>Takamasa Shimada, Tadanori Fukami, Yoichi Saito</i>	
Nonlinear Characteristics of Auditory Steady-State Responses in MEG	1612
<i>K. Tanaka, M. Kawakatsu, I. Nemoto</i>	
Experience with Quality Assurance Programming for Helical TomoTherapy	1616
<i>Pei-Ju Chao, Tsair-Fwu Lee, Stephen Wan Leung, Ying-Chen Chang, Tze-Liang Huang, Fu-Min Fang</i>	
Object-Oriented Foreground Image Extraction.....	1620
<i>Yea-Shuan Huang, Fang-Hsuan Cheng</i>	
Tracking of Moving Objects by Using a Low Resolution Image.....	1624
<i>Budi Sugandi, Hyoungseop Kim, Joo Kooi Tan, Seiji Ishikawa</i>	
A New Concept of Drive Recording System by Estimating Human Intention Using Particle Filters	1628
<i>Norikazu Ikoma, Kazuhiko Kawamoto, Hideaki Kawano, Hiroshi Maeda, Kohei Matsuda, Kazutoshi Akahoshi</i>	
The Study of Supply Chain Network Equilibrium Model with Contracts.....	1632
<i>Chunxian Teng, Yinxia Hu</i>	

Pricing Strategy of Supply Chain System Based on Complexity Analysis and Theory of Constraints.....	1637
<i>Lin-du Zhao</i>	
Web Service Recommendation with Ontology-Based Similarity Measure	1641
<i>Haoxiang Xia, Taketoshi Yoshida</i>	
Application of Fuzzy Assessment Method to Emergency Response Capability in Hazardous Materials Transportation	1645
<i>Hongyan Shang, Xuping Wang, Xiaodong Liu</i>	
How to Build Successful Sponsorship Relationships: A Text Mining Approach.....	1649
<i>Lu-cheng Huang, Ting-ting Zhou</i>	
E-Commerce Customer Feature Extraction Based on Ontology	1653
<i>Li Nan, Chen Yan</i>	
The Model of Anonymous Fair e-Cash Transactions Protocol with Off-Line TTP	1657
<i>Qian Wang, Chao-yang Li</i>	
On Convexity of Service-Level Measures of the Discrete (r, Q) Inventory System.....	1661
<i>Ming-Zheng Wang, Wen-Li Li</i>	
An Integration System of Video-Based Interaction and Online Negotiation in Real-Time Processing of e-Commerce Order	1665
<i>Xiangpei Hu, Qiao Cheng, Minfang Huang</i>	
Research on Plant Growth Simulation Algorithm Based on Finite Element Method.....	1669
<i>Li Tong, Su Weiling</i>	
Predicting Customer's Preference in e-Commerce Recommendation System: A Genetic Algorithm Approach.....	1673
<i>Tao Lu, Ting Li</i>	
Statistical Versus Transform Methods: An Experimental Comparison of Vehicle Plate Location Detection for a Multi-Camera Tracking System	1677
<i>Zalili Binti Musa, Junzo Watada</i>	
A System Dynamics Simulation Approach for Military Supply Chain Management.....	1681
<i>Pei-Chan Chang, Chin-Yuan Fan, Wei-Hsiu Huang</i>	
Non-Deterministic Algorithm for Routing Optimization: A Case Study	1685
<i>Don Jyh-Fu Jeng, Junzo Watada</i>	
Egg's Bloodspot Detection Using Image Processing.....	1689
<i>W. Syahrir, A. Suryanti, N. S. Nurul Ain</i>	
The Dynamic KNN Clustering of Undergraduate Consumption With Gini Coefficient: A Case of Zhejiang.....	1693
<i>Zuguang Hu, Bing Xu, Lingling Pan, Shangfeng Zhang, Juying Zeng</i>	
On Stock Market and Macroeconomic Variables: Evidences from Four Asian Tigers.....	1697
<i>Chuang-Yuang Lin, Ming-Way Li, Chih-Wei Liu</i>	
An Attribute-Based Financial Evaluation Method for e-Business Enterprises	1701
<i>Yunfu Huo, Weiling Su, Deli Yang</i>	
Adaptive Steering Controller to Improve Handling Stability of Combined Vehicles	1705
<i>Qiang Wang, Masahiro Oya, Katsuhiro Okumura, Toshihiro Kobayashi</i>	
Shape Memory Alloy Actuator with Simple Adaptive Control.....	1709
<i>Makoto Kumon, Ikuro Mizumoto, Zenta Iwai, Akifumi Indou</i>	
Design of a Data-Driven Performance-Adaptive PID Controller	1713
<i>Takayuki Kono, Toru Yamamoto, Takao Hinamoto</i>	

Self-Repairing and Tracking for Systems with Sensor Failures	1717
<i>Masanori Takahashi</i>	
Adaptive Output Feedback Control Design for Exponentially Passive Systems with a PFC and its Application to a Magnetic Levitation System.....	1721
<i>Ikuro Mizumoto, Shinya Ohishi, Zenta Iwai</i>	
Adaptive Model Predictive Control for Max-Plus Linear Systems Taking Account of Feedback Properties.....	1725
<i>Shiro Masuda</i>	
The Application of Fuzzy Logic on Transition Manoeuvre Control of a New Ducted-Fan VTOL UAV Configuration.....	1729
<i>Zamri Omar, Cees Bil, Robin Hill</i>	
Uniform Current Distribution Control Using Fuzzy Logic for Parallel Connected Non Identic DC-DC Converters.....	1733
<i>B. Suprianto, M. Ashari, M. H. Purnomo, M. Pujiantara, H. Suryo Atmojo</i>	
Applying Fuzzy Set Theory on New Product Launch Decisions for Internet Commerce	1737
<i>Lily Lin</i>	
A New Model of the Relationship between Number of Entrepreneurs and Factor Substitution.....	1741
<i>Ming-Wen Hu</i>	
A Fuzzy Software Quality Assessment Model to Evaluate User Satisfaction	1745
<i>Lily Lin, Huey-Ming Lee</i>	
Analysis of Algorithm of Cipher Text Containing Data and Key in Network Security	1749
<i>Huey-Ming Lee, Tsang-Yean Lee</i>	
Trade Equilibrium Model in an Imperfectly Competitive Market.....	1753
<i>Lily Lin, Chizuru Shono</i>	
Uni-Direction Orienting and Size Effect Automatic Alignment Using Capillary Based in Fluidic Self-Assembly Process.....	1757
<i>Cheng Lin, Fangang Tseng, Ching-Chang Chieng</i>	
Dynamic Clone Population Based Artificial Immune System.....	1761
<i>Hongwei Dai, Yunyi Zhu, Shangce Gao, Zheng Tang</i>	
A Fault Diagnosis Method Based on Clone and Mutation Mechanisms	1765
<i>Dou Wei, Liu Zhan-sheng</i>	
A Rule-Based Genetic Algorithm for the Inter-Feeder Load Transfer in the Multiple Outages of Electrical Distribution Systems.....	1771
<i>Jaw-Shyang Wu, T.E. Lee, Yi-Jiun Lin</i>	
Wind Aerator.....	1775
<i>Tsai-Cheng Li, Huan-Wen Wu, Herchang Ay</i>	
The Heat Transfer Performance of Diamond Pins with Coanda Effect on a Heat Sink.....	1779
<i>Herchang Ay, Jyun-Jie Hsieh, Wenkai Jiang</i>	
Boundary Estimation in The Inverse Natural Convection Problems	1784
<i>Meei-Jy Shiau, Ching-Yu Yang</i>	
The Thermal Effect of Non-Adiabatic Heat Recirculating Combustors	1788
<i>Chun-Hsien Kuo, Paul D. Ronney, Sheng-an Yang, F. Peter Tsai, Tzu-Chen Hung</i>	
Optimizing a Stochastic Warehouse Using Particle Swarm Optimization	1792
<i>O. Brodersen, M. Schumann</i>	

Motion Estimation Using Gradient Orientation Structure Tensors	1796
<i>Toshiaki Kondo</i>	
Study and Implement of a Specialized Monitoring System (SMS) to Orient Decisions and Reduce Losses in the Public Water Supply Systems	1800
<i>Flavio Trojan, Rui Francisco Martins Marçal</i>	
Research on Sea-Sky-Line Detection in Complex Sea Background	1804
<i>Yuan Gao, Shaohai Hu, Zhenjiang Miao, Shuwen Xu</i>	
An Improved Algorithm on Image Stitching based on SIFT Features	1808
<i>Jing Xing, Zhenjiang Miao</i>	
A Similarity Measuring Method for Images Based on the Feature Extraction Algorithm Using Reference Vectors	1812
<i>Asako Ohno, Hajime Murao</i>	
Robust Incipient Fault Diagnosis Methods for Enhanced Aircraft Engine Rotor Prognostics	1816
<i>Zhongsheng Wang, Hongkai Jiang</i>	
3D Image Reconstruction from Limited Projections by Simulated Annealing	1820
<i>Yen-Wei Chen, Tetsuya Kohatsu</i>	
Digital Technique to Generate Variable and Multiple PWM Signals	1824
<i>Sawai Pongswatd, Amphawan Chaikla, Prapart Ukkimapurn, Kitti Tirasesith</i>	
A Study on Web Resources' Navigation for e-Learning: Usage of Fourier Domain Scoring on Web Pages Ranking Method	1828
<i>Diana Purwitasari, Yasuhisa Okazaki, Kenzi Watanabe</i>	
Forecasting Monthly Sales of Cell-Phone Companies - The Use of VAR Model	1832
<i>Hsueh-Fang Chien, Shu-Hua Lee, Lee Wen-chih, Yann-ching Tsai</i>	
Multiuser Detections Based on Global Optimality Necessary Conditions for Binary Quadratic Programming	1836
<i>Wenlong Liu, Shuxue Ding</i>	
LMI-Based Frequency Estimator with Averaging	1840
<i>Kentaro Adachi, Haruo Suemitsu, Takami Matsuo</i>	
Pulse Identification Based on Methods of Extension Evaluation	1844
<i>Zhilong Li, Yongquan Yu, Yinai Sun, Yi Qin</i>	
Energy Saving Policy for CMP System Based on M/M/c Queue with Synchronous Vacations	1848
<i>Lei Miao, Yong Qi, Di Hou, Yuehua Dai</i>	
Improvement and Evaluation of SPH on High Dimensional Vector for Geographical Origin Identification System for Vegetables by Trace Elements	1853
<i>Nobuyoshi Sato, Minoru Uehara, Koichiro Shimomura, Hirobumi Yamamoto, Kenichi Kamijo</i>	
Detecting Incorrect Rules Automatically in Equivalent Transformation Programs	1857
<i>Shinya Miyajima, Kiyoshi Akama, Hiroshi Mabuchi, Yuya Wakamatsu</i>	
Interval-Valued Stochastic Processes and Stochastic Integrals	1862
<i>Jinping Zhang</i>	
Application of Graphic Program Language and RCP in Flight Simulator Prototype System	1866
<i>Shutao Zheng, Liwen Wang, Junwei Han, Xiuhua Li</i>	
Creation of ET Rules via Logical Equivalence	1871
<i>Katsunori Miura, Kiyoshi Akama, Hiroshi Mabuchi</i>	

Design and Validation of Aeroengine Control System with Non-Fully Recovering LQG/LTR Method	1875
<i>Haiquan Wang, Yingqing Guo, Jun Lu</i>	
Measurement and Analysis of Brain Activation During a Driving Task	1879
<i>Tao Shang, Baoru Wang, Shengnan Zhang, Shuoyu Wang</i>	
A New Image Mosaics Algorithm Based on Feature Points Matching	1883
<i>Gao Guandong, Jia Kebin</i>	
A Novel Trajectory Pattern Learning Method Based on Sequential Pattern Mining	1887
<i>Hejin Yuan, Yanning Zhang, Cuiru Wang</i>	
An Energy-Aware Cluster Protocol for Wireless Sensor Networks	1891
<i>Gu-ping Zheng, Yu Zhou</i>	
Software Development of Electric Machine Testing System and Reusability Design	1895
<i>Liwei Guo, Zhongjie Wang, Miao Wang, Guoqing An, Xueguang Chen</i>	
Chaotic Inertia Weight in Particle Swarm Optimization	1899
<i>Yong Feng, Gui-Fa Teng, Ai-Xin Wang, Yong-Mei Yao</i>	
Fuzzy Adaptive Fault Tolerant Sliding Mode Control for SISO Nonlinear Systems	1903
<i>Weidong Chen, Shaocheng Tong</i>	
Robust Fault Tolerant Direct Adaptive Fuzzy Control via Backstepping	1907
<i>Weidong Chen, Yongming Li, Shaocheng Tong</i>	
A Model Embedded the Intelligent Scheduling System for Steelmaking Production Process	1911
<i>Xiuying Wang, Tianyou Chai, Jinfei Sun</i>	
A New Unified Power Flow Fuzzy Control Method	1915
<i>Baochun Lu, Li Hou, Baoguo Li, Yi Liu</i>	
Research on the Planning Model and its Genetic Algorithm of the Road Network Programming	1919
<i>Xiaoli Lu, Xinlian Xie, Wanhai Zhou</i>	
An Improved Over-Issued CRLs Method	1923
<i>Juan Zhao, San-ping Tang</i>	
Dynamic Analysis of China Logistics Agglomeration Based on Clustering Analysis	1927
<i>Chun-he Yang, Wen-jie Zhang, Yi-song Li, Li-qi Tian</i>	
Autocorrection of Noise Text Based on Modularity Optimization	1932
<i>Zhao-Guo Xuan, Hao-Xiang Xia, Yan-Zhong Dang, Fang-Li Liu</i>	
Using Case-Based Reasoning and Social Trust to Improve the Performance of Recommender System in e-Commerce	1936
<i>Yanhong Guo, Guishi Deng, Guangqian Zhang, Chunyu Luo</i>	
Diffusion of Mobile Commerce Application in the Market	1940
<i>Hao Huang, Lu Liu, Jianjun Wang</i>	
Dynamic Matching Operation in SDN	1945
<i>Caihong Liu, Fuyuan Xu</i>	
An Integrative Cost Management Method and its Application in Iron and Steel Industry	1949
<i>Qiunan Meng, Dongjuan Xue, Xiaobing Liu, Yanrong Gong</i>	
A Distributed and Hierarchical Government Organization Model in Inter-Organizational Business Integration	1953
<i>Qiu Jiangnan, Tian Jiang, Ye Xin</i>	

A Mutual Authentication Model between Merchant and Consumer in M-Commerce	1957
<i>Mingqiu Song, Jiahua Li, Xintao Wu</i>	
The Application of Bayesian Method in Image Segmentation	1961
<i>Yong-li Li, Li-yan Dong, Wei-zhou Guan, Zhen Li, Ling-yan Zhou</i>	
Research of Anti-Spam Application Architecture Based on Semantic Grid	1966
<i>Zhan-ting Yuan, Qiu-yu Zhang, Dan Li, Ye Liu</i>	
A Novel Wavelet Packet Speech Enhancement Algorithm Based On Time-Frequency Threshold	1970
<i>Yaohua Xu, Gang Wang, Ying Gu, Haiyang Liu</i>	
DOE-Based Hybrid Automatic Process Control for Variation Reduction	1974
<i>Liang Ye, Ershun Pan, Lifeng Xi</i>	
Global Exponential Stability of A Class of Neural Networks with Finite Distributed Delays.....	1978
<i>Deyou Liu</i>	
Uniform Asymptotic Controllability to a Set Implies Semiconcave Control-Lyapunov Function	1982
<i>Xiaowu Mu, Fengjun Tang</i>	
Fault Prediction System Based on Neural Network Model	1986
<i>Bin Li, Wei-guo Zhang, Dong-fang Ning, Wei Yin</i>	
An ECG Segmentation Model Used for Signal Generator	1990
<i>Jianjian Wang, Zheyng Li</i>	
Research on the Low Power Dissipation of Pipeline ADC.....	1994
<i>Bo Li, Zheyng Li, Tingting Chen</i>	
Adaptive Elimination of Ionospheric Contamination for HF Skywave Radars	1998
<i>Hou Chengyu, Shen Yiyng, Liu Yongtan</i>	
Reconstruction of Super-Resolution Spectra for the Beamformed Data in HF Skywave Radar.....	2002
<i>Hou Yuguan, Shen Yiyng, Liu Yongtan</i>	
Fault Forecast and Diagnosis of Steam Turbine Based on Fuzzy Rough Set Theory	2006
<i>Qinglin Guo, Kehe Wu, Wei Li</i>	
The Research and Realization About Question Answer System Based on Natural Language Processing.....	2010
<i>Qinglin Guo, Kehe Wu, Wei Li</i>	
Research on Improved Four-Step Commutation Strategy of Matrix Converter Based on Two Line Voltage Synthesis	2014
<i>Xing-he Ma, Guo-jun Tan, Xiao-lan Wu, Yong-li Fang, Xiao Zhang, Yao-fei Han</i>	
Improve Recommendation By Trust Mechanism: From Perspective Of Web 2.0	2019
<i>Qing Ye, Li Zhang</i>	
Fast IGMRES(m) Method Based on the Frictional Contact FM-BEM and its Convergence	2023
<i>Yunfeng Mu, Chunxiao Yu</i>	
Shape Constancy Computation Based On Visual Perception Theory	2027
<i>Li Xi, Li Bing, Xu De, Lu Rui</i>	
Passive Wake-Up Scheme for Wireless Sensor Networks.....	2031
<i>Shan Liang, Yunjian Tang, Qin Zhu</i>	
Adaptive Observer-Based Fault Diagnosis with Application to Satellite Attitude Control Systems.....	2035
<i>Ke Zhang, Bin Jiang, Peng Shi</i>	

A Two-Stage Bargaining Model of Resources Allocation	2039
<i>Wei Zhao, Jie-Sheng Huang</i>	
A Novel ECT System Based on FPGA and DSP	2043
<i>Xuehui Zhang, Huaxiang Wang, Ziqiang Cui, Lei Tang</i>	
Monitoring and Optimum Alignment of Kiln Axis	2047
<i>Yu Shi, Yougang Xiao, Xuejun Li</i>	
Optimal Portfolio Strategies in a Vasicek Framework	2051
<i>Shuping Wan</i>	
Secure Key-Insulated Proxy Signature Scheme for Mobile Agent	2055
<i>Xuan Hong, Kefei Chen</i>	
The Nonlinear System Design Technique Based on Dynamic Equilibrium State Theory	2059
<i>Hong Jin, Li Wang</i>	
Behavior Description and Environment Modelling for Wheeled Mobile Robots of Home Service	2063
<i>Xuefeng Dai, Ming Yin, Yan Shi</i>	
Study on Fuzzy Clustering Algorithm with Applications for the Intelligent and Efficient Automated Handling Container Terminal.....	2067
<i>Shilong Xue</i>	
Development of Direct Current Motor Control System Based on Embedded Linux System.....	2071
<i>Lei Luo, Xuefeng Dai, Yan Shi</i>	
Transitive Trust to Executables Generated During Runtime	2075
<i>Xiao-Yong Li, Zhen Han, Chang-Xiang Shen</i>	
Distributed Application Integration Based on Agent Grid Intelligent Platform.....	2079
<i>Maoguang Wang, Zhongzhi Shi, Jiewen Luo, Li Zeng</i>	
The Research on Automatic Construction of a Chinese Conceptual Network and its Application in Text Retrieval	2083
<i>Yi Hu, Ruzhan Lu, Yuquan Chen, Hui Liu, Dongyi Zhang</i>	
Robust Parameter-Dependent Constrained Model Predictive Control.....	2087
<i>Yuanqing Xia, J. Chen, P. Shi, G. P. Liu</i>	
Use Support Vector Machine to Evaluate the Operational Effectiveness of Radar Jammer	2091
<i>Shouda Jiang, Lianlei Lin</i>	
A Simple Method of Computing Signal Order Tracking Fast in Time Domain.....	2095
<i>Yang Liu, Shouda Jiang</i>	
Compensation Local Clock's Drift by Timestamp Stream	2099
<i>Quan Yujuan, Liu Guixiong</i>	
Smoothing Algorithm Based on Multi-Scale Morphological Reconstruction for Footprint Image	2103
<i>Shu Yang, Cai-rong Wang, Xue-ying Wang</i>	
One Frame of Expert System for Product Design.....	2107
<i>Wang Chunshan, Teng Guifa, Li Jiuxi, Zheng Zefeng, Song Qiang, Ye Zhenhe</i>	
Adaptive Traffic Signals Control by Using Fuzzy Logic	2111
<i>Ruili Zeng, Gang Li, Ling Lin</i>	
Mining Infrequent Itemsets Based on Multiple Level Minimum Supports	2115
<i>Xiangjun Dong, Zhiyun Zheng, Zhendong Niu, Qiuting Jia</i>	

Research of Fault Diagnosis Distinguishing Technology Based on PCA-Neural Network.....	2119
<i>Qing Hu, Rongjie Wang, Yiju Zhan</i>	
Study on Enhancing Visuality of Parallel Coordinates.....	2123
<i>Lianqiang Niu, Shidong Yu, Shengnan Zhang</i>	
Delay-Independent Stability of Linear Systems with Multi-Delays in States	2127
<i>Zhiwen Wang, Ge Guo, Dongsong Luo</i>	
The Online Monitoring of the Dynamic Characteristics for an Induction Motor and Gearbox Transmission System.....	2131
<i>Chunyu Zhao, Zhaojun Ren, Xiaohong Zhou, Bangchun Wen</i>	
Developing a Decision Support Model for Information Systems Outsourcing.....	2135
<i>Jian-Jun Wang, Hui-Fen Li, Xin-Jun Diao, De-Li Yang</i>	
The Multi-Objective Optimal Control for Material Testing Machine Force System.....	2139
<i>Qing Hu, Xiaohu Huang, Yiju Zhan</i>	
Media Streaming TCP-Friendly Congestion Control Using Multiple Time Scale Prediction.....	2143
<i>Jun Lu, Rongrong Ni</i>	
An Improved Edge Detection Algorithm Based on Area Morphology and Maximum Entropy	2147
<i>Shuyu Li, Fang Pu, Deyu Li</i>	
Study on Intelligent Speed Adaptation Impact of Driving Safety Based on Simulation.....	2151
<i>Wang Chunshan, Li Jiuxi, Teng Guifa, Chang Shuhui, Zhao Yang, Wang Fang</i>	
Research of An e-Government Affairs System Flexibility Model Based on Metadata Management	2155
<i>Yongtao Xu, Yanzhang Wang, Xuelong Chen, Feng Ding</i>	
An Immune Based Association Rule Algorithm	2159
<i>Tao Liu</i>	
Deformation of an Elastic Thin Plate in Lateral Flow of Fluid by Using of ULE Method	2163
<i>Yajuan Hao, Xiangzhong Bai, Xiaohua Bo</i>	
Design and Optimization of H.264 Video Encoder on DSP Platform.....	2167
<i>Li Ke, Jia Kebin, Xie Jing, Wang Yan</i>	
Parameter Self-Tuning Based Industrial Batching and Weighting Control System.....	2171
<i>Bailin Hang, Lijuan Jiang, Lianming Sun</i>	
Study on Knowledge Reuse Based on Knowledge Scenario	2175
<i>Zhenqiang Bao, Kaizhou Gao, Wenyu Bian, Xingguo Shi</i>	
Research on the Knowledge Acquirement and Updating in Dynamic Scheduling System.....	2179
<i>Bao Zhenqiang, Li Xiangqing, Gao Kaizhou, Wang Chao</i>	
Preferential Attachment Topology Formation of the P2P IPTV System	2183
<i>Jinkang Jia, Changjia Chen, Chunxi Li</i>	
The Model of Stiff Imperfect Interface and its Application in Interaction Between Dislocation and Interface.....	2187
<i>Shi-Xiang Ma, Hong Hu, Xin-Ming Zhang, Hui Fan</i>	
An Algorithm of Function Optimization Based on Chaotic Attractor.....	2191
<i>Deng Jiuying, Mao Zongyuan, Jiang Yongsheng</i>	
A Soft Classification Algorithm Based on Spectral-Spatial Kernels in Hyperspectral Images	2195
<i>Yanfeng Gu, Ying Liu, Ye Zhang</i>	

The Large-Scale Node Cutting Based on Triangle Dissection.....	2199
<i>Bo Wang, Xuefeng Dai, Yan Shi</i>	
A Novel Instance Matching Based Unsupervised Keyword Spotting System.....	2203
<i>Peng Li, Jiaen Liang, Bo Xu</i>	
Autonomous Navigation for Wheeled Mobile Robots - A Survey.....	2207
<i>Xuefeng Dai, Hongmin Zhang, Yan Shi</i>	
An Improved Elman Network and its Application in Flatness Prediction Modeling.....	2211
<i>Hai-tao He, Xia Tian</i>	
A Speckle Noise Separation Algorithm Based on Non-Linear Mixture Model	2215
<i>Dahui Li, Xuefeng Dai, Yan Shi</i>	
Measuring Overlap-Rate in a Hierarchical Approach for Color Image Segmentation	2218
<i>Zhilong Hong, Qingshan Jiang, Shengrui Wang</i>	
A New Adaptive Median Filter Based on Possibilistic Linear Models for Image Restoration.....	2222
<i>Hongwei Ge, Shitong Wang</i>	
Robust Stability Criteria for Uncertain Stochastic Cellular Neural Networks with Time Delays	2226
<i>Jiqing Qiu, Zhifeng Gao, Jufang Wang, Peng Shi</i>	
Performance Analysis of Scheduling Algorithms in Optical Burst Switching (OBS) Networks	2230
<i>Hongyun Zheng, Changjia Chen</i>	
Interactive Mining of Maximal Constrained Frequent Patterns	2234
<i>Jia-dong Ren, Ya-fei Sun</i>	
An Adaptive Controller for the Temperature of Injection Molding Machine Cylinder.....	2238
<i>Yinghua Song, Yunkuan Wang, Li Gong, Yan Yang</i>	
Research of Distributed Parallel Computing Based on Mobile Agent	2242
<i>Hua Pang, Long Wang, ZhiYong Li, JianHui Wang</i>	
A New Method for Incremental Updating Frequent Patterns Mining	2246
<i>Hai-tao He, Shi-Ling Zhang</i>	
BP Neural Network Structure Optimization Algorithm Based on Polynomial Regression.....	2250
<i>Hong Rao, Ming-fu Fu, Lian Chen</i>	
A Novel Traffic Model for the Analysis of Network Traffic Characteristic	2254
<i>Lingbo Pei, Ming Chen</i>	
Novel Solution of Direction Finding and Polarization Estimation of Multipath Cyclostationary Signals.....	2258
<i>Shi Hongyan, Hu Hong, Shi Yaowu</i>	
Novel On-line Monitoring Method of Cutting Chatter Based on Neural Network Pattern Recognition Technique	2262
<i>Shi Hongyan, Hu Hong</i>	
An X-VRML-Based Description Model of Virtual Science Museum	2266
<i>Shengnan Zhang, Fang Ma, Lianqiang Niu</i>	
The Research of Association Rules Mining and Application in Intrusion Alerts Analysis.....	2270
<i>Guangjun Song, Zhenlong Sun, Xiaoye Li</i>	
A Novel Adaptive Equalizer with DCT Domain Second-Order Volterra Series for Nonlinear Channel	2274
<i>Haiquan Zhao, Jiashu Zhang</i>	

Optimization of A Two-Echelon Distribution System Under Retailers' Different Competitive Behaviors.....	2278
<i>Na Zhao, Guang-qi Sun</i>	
Self-Learning Particle Swarm Optimization Based on Environmental Feedback	2282
<i>Xingjuan Cai, Zhihua Cui, Jianchao Zeng, Ying Tan</i>	
Maximum Twin Shear Stress Factor Criterion for Crack Sliding Initiation.....	2286
<i>Jialin Ji, Huijian Li, Zhenzi Li</i>	
A Hybrid Speech Recognition Training Method for HMM Based on Genetic Algorithm and Baum Welch Algorithm.....	2290
<i>Xueying Zhang, Yiping Wang, Zhefeng Zhao</i>	
State of the Art for Soft Computing Technologies in Mobile Robot Navigation	2294
<i>Hongmin Zhang, Xuefeng Dai, Yan Shi</i>	
Entropy Partition Method and its Verification for Medical Data.....	2298
<i>Jing Chen, Guangcheng Xi, Jianxin Chen</i>	
BP Network Based Mix Proportion Design of Self-Compacting Concrete	2302
<i>Jialin Ji, Qingxin Zhao, Guoliang Yan, Huijian Li</i>	
On Evaluation Criterion of Image Super-Resolution Reconstruction.....	2307
<i>Jian Zhang, Cailun Huang, Xiaoping Fan</i>	
The Research on Fault-Tolerance Method for Grid Resource Reservation	2311
<i>Kai-jian Liang, Quan Liang</i>	
Design of A Short Cartoon Film for Chinese Ancient Story	2315
<i>Zhen Liu</i>	
Delay-Dependent Robust H_∞ Control for Uncertain Discrete-Time Systems with Delay.....	2319
<i>Yiming Chen, Weiwei Su, Jie Chen, Hongxia Sun</i>	
An Attestation on Equality Between a Fourth-Order Variational Inequality of the Second Kind and Boundary Value Problem of Biharmonic Equation	2323
<i>Yiming Chen, Yuhuan Cui, Yongping Zhang, Fengxia Zeng</i>	
Face Recognition Based on DCT and 2DLDA	2326
<i>Hongtao Yin, Ping Fu, Jiaqing Qiao</i>	
A Virus Evolutionary Genetic Algorithm Using Local Selection	2330
<i>Fu Ping, Qiao Jia-qing, Yin Hong-tao</i>	
Anomaly Detection Based on Symmetric Neighborhood Relationship.....	2334
<i>Qu Zhiyi, Zheng Wenxiu</i>	
A Novel Medical Image Registration Algorithm Based on PSO and Wavelet Transformation Combined with 2v-SVM	2338
<i>Anna Wang, Jie Wu, Xinhua Zhang, Ran Tao</i>	
Solving a Multi-Objective Production Scheduling by Genetic Algorithms.....	2343
<i>Jingjing Wu, Wenxian Jiang, Qinghua Kong, Kelin Xu</i>	
The AVR Reconstruction of Rectifying Gangteeth Based on Geometric Active Contour Model.....	2348
<i>Jin-wen Zhu, Fai Ma</i>	
Stability Analysis for Perturbed Discrete Dynamic Interval Systems with Time Delay	2353
<i>Jin-fang Han, Ji-qing Qiu, Jian-hua Zhai</i>	
Analysis on Wintertime Atmosphere Activities in the Northern Hemisphere	2357
<i>Xiu-Hong Wang, Gui-Fa Teng, Wei-Dong Yu</i>	

Pulsed Field Diffraction by a Perfectly Conducting Wedge: Time Domain Approach.....	2361
<i>Yang Wang, Xinwei Zhi, Qinyu Zhang, Naitong Zhang</i>	
Neural Blind Beamformers for Multi-Users	2365
<i>Yanwu Liu, Hongsheng Li, Hui Fan, Rijie Yang</i>	
Variable-Construction of an Adaptive Control System and its Application.....	2369
<i>Li-jun Hao</i>	
Application of The Order for Discrete Fuzzy Numbers In Higher Education Teaching Quality Evaluation	2373
<i>Ji-qing Qiu, Jin-fang Han</i>	
Optimal Portfolio Selection in a CIR Framework with a Solvency Constraint.....	2376
<i>Shuping Wan</i>	
Design of Virtual Directed Storage Network	2380
<i>Wen Desheng, Wen Jia</i>	
A PC-Based System for Automated Iris Recognition Under Open Environment	2384
<i>Huifang Huang, Guangshu Hu, Lietian Ma</i>	
H₂ Control for Discrete-Time System with Multiplicative Controller Gain Variations	2388
<i>Wu Wang, Xianggui Guo, Fuwen Yang, Sixiong Chen</i>	
Modified Interval DEA Method for Economic Evaluation of Distribution Network.....	2392
<i>Yang Fu, Lujie Liu, Rong Hu, Jialin Cao</i>	
Using Complement Register Structure Circuit Against H-O DPA	2396
<i>Haijun Li, Tao Zhou, Huiling Lu, Qiang Sun</i>	
A New Model Solving Multi-Objective Optimization Problems Based on the Evolutionary Algorithm.....	2400
<i>Chun-an Liu</i>	
A Method of Model Construction Optimization Based on Pattern Recognition	2404
<i>Jie Chen, Ling Zhou, A. Aghdam</i>	
A Sparse Fuzzy Lagrange's Interpolative Reasoning Method Based on Geometric Parameter	2407
<i>Wen-yuan Liu, Yong-an Luo, Qing-da Zhang, Bao-wen Wang, Yan Shi</i>	
Research on New Method to Obtain Load Density According to Fuzzy Closeness Analysis Theory	2411
<i>Yang Fu, Lan Zhu, Jialin Cao</i>	
A Generalized Fuzzy Interpolative Method Based on Center of Gravity	2416
<i>Zhi-ru Chen, Zuo-lei Wang, Bao-wen Wang, Yan Shi, Wen-xun Hong</i>	
Theoretical and Experimental Investigation of Detecting Weak Sinusoidal Signals with 4-Sensor Vector Acoustic Intensity Array.....	2420
<i>Chen Shaohua, Xiang Jinglin</i>	
The Study of Membrane Fouling Modeling Method Based on Fuzzy Neural Network for Sewage Treatment Membrane Bioreactor	2424
<i>Jingwen Tian, Meijuan Gao, Wenjiang Liao, Kai Li, Dahang Zhang</i>	
Combination Independent Content Feature with Watermarking Annotation for Medical Image Retrieval	2428
<i>Guoxia Sun, Huiqiang Sun, Xinghua Sun, Shuzhong Bai, Ju Liu</i>	
Friction Compensation Based on Iterative Learning.....	2432
<i>Yan Yang, Yunkuan Wang, Yinghua Song, Li Gong</i>	

Time Domain Transmission Coefficient for a Finitely Conducting Slab	2436
<i>Yang Wang, Peipei Chen, Qinyu Zhang, Naitong Zhang</i>	
Cryptanalysis of a Password-Based Key Exchange Protocol	2440
<i>Xiaodong Zuo, Fengmei Liu, Chuanlun Ren</i>	
Fault Diagnosis for Excitation System Based on Wavelet Analyses	2444
<i>Changcheng Xiang, Xiyue Huang, Zuyuan Yang, Daijun Wei</i>	
Hybrid Calibration of a Five-Axis Robot based on Modeless and Model-Based Methods.....	2449
<i>Daokui Qu, Jintao Wang, Meng Pan, Dianguo Xu, Zhenyu Liu</i>	
Application of Fuzzy Clustering Method in Classifying Steel Companies	2454
<i>Jianfeng Li, Yan Chen</i>	
Applying Multiple Classifier Combination by Clustering and Selection to SoftMan's Perception System	2458
<i>Aizhong Mi, Xuefeng Zheng, Xuyan Tu</i>	
The Diagnosis Method for Converter Fault of the Variable Speed Wind Turbine Based on the Neural Networks	2462
<i>Zhe Wang, Qingding Guo</i>	
An Efficient Signature Scheme Based on Tate Pairing.....	2466
<i>Maocai Wang, Hanping Hu, Guangming Dai</i>	
A New Fuzzy Dominance GA Applied to Solve Many-Objective Optimization Problem.....	2470
<i>Gaoping Wang, JianJun Wu</i>	
Study on Group Decision Making of Intelligent Traffic Control System.....	2474
<i>Yin Zhu, Jun Ma, Junli Wang, Xuejun Niu</i>	
Total Sensitivity Index Calculation via Error Propagation Equation.....	2478
<i>Yi Chen, Bo Li, Cun Yue</i>	
Fusion of MRI and DTI to Assist the Treatment Solution of Brain Tumor.....	2483
<i>Kehong Yuan, Weixiang Liu, Shaowei Jia, Ping Xiao</i>	
Regularized Scatter Measure for Linear Feature Extraction	2487
<i>Weixiang Liu, Kehong Yuan, Guang Zhang, Shaowei Jia, Ping Xiao</i>	
Random Assignment Method Based on Dynamic Constraint and Genetic Algorithm	2491
<i>Fachao Li, Chenxia Jin, Limin Liu</i>	
The Absolute Continuity of Fuzzy Complex Measures.....	2495
<i>Jiqing Qiu, Ting Sun, Yan Shi</i>	
A Sparse Fuzzy Interpolative Reasoning Method Based on Width Similarity	2499
<i>Hong-mei Chen, Zuo-lei Wang, Qing-da Zhang, Shu-Fen Fang</i>	
Quantitative Query Technology of Direction Relationships Based on Open Shape.....	2503
<i>Yongshan Liu, Yang Nan</i>	
A Robust ATM-Based Routing Algorithm in LEO Satellite Communication Networks.....	2507
<i>Zhi-Gang Zhao</i>	
Author Index	