

Proceedings of the 26th Chinese Control Conference

**Zhangjiajie, China
26-31 July 2007**

Volume 1 of 8



IEEE Catalog Number: CFP0740A-PRT
ISBN 10: 7-81124-055-6
ISBN 13: 978-7-81124-055-9

Table of Contents

Efficient Engine Development Using Model Based Development (MBD)	1
<i>Junichi Kako, Soejima Shinichi and Ohata Akira</i>	
Fuzzy Path-Query Algorithm and its Application in PX Absorption and Separation Process	6
<i>Ren Jia, Lei Meizhen and Zhang Yibo</i>	
On Some Non-linear Decreasing Inertia Weight Strategies in Particle Swarm Optimization*	11
<i>Huang Chongpeng, Zhang Yuling, Jiang Dingguo and Xu Baoguo</i>	
On Designing and Implementation of Urban Intelligent Transportation System	15
<i>Lu Yu, Cui Guanxun and Lu Sheng</i>	
Nonlinear Autopilot Design based on Inversion System and Fuzzy Logic	19
<i>Li Haijun, Huang Xianlin and Ban Xiaojun</i>	
Automatic Parking Benchmark Problem: Experimental Comparison of Nonholonomic Control Methods*	23
<i>Horii Masaki and Liu Kangzhi</i>	
Beyond the Small-Gain Paradigm: How to Make Use of the Phase Information of Uncertainty*	28
<i>Liu Kangzhi</i>	
An Approach to Fluctuation Modeling and Filter Design of Vehicle Oil Tank	33
<i>Hai Yin and Zhiyuan Liu</i>	
Improved Resource Discovery Algorithm on Gnutella Based on P2P Networks.....	38
<i>Guo Yutang, Lv Wanli and Luo Bin</i>	
Kinetic Modeling and Spiral Groove Optimization of Medical Micro-Robot.....	42
<i>Liang Liang, Peng Hui and Gan Min</i>	
AMulti-dimension Predictor Based on ANN and Its Application*	47
<i>Wang Tianzhen and Tang Tianhao</i>	
Performance Monitoring, Tuning and Diagnosis of DMC under Stochastic Disturbance.....	52
<i>Li Gang, Wang Qinglin and Huang Biao</i>	
NN-ANARX Structure for Control of Nonlinear SISO and MIMO Systems: Neural Networks Based Approach*	58
<i>Petlenkov Eduard and Belikov Juri</i>	
The Algorithm of Thinning Fingerprint with BP Neural Network.....	65
<i>Ye Mao, Ming Chunping and Li Chuanguang</i>	
Neural Network and Adaptive Inversion for Re-entry Vehicle Control*	69
<i>Li Kefeng, Ren Zhang, Zhang Qingzhen and Liu Chengrui</i>	
The Research of Emotion Cognition Model and its Application	74
<i>Xie Yinggang and Wang Zhiliang</i>	

Discrete-time Adaptive Iterative Learning from Different Tracking Tasks with Variable Initial Conditions*	80
<i>Chi Ronghu, Hou Zhongsheng and Sui Shulin</i>	
Humanized Clothing Recommendation System Based on Fuzzy Set Theory*	85
<i>Xie Yinggang, Wang Zhiliang and Zhang Qing</i>	
Closed Form Solutions for Matrix Linear Systems Using Double Matrix Exponential Functions*	91
<i>Zhou Bin and Duan Guangren</i>	
Modeling and Analysis of SMT Motion Control System*	96
<i>Zhang Yachen, Hu Yueming and Yuan Peng</i>	
On SCTP Traffic Chaotic Control*	100
<i>Liu Runjie, Shen Jinyuan and Mu Weixin</i>	
Multi-Target Identification in Intracellular Regulation Networks*	104
<i>Zhou Tong and Li Shao</i>	
Rotor Magnetic Field Oriented Control for Bearingless Induction Motors	109
<i>Zhu Huangqiu, Li Feng, Pan Wei and Sun Xiaodong</i>	
Stability Analysis for Spatially Distributed Dynamic Systems*	113
<i>Zhou Tong</i>	
Kernel-based Nonlinear Fit with Total Least Square(TLS) Method	118
<i>Hu Guanghua and Fu Guanghui</i>	
A Switching Control Scheme for the Synchronization of Serially Connected Multi-Stage System	123
<i>Lu Di, Shen Tielong and Fu Minyue</i>	
Experimental Analysis and Control-Oriented Modeling for Cyclic Variation of Cylinder Pressure in IC Engines*	128
<i>Li Po, Shen Tielong and Oguri Yasufumi</i>	
Fuzziness in Covering Generalized Rough Sets	133
<i>Xu Weihua and Zhang Xiaoyan</i>	
NBTRL: A Software Platform for Network Background Traffic Replay Based on Log*	138
<i>Zhao Kuo, Tang Kuo, Chu Jianfeng and Hu Liang</i>	
The Grey Predictive Control on Grate Cooler System	143
<i>Wang Xiaohong, Wu Shuqin, Shen Tao and Fan Yong</i>	
Structural Insights and Constructive Procedures for Multidimensional Realization and LFR Uncertainty Modeling	147
<i>Xu Li</i>	
An Intelligent Control System for Continual Carbonation Decomposition Process	152
<i>Hu Zhikun, Gui Weihua, Yang Chunhua, Zhang Zuoliang and Wang Xiaoli</i>	
Traffic Flow Forecasting Based on Fuzzy-Neural*	157
<i>Huang Hongqiong and Tang Tianhao</i>	

Reinforcement Strategy Using Quantum Amplitude Amplification for Robot Learning*	161
<i>Dong Daoyi, Chen Chunlin and Li Hanxiong</i>	
Output Disturbance Decoupling Control of SISO Nonlinear Systems with Time Delay in State Variable	166
<i>Bin Yang, Chen Ken and Chen Nana</i>	
The Mathematical Model of A Novel Linear Actuator and its Control Strategy	172
<i>Zhang Qingxin, Zhang Hongmei and Wang Fengxiang</i>	
A New Control Approach of Output Probability Density Functions for Dynamic Stochastic Systems Using Parzen Window Estimate*	176
<i>Yang Chengzhi</i>	
A Matrix Converter Modulation Based on Mathematical Construction*	182
<i>Su Mei, Yu Yue, Sun Yao and Gui Weihua</i>	
Adaptive Control for Real-time Computing System	186
<i>Chen Yi, Gao Ge and Liu Hao</i>	
Identification for Hammerstein Systems Using Extended Least Squares Algorithm*	189
<i>Zhao Wenxiao</i>	
Observer-Based Fault Detection for Delta Operator Systems	194
<i>Zhang Duanjin and Zhang Ailing</i>	
An Adaptive Immune Algorithm Based on Regulation Laws of Hormone in the Endocrine System for Scheduling Problems of Flow Shop*	198
<i>Wang Yi, Gu Xingsheng and Xu Zhenhao</i>	
Design of an H∞-Optimal FOPI Controller Using Particle Swarm Optimization	202
<i>Zamani Majid, Karimi Ghartemani Masoud and Sadati Nasser</i>	
Parametric Identification of Input-delay Systems with Unknown Time Delay	208
<i>Najafi Majd Aldin, Kamali Marzieh and Askari Javad</i>	
Wavelet Neural Network Disturbance Observer-based Adaptive Robust Tracking Control for Servo System	213
<i>Wang Hongyan, Wang Qinglin, Qiao Jihong and Xia Yuhui</i>	
Nonlinear Feedback Speed Control of Internal Combustion Engines	220
<i>Zhang Jiangyan, Shen Tielong, Junichi Kako and Jiao Xiaohong</i>	
Equivalent-Input-Disturbance Method Improves Disturbance Rejection Performance: The MIMO Case*	225
<i>She Jinhua and Xin Xin</i>	
Coordination of Buy Back Contract with E-market as a Secondary Market	231
<i>Qu Daogang and Guo Yajun</i>	
An Efficient Flexible Semantic Distance Function*	235
<i>Yang Sen, Liang Min, Guo Jiankui, Ruan Beijun and Zhu Yangyong</i>	
Periodic Learning Control for a Class of Nonlinear Systems	241
<i>Chen Luan, Sun Mingxuan and He Xiongxiong</i>	

The Design and Application of Hybrid Intelligent Control System for Rotary Kiln Process in Alumina Production*	246
<i>Wu Yongjian, Tan Minghao, Zhou Xiaojie and Chai Tianyou</i>	
Optimization Design on Sensing Field of Electromagnetic Tomography*	252
<i>Xue Yixuan, Zhao Shu and Dong Feng</i>	
The Pitch Channel Slide Control System Design for Supersonic Cruise Missile*	257
<i>Chen Jie, Pan Changpeng and Gu Wenjin</i>	
Gait Design and Balance Control for the Biped Robot Based on Reaction Null-space Method*	262
<i>Huai Chuangfeng, Fang Yuefa and Guo Sheng</i>	
Variable Structure Control of A Maglev System Based on Linear Quadratic Regulator.....	267
<i>Zhang Chenghui, Sun Xiaoming, Liu Rui and Liu Zhijun</i>	
The Application of Soft-sensor Technology in Measuring Water Boiling Point.....	271
<i>Chen Baojun, Zhong Chongquan, Yang Suying and Yan Ming</i>	
Track Control of the States Evolution of Quantum System Based on Bloch Sphere*	276
<i>Lou Yuesheng and Cong Shuang</i>	
Cost Analysis of Manipulating Multiple Qubit Systems	281
<i>Zhang Ming</i>	
Non-Fragile Mixed LQR/H∞ Control Problem for Linear Discrete-time Systems with Controller Uncertainty*	286
<i>Xu Xiaojie</i>	
Vehicular Traffic Flow Dispersion Prediction of Coordinated Signal Control Based on Support Vector Regression*	291
<i>Liu Ximin and Lu Shoufeng</i>	
Fuzzy Predictive Control of Steam Dryness for Steam-injection Boiler.....	295
<i>Yang Jianhua, Liu Wenqi and Lu Wei</i>	
A Model Predictive Control Method for A High-speed Magnetic Actuator	299
<i>Mukai Masakazu, Seikoba Suguru and Kawabe Taketoshi</i>	
An Adaptive Tracking Method for Non-holonomic Wheeled Mobile Robots.....	303
<i>Yue Liyong and Xie Wei</i>	
A Hybrid Evolutionary Algorithm Based on EDAs and Clustering Analysis.....	308
<i>Cao Aizeng, Chen Yueting, Wei Jun and Li Jinping</i>	
An Improved Snake Model Based on Image Gravitation and Optimized Greedy Algorithm*	313
<i>Li Guo You</i>	
A Novel Bionic Neural Network Control Method for Vivid Animation of Virtual Animal's Locomotion	318
<i>Zhang Daibing</i>	
New Results for Globally Asymptotic Stability and Instability of Recurrent Neural Networks *	324
<i>Zhang Yutian and Luo Qi</i>	

Stability in Probability of Partial Variables for Stochastic Reaction Diffusion Systems	329
<i>Luo Qi and Zhang Yutian</i>	
Cellular Automata and Their Applications in Combat Modeling & Simulation.....	334
<i>Deng Fang, Chen Jie, ChenWenjie and Zhu Lin</i>	
Simulating of Hydraulic Holding System of Large-Scale Forging Press Based on Iterative Learning Control.....	339
<i>Zhou Yucai, Liu Shaojun, Liu Zhongwei, Deng Yi and Huang Minghui</i>	
Implement Method of Multithreading Technique for Distributive Monitor and Control Network System.....	343
<i>Liu Zaiwen, Duan Changming and Xu Jiping</i>	
A Fuzzy Clustering Ensemble Based on Dual Boosting*	348
<i>Zhai Sulan, Luo Bin and Guo Yutang</i>	
Multi-Plane Electrical Resistance Tomography System Based on Parallel Data Acquisition Strategy	353
<i>Tan Chao, Dong Feng and Wang Binbin</i>	
An Imbalanced Training Data SVM Classification Problem Based on RiemannianMetric.....	358
<i>Zhou Qifeng, Lin Chengde, Luo Linkai and Peng Hong</i>	
A New Method to Enhance the Network Synchronizability*	362
<i>Dai Kun, Wang Xiaofan and Li Xiang</i>	
The Methods of Stream Dryness Measurement in Oil Field.....	366
<i>Yang Jianhua, Liu Wenqi and Lu Wei</i>	
Controllability of Switched Linear Systems*	369
<i>Qiao Yupeng and Cheng Daizhan</i>	
Human-in-the-loop Control System Based on The Biped Walking- chair Robot.....	373
<i>Tang Jiaoyan, Zhao Qunfei, Huang Jie and Yang Ruqing</i>	
Insensitizing Controls for Semilinear Evolution Systems*	378
<i>Yan Yuqing, Zhao Yi and Sun Fengyun</i>	
Stability and Stabilization of Discrete-time Linear Systems over Networks with Control Input Quantization*	382
<i>Guo Yafeng and Li Shaoyuan</i>	
The Application of Dynamic Programming Algorithm In Route Protocol of Wireless Sensor Network (WSN)	386
<i>Shi Weiren, Deng Pengcheng and Zhang Yang</i>	
Friction Estimation of Ball and Plate System Based on Extended Kalman Filter.....	390
<i>Zhang Xuefei, Tian Yantao, Wang Hongrui and Ding Ce</i>	
Stochastic Optimization for a Class of Hierarchical Unstructured P2P System.....	395
<i>Xu Chenfeng, Xi Hongsheng, Jiang Qi and Yin Baoqun</i>	
Load Scheduling Control for Main Steam Temperature of Power Generation Unit	399
<i>Wei Le and Fang Fang</i>	

A Novel Management Method Dased on SNMP*	404
<i>Cheng Chuangqing and Wang Li</i>	
On Multiplex Combination Forecasting Model Based on GA and ANN*	407
<i>Li Junfeng, Yang Aiping , Dai Wenzhan and Pan Haipeng</i>	
Generating Hyperchaos via a Simple Periodic Forcing Signal*	412
<i>Li Yuxia, Tang Wallace K. S. and Chen Guanrong</i>	
Networked Control System and its Application in Fire Control System*	417
<i>Chen Chen, Chen Jie and Zhang Juan</i>	
A Novel Least Slack First Scheduling Algorithm Optimized by Threshold.....	421
<i>Ba Wei and Zhang Dabo</i>	
Error Model Simulation and Analysis for Guided Bomb	426
<i>Mu Yuqiang, Qian Longjun and Sheng Andong</i>	
Input-to-state Stabilization of Feedforward Systems with Dynamic Uncertainties*	430
<i>Chen Tianshi and Huang Jie</i>	
An Improved General Particle Swarm Optimization Algorithm for Fast Infrared Image Segmentation	435
<i>Ni Chao, Li Qi and Xia Liangzheng</i>	
Model Reduction for a Class of Nonlinear Systems*	440
<i>Wang Jing and Huang Lin</i>	
On Target Positioning Parallel Robot Control	445
<i>Sun Lining, Liu Yanwu, Qu Dongsheng and Li Changfeng</i>	
Stackelberg Equilibriums of Open-loop Differential Games	450
<i>Xu Yashan</i>	
Study of QoS Based on Flow Classification in Multi-Layer Switch*	455
<i>Cheng Chuangqing and Wang Li</i>	
A Direct Torque Controlled Permanent Magnetic Synchronous Motor System Based on the New Rotor Position Estimation *	459
<i>Chen Yongjun, Huang Shenghua, Wan Shanming and Wu Fang</i>	
Improvement of Vehicle Handling and Stability by Integrated Control of Four Wheel Steering and Direct Yaw Moment.....	464
<i>Wu Jianyong, Tang Houjun, Li Shaoyuan and Fang Wan</i>	
Time-Triggered Architecture (TTA) in Industry Hard R-T Embedded Control Software Design	470
<i>Wang Bin, Zhang Yunsheng, Xiong Xin and Wang Shuai</i>	
Decision Model and Implementation of Evaluation and Selection to MRO Enterprise*	474
<i>Chen Jingjie, Chen Jiusheng and Zhang Xiaoyu</i>	
On Remote Monitor and Control Based on OPC and ASP.NET	479
<i>Zhang Lieping, Ao Maoyao and Zhang Yunsheng</i>	

Component-oriented Design and Interaction Semantics Description of Hierarchical Hybrid Control System	483
<i>Zhang Jing and Zhang Yunsheng</i>	
A New Multi-Scale Estimation Scheme for Dynamic System	488
<i>Zhou Funa, Tang Tianhao and Wen Chenglin</i>	
Date Gas Load Forecasting With OIF-Elman Network*.....	492
<i>Su Gang, Wang Lingling, Xu Yongsheng and Wang Xiuli</i>	
Time Delay Force Control for Vehicle Active Suspension System.....	496
<i>Xuan Dong Ji, Kim Jin Wan, Nan Yang Hai and Kim Young Bae</i>	
Output Feedback of Model-based Networked Control Systems with Multi-rate Input Sampling*	502
<i>Wang Zhiven, Guo Ge, Hong Yi and Luo Dongsong</i>	
H∞Control of a Class of Non-affine Nonlinear System.....	506
<i>Huang Hongyi and Peng Xiafu</i>	
A Method of Expression Feature Extraction Using Optimized ICA*.....	511
<i>Zhou Shuren, Liang Ximing and Zhu Can</i>	
A Study of Autonomous Parking for a 4-Wheel Driven Mobile Robot	515
<i>Zang Joung, Xuan Dong Ji, Kim Jin Wan and Kim Young Bae</i>	
Control System Development of the One-axis Hydraulic Road Simulator Using QFT.....	521
<i>Kim Jin Wan, Xuan Dong Ji, Zhang Jing Yi and Kim Young Bae</i>	
On the Choice of Manufacturer's Distribution Channel Strategy Based on Game Theory	527
<i>Zhao Liqiang and Guo Yajun</i>	
Optimal Stopping Time and Pricing of Exotic Options	532
<i>Yang Bing</i>	
Anti-swing System Control of Container Crane Based on Rough Sets	536
<i>Xiao Jianmei, Lu Xiaoming and Wang Xihuai</i>	
Application of Quantum Genetic Algorithm in Logistics Distribution Planning.....	540
<i>Wang Xihuai, Yang Ying and Xiao Jianmei</i>	
SINS/GPS Tightly Integrated Navigation Algorithm for Land Vehicle Applications.....	544
<i>He Xiaofeng, Hu Xiaoping, Wu Meiping and Qin Haili,</i>	
Based on Hybrid Genetic Algorithm and Cellular Automata Combined Traffic Signal Control and Route Guidance*.....	548
<i>Lu Shoufeng and Liu Ximin</i>	
Multi-objective Optimization of Reactive Power Dispatch Using a Bacterial Swarming Algorithm*.....	553
<i>Lu Zhen, Li Mengshi, Tang Wenjia and Wu Q. H.</i>	
Hierarchy Modeling for Component-based Complex Control Software *	558
<i>Zhang Jing, Zhang Yunsheng and Xiang Fenghong</i>	

Using Fuzzy Neural Network in Real Estate Prices Prediction	562
<i>Zhang Xiao Li</i>	
A Voltage Control Strategy and Analytic Models for a 42-V Automotive Power Generation System with Induction Generator and PWM Rectifier*	566
<i>Lu Ziguang and Tan Zhi</i>	
High-Performance Control Design of Automotive Power Generation System with Claw-Pole Synchronous Generator and PWM Rectifier	570
<i>Lu Ziguang and Zong Kuihua</i>	
Optimal Controls for a Class of Impulsive Systems with Hybrid Quadratic Performance*	574
<i>Zhou Yuan</i>	
Non-smooth Agent-based Dynamics of Strategic Bidding with Linear Supply Function*	578
<i>Xue Ancheng and Hong Yiguang</i>	
Adaptive Control of a Class of Uncertain Nonlinear Systems Based on a Max-Min Method	583
<i>Chen Pengnian and Qin Huashu</i>	
On the Trapping Region of the Trajectories of Chaotic Lorenz-type System*	588
<i>Sun Fengyun and Zhao Yi</i>	
Robust Stabilization of Networked Control Systems: an LMI Approach*	592
<i>Yu Mei and Tan Wen</i>	
On Multi-population Parallel Particle Swarm Optimization Algorithm	597
<i>Zhang Dingxue, Guan Zhihong and Liu Xinzhi</i>	
Application on Robust Guaranteed Cost Control Method in Portfolios	600
<i>Gao Ying, Zhou Xin and Zou Yi</i>	
Identification of Hammerstein-Wiener Model with Least Squares Support Vector Machine	604
<i>Song Haiying, Gui Weihua and Yang Chunhua</i>	
Robust Tracking Control for Output Voltage of UPS Inverter*	609
<i>Zheng Xuesheng, Li Chunwen, Tang Honghai and Rong Yuanjie</i>	
On VHF Air-Ground Datalink Communication Protocols Framework and Transformation Flow	613
<i>Geng Hong, Zhang Xiaoyu, Chen Jiusheng and Dong Jiankang</i>	
On Fuzzy PID Controller with Parameters Self-tuning in 2 Degrees of Freedom AC Magnetic Bearings*	617
<i>Wang Lei, Zhu Huangqiu and Chen Yan</i>	
Analysis of Spectrum and Prediction for Short-term Traffic Flow	622
<i>Weng Xiaoxiong and Jian Jun</i>	
Use Case-Driven Role Based Access Control Security Authorization	626
<i>Lin Juan, Ren Shengbing, Jiang Ping and Jalloh Mahammed</i>	
Time-Delay Dependent Robust Passive Control for a Class of Nonlinear Time-Delay Systems*	629
<i>Yang Li and Zhang Qingling</i>	

A New Method for Triangular Fuzzy Number Multiple Attribute Decision Making	634
<i>Qin Juying, Meng Fanyong and Zeng Xuelan</i>	
A Proof of the Discrete-Time KYP Lemma Using Semidefinite Programming Duality*	638
<i>Cheng Yiping</i>	
Two-car Following Model Based on One-dimension Cellular Automaton*	643
<i>Liu Hong, Wang Hui, Zhang Jing and Zheng Min</i>	
Finite-Time Input-to-State Stability and Related Lyapunov Analysis*	647
<i>Hong Yiguang, Jiang Zhongping and Feng Gang</i>	
A Novel Image Content Authentication Algorithm Based on Laplace Spectra Feature	652
<i>Lv Wanli, Guo Yutang and Luo Bin</i>	
Parameter-Dependent Robust H_{∞}- Model Reduction for Discrete-Time Switched Polytopic Linear Systems*	657
<i>Qiu Jianbin, Feng Gang and Yang Jie</i>	
The Design of Experiment Platform and Driving System for Bearingless Permanent Slice Motors.....	662
<i>Zhu Tong, Zhu Huangqiu, Sun Yongbo and Hao Xiaohong</i>	
A Kind of Image Segmentation Method Based on the Combination of GA and Two- Dimensional Entropy*	667
<i>Li Youxin and Mao Zongyuan and Tian Lianfang</i>	
Exponential Stability Criterion for Cohen-Grossberg Neural Networks with Time-varying Delay*	672
<i>Li Tao and Fei Shumin</i>	
Global Robust Output Regulation for Non-Minimum Phase Nonlinear Systems in Lower Triangular Form*	677
<i>Zhong Renxin and Huang Jie</i>	
A Kind of Robust Variable Structure Control Scheme Based on Support Vector Machine*	682
<i>Zhang Yibo and Ren Jia</i>	
Simulation Study on Tracking Control of Mobile Robot Based on Cascaded Adaptive Approach*	687
<i>Chen Pengcheng and Ji Zhicheng</i>	
Generalized Point Wise Min-Norm Control Based on Control Lyapunov Functions	692
<i>He Yuqing and Han Jianda</i>	
A Practical Criterion on Synchronization of Linear Coupling Chaotic Complex Dynamical Network.....	697
<i>Liu Jie</i>	
The Path Planning of Virtual Endoscopy Based on Image Segmentation*	703
<i>Gao Xiangjun, Tian Lianfang, Wang Lifei and Mao Zongyuan</i>	
On Balance Control Strategy with a Wide Range of Modulation Indexes for Multilevel DC- link Inverter	707
<i>Chen Jinping, He Yuyao, Ru Feng, Lin Jipeng and Wu Tingting</i>	

Simulation Modeling Research of Permanent Magnet Synchronous Motor Control System	711
<i>Sun Ziwen, Yang Guochao and Ji Zhicheng</i>	
A Dynamic Map-matching method for Adaptability	716
<i>Hong Wei, Tian Yantao and Xu Bin</i>	
Application of Improved Genetic Algorithm in Virtual Enterprise Partnership Selection	721
<i>Han Jianghong, Wang Meifang, Ma Xuesen and Wang Yuefei</i>	
An Adaptive System Identification Algorithm with a General Performance Index Based on Entropy Optimization*	726
<i>Liu Yan, Ren Xuemei, Wang Zibin and Na Jing</i>	
Fuzzy Logic Based Adaptive PID Control of Switched Reluctance Motor Drive.....	731
<i>Xiu Jie and Xia Changliang</i>	
Active Suspension System Based on LMS Adaptive Fuzzy Algorithm*	736
<i>Sun Jianmin and Yang Qingmei</i>	
On Vibration Control Methods of Vehicle*	740
<i>Sun Jianmin and Yang Qingmei</i>	
An Adaptive LocalizationMethod for Autonomous Digging Robot.....	744
<i>Sun Yi and Lu Haijun</i>	
Implementation of TTS System Based on Windows Vista.....	748
<i>Xiao Zhi, Yu Fengqin and Li Yu</i>	
An Isolation Niche Hybrid Genetic Algorithm Based on Simulated Annealing Method	752
<i>Sun Yan, Sun Zheng and Huang Kun</i>	
Concurrent Design of Flexible Manipulator System	756
<i>Xiao Zhiquan</i>	
Using Orthogonal Genetic Algorithm to Optimize Location of Traffic Counting Points	762
<i>Sun Yan and Sun Zheng</i>	
Adaptive Control of Rotation Speed of Ship Exhaust Gas Turbo-Generator*	766
<i>Xu Xiaoyan and He Min</i>	
Reaching Agreement in Finite Time via Continuous Local State Feedback*	770
<i>Xiao Feng and Wang Long</i>	
Predictive-Velocity Modified Particle Swarm Optimization	775
<i>Cui Zhihua, Cai Xingjuan, Zeng Jianchao and Sun Guoji</i>	
Logistics Information Platform and Its Key Technologies in Electric Power Industry	780
<i>Yan Bo and Lin Wei</i>	
Fair Congestion Control for FAST TCP*	784
<i>Lu Quan and Qiu Junping</i>	
Fault Tolerant Control Based on Sliding Mode Control Approach with Application to Water Tank System*.....	788
<i>Rafi Youssef and Peng Hui</i>	

A Method of Super-resolution Image Restoration Based on Separation*	792
<i>Zhang Jian, Fan Xiaoping and Huang Cailun</i>	
PMID Observer Design of Descriptor Linear Systems*	795
<i>Wu Aiguo and Duan Guangren</i>	
A Hybrid Intelligent Algorithm for Vehicle Pick-up and Delivery Problem with TimeWindows*	800
<i>Liao Li, Wu Yaohua, Hu Hongchun and Xiao Jiwei</i>	
A Novel Path Planning Method Based on Certainty Grids Map For Mobile Robot	805
<i>Li Jigong, Feng Yiwei and Zhu Chaoqun</i>	
An Application of Fuzzy Logic Controller for Switched Reluctance Motor Drive*	809
<i>Xiu Jie and Xia Changliang</i>	
On a New Detecting Robot in Sewer Pipe	813
<i>Yang Qingmei and Sun Jianmin</i>	
A Simplified and Practical Life-Cycle Design System Based on Feature-Based Modeling*	817
<i>Xu Xiaoming and Deng Yi</i>	
Gear Intelligent Fault Diagnosis Based on Support Vector Machines	821
<i>Lv Peng, Liu Yibing, Ma Qiang and Wei Yufan</i>	
Rolling Optimal Scheduling Algorithm for Iron and Steel Corporation Power System	826
<i>Zhang Chuan, Gao Feng, Zhai Qiaozhu and Guan Xiaohong</i>	
Robotic Dynamic Target Recognition and Tracking Based on the Monocular Vision	831
<i>Liu Lei and Wang Yongji</i>	
Linearization of Switched Nonlinear Systems *	836
<i>Yuan Yanyan and Cheng Daizhan</i>	
Variable Structure Control for Interval Systems	841
<i>Wang Cuihong, Hao Guang and Huang Tianmin</i>	
Output Feedback Stabilization for Discrete-time Systems with A Time-varying Delay*	846
<i>He Yong, Wu Min, Liu Guoping and She Jinhua</i>	
Control Law Design of Mobile Robot Trajectory Tracking and Development of Simulation Platform	853
<i>Yang Yi, Fu Mengyin, Sun Changsheng, Wang Meiling and Zhao Cheng</i>	
On All Sets of Optimal Controls for a Control System with State Feedback	858
<i>Jiménez Serrano Eleazar, Araki Keijiro and Kusakabe Shigeru</i>	
Automatic Control System of the Electrode\s Position during the Whole Process of LF Steel-Making	863
<i>Cao Liting, Tian Jingwen, Li Shuqin and Xing Liping</i>	
Dynamics Modeling and Simulation for Moving-mass Reentry Vehicle*	867
<i>Li Ruikang, Jing Wuxing and Gao Changsheng</i>	
Parameters Identification of Continuous System Based on Hybrid Genetic Algorithm	872
<i>Hou Zhixiang</i>	

A Static Candidates Generation Technique and its Application in Two-stage LDA Chinese Character Recognition*	876
<i>Liu Zhibin and Jin Lianwen</i>	
Handwritten Chinese Similar Characters Recognition Based On AdaBoost *	881
<i>Zhang Bin and Jin Lianwen</i>	
A Modified Particle Swarm Optimization Algorithm	885
<i>Liu Yitong, Fu Mengyin and Gao Hongbin</i>	
A Robot Motion Control System Based on ARM	890
<i>Tian Jingwen, Gao Meijuan, Li Jin and Li Kai</i>	
Sampled-Data Based Average Consensus Control for Networks of Continuous-Time Integrator Agents With Measurement Noises*	894
<i>Li Tao and Zhang Jifeng</i>	
A Multi-sensor Fusion Method for the Detection of Cavitations in the Hydropower Turbine.....	899
<i>Liu Suyi and Wang Shuqing</i>	
Stabilizing A Class of Dynamical Complex Networks Based on Decentralized Control.....	904
<i>Gao Qing and Liu Xian</i>	
A Limit Property for the Optimal Control of a Replacement Problem with Maintenance Under Uncertainty.....	909
<i>Zhang Rong</i>	
Design and Implementation of Networked Predictive Control over Wireless IP Networks*	914
<i>Dong Zhe, Liu Guoping and Tao Yuegang</i>	
A Learning Algorithm Based on PSO and L-M for Parity Problem	920
<i>Yang Guangyou and Zhang Daode</i>	
Novel Stability Analysis of High-order Cohen-Grossberg Neural Networks with Time-varying Delays*	925
<i>Ji Yan and Cui Baotong</i>	
Delay-dependent LMI Conditions for Stability and Stabilization of T-S Fuzzy Systems with Time-delay*	930
<i>Wang Renming and Pan Juntao</i>	
Middle-long Power Load Forecasting Based on Genetic Algorithm.....	934
<i>Niu Dongxiao, Li Jinchao, Li Jinying and Liu Da</i>	
State Feedback Stabilization of Nonlinear Stochastic Systems*	938
<i>Zhang Weihai and Yan Zhiguo</i>	
The Stability of the Kalman Filter for Systems with Colored Observation Noises.....	943
<i>Wang Yuan and Li Chen</i>	
The Integrated Design of Control and Scheduling for Networked Control System.	948
<i>Ji Zhicheng, Lu Xinghai and Xie Linbo</i>	
Intelligent Integrated Optimization Control Design of Comprehensive Production Indices for Sintering Process*	953
<i>Xiang Jie and Wu Min</i>	

An Optimization Method Based on Integrated Predictive Models and Expert Reasoning Strategies for Mix Proportions in Lead-zinc Sinter	958
<i>Wang Chunsheng, Wu Min and CaoWeihua</i>	
Decentralized Discrete-Time Consensus Algorithms for Multi-agent Systems*.....	963
<i>Li Qin and Jiang Zhongping</i>	
Evolutionary Models of Financial Innovation under Self-organization Theory*	968
<i>Yang Yunjie and Zhu Shuzhen</i>	
Development of DCS-Embedded Advanced Control and Optimization Software	973
<i>Gong Daiwei and Sun Demin</i>	
Observer Based Leader-Following Formation Control Using On-board Sensor Information.....	978
<i>Gustavi Tove and Hu Xiaoming</i>	
Performance Comparison Between Classical and Quantum Control for a Simple Quantum System.	982
<i>Xi Zairong</i>	
A new Integrated Model and its Application to Soft-sensing of the Flue Temperature in Coke Oven	985
<i>Chen Tairen, CaoWeihua, WuMin and Lei Qi</i>	
On the Efficiency of Robot Fish	990
<i>Yu Jinghu and QiuYuming</i>	
On Design of Aggregation Based Robust Model Predictive Controller for System with Bounded Disturbances	994
<i>Li Dewei and Xi Yugeng</i>	
The Application of Predictive Scheduling Algorithms for SingleMachine Problem*	999
<i>Zhang Ying, Chao Zhijun and Xi Yugeng</i>	
Recursive Subspace Identifi.cation for Closed-loop Systems*	1004
<i>Jiang Yueping and Fang Haitao</i>	
Energy Optimal Control for Two-input Quantum System Evolving on the Lie Group SU(1, 1).	1009
<i>Wu Jianwu, Li Chunwen and Zhang Jing</i>	
Stabilization of Power Systems by Switched Controllers.....	1014
<i>Li Zhengguo, Yang Guanghong, Wen Changyun and Xie Wenxiang</i>	
On Portfolio Investment Model Using Ant Colony Optimization Algorithm	1019
<i>Zhou Jianguo, Zhang Hui and Tian Jiming</i>	
Fuzzy Optimization Control of the Temperature for the Heating Process in Coke Oven Based on Co-evolution*	1023
<i>Lei Qi and Wu Min</i>	
Design of Fuzzy Rule Based Novel Sliding Mode Controller for Buck Converter	1028
<i>Geng Jianhua, Zhang Changfan, Wang Xibo and Luo Cheng</i>	

Hyperchaotic Secret Communication Based on Wien-Bridge Circuit and its DSP Realization.....	1033
<i>Yu Simin and Lü Jinhu</i>	
High Order Chua's Circuit and Its FPGA Realization	1038
<i>Yu Simin and Lü Jinhu</i>	
Consensus of Multi-agent System with Diverse Communication Delays*	1043
<i>Liu Chenglin and Tian Yuping</i>	
Stationary Set and Stability: a Case Study for Mechanical Systems with Discontinuities.....	1048
<i>Zheng Kai, Shen Tielong and Yao Yu</i>	
A High-speed AFM Scanning Mode Based on Learning Control	1053
<i>Fang Yongchun</i>	
Design and Implementation of a Fully Autonomous Flight Control System for a UAV Helicopter*	1058
<i>Peng Kema, Dong Miaobo, Chen Ben M., Cai Guowei, Lum Kai Yew and Lee Tong H.</i>	
Integration and Implementation of a Low-cost and Vision-based UAV Tracking System*	1064
<i>Lin Feng, Chen Ben M. and Lum Kai Yew</i>	
Coordinating Control Based on Multi-objective Intelligent Optimization for the Overall Lead-zinc Sintering Process.....	1070
<i>Duan Ping, Wu Min and Xu Chenhua</i>	
Virtual Obstacle Based Approach to Path Planning of Mobile Robot with Nonholonomic Constraints	1075
<i>Lei Zhaoming, Sun Hexu, Liu Zuojun, Lin Tao and Yang Peng</i>	
Mid-frequency Disturbance Rejection of HDD Systems.....	1080
<i>Guo Yuqian, Wang Youyi and Xie Lihua</i>	
Modeling of a Power Transformer Winding for Deformation Detection Based on Frequency Response Analysis*	1085
<i>Shintemirov Almas, Tang Wenhui and Wu Q. H.</i>	
Identification of Errors-In-Variables Systems with ARMA Measurement Noises *	1090
<i>Song Qijiang and Chen Hanfu</i>	
Stability of Linear Constant System with Linear Impulse.....	1094
<i>Geng Hongliang and Duan Guangren</i>	
Dual-mode Predictive Control of Constrained Nonlinear Systems via Linear Differential Inclusion.....	1098
<i>Zhao Min and Li Shaoyuan</i>	
The Least Covering Algorithm*	1103
<i>Zhao Shu, Zhang Yanping, Zhang Ling and Xu Feng</i>	
Robust H_{∞} Filtering for Switched Discrete-time Systems with Time-delays*	1108
<i>Liu Xiaowei</i>	
Classifying Method of Iris Image Based on Wavelet Packet and Neural Network.....	1113
<i>Lv Qianxing, Zhou Zhiping and Ji Zhicheng</i>	

Hierarchical Chinese Character Database Based on Global Affine Transformation	1117
<i>Zu Xiaona and Jin Lianwen</i>	
Self-Calibration Technique Based on Hand-Eye Vision Systems.....	1122
<i>Wang Haixia, Wang Chunyan and Lu Xiao</i>	
Robust Iterative Learning Control Design Based on Two Degree of Freedom Control*	1126
<i>Liu Shan and Lin Jian</i>	
Wave Variable Sliding Mode Control Design for Bilateral Tele-Operation Systems using Haptic Interfaces	1131
<i>Dong Lingfang and Khorasani Khashayar</i>	
Group Motion Control of Multi-agent Systems Based on Complex Network *	1136
<i>Wu Zhengping, Guan Zhihong and Li Tao</i>	
Simultaneous Stabilization for Singular Systems	1141
<i>Ma Jing and Gao Zhiwei</i>	
AFM Imaging Method Based on the Analysis of Piezo-Scanner Dynamic Characteristic.....	1146
<i>Dong Xiaokun, Fang Yongchun, Zhou Xianwei and Zhang Yudong</i>	
Stable Region Analysis of Networked Control Systems with Uniform Quantization*	1151
<i>Pan Wei, Jiang Hongmei and Zhu Chaoqun</i>	
An Improvement Image Compression Scheme Based on Lower Tree.....	1155
<i>Zhang Yan, Liu Cuixiang, Sun Yicai and Yu Ming</i>	
Nonlinear Co-ordinated Switching Excitation Control of Power Systems	1160
<i>Liu Yanhong, Li Chunwen and Tang Honghai</i>	
Distributed Formation Control of Multiple Nonholonomic Mobile Robots.....	1165
<i>Chen Yangyang and Tian Yuping</i>	
Adaptive Friction Compensation of Servo System Based on Iterative Learning.....	1170
<i>Yang Yan, Wang Yunkuan, Gong Li and Song Yinghua</i>	
Application of Genetic Diagonal Recurrent Neural Network to Servo System*	1175
<i>Du Yanchun, Li Yibin and Wang Guiyue</i>	
Asymptotic Stability of Software Systems with Rejuvenation Policy*	1179
<i>Xu Houbao and Wang Junmin</i>	
A Clustering Algorithm Based on IEEE802.15.4.....	1184
<i>Zhang Weiyong, Zhang Fen and Ma Xuesen</i>	
The Nonlinear Iterative Closed Loop Configuration of Control Allocation for Aircraft with Multiple Control Effectors*.....	1189
<i>Yang Lingyu, Zhong Youwu and Shen Gongzhang</i>	
Modeling Inverse-Hysteretic Systems Based on Expanded Input Space *	1192
<i>Tan Yonghong and Zhao X</i>	
Robust Self-tuning IMC for Opto-electronic Tracking Time-delay System	1196
<i>Xu Bo, JiWei, Pan Wei and QianYanping</i>	

A Decision Support System for Books Procurement of University Libraries*	1201
<i>LI Wu, LIXia and Zhao Lin</i>	
A Near Optimal Midcourse Guidance Law for Exoatmospheric Interceptor*	1205
<i>Zheng Liwei and Jing Wuxing</i>	
Zero Effort Miss Formulation for Longer Range Targeting	1210
<i>Zheng Liwei, Jing Wuxing and Zhang Jianying</i>	
Robust Quadratic Optimal Control for Uncertain Linear Systems with Square-integral Perturbation	1214
<i>Wang Xiuhong and Liu Mengliang</i>	
Quotient Space Theory about An Irreducible Iterated Function System*	1219
<i>Zhang Ling , Zhang Yanping, Fang Hongbin and Zhang Hang</i>	
Consensus of Multi-agent Systems with Higher Order Dynamics*	1222
<i>Wang Jinhuan and Cheng Daizhan</i>	
Time-Lag Effect on the Capture Capability of Pursuit-Control	1227
<i>Wu Wenhui and Qu Jianling</i>	
A Real Case of Routing Design for Less-Than-Truckload Motor Carriers Using Genetic Algorithm	1232
<i>Zhang Jian, Wu Yaohua and Wang Jingbo</i>	
Periodic Controllability of Evolution Equations.	1236
<i>Li Hongheng and Zhang Xu</i>	
Dynamic Scheduling and Robust Control Co-Design for Networked Control Systems	1241
<i>Wang Yan, Ji Zhicheng, Xie Linbo and HuWeili</i>	
Design and Performance Analysis of Robust Fusion Filters for a Class of Continuous Uncertain Dynamic Systems	1246
<i>Sun Hang, Liu Rong li and Wen Cheng lin</i>	
An Efficient Security Enhancement of AODV Protocol	1251
<i>Zhang Guoqing, Mu Dejun, Xu Zhong and YangWeili</i>	
On Fuzzy Self-tuning PID MATLAB Simulation for Central Heating	1255
<i>Wei Jiang, Ping Yin and Liting Cao</i>	
Inde.nite Stochastic Linear Quadratic Control in In.nite Time Horizon*	1260
<i>Tang Huaibin, Wu Zhen and Zhang Weihai</i>	
On Elevator Group Scheduling Strategy Based on Robust Discrete Optimization Modeling Method	1265
<i>Zong Qun, WangWeijia and Sun Zhiming</i>	
Design of Wireless Intelligent Speech Control System Based on DSP and ZigBee	1270
<i>Bian Hongchang, Cheng Defu, Qi Yulin and Zhang Kun</i>	
An Optimal Algorithm of Group Decision Making Based on Linguistic Fuzzy Preference Information	1273
<i>Zeng Xuelan and Li Zhengyi</i>	

Power Communication Denoising Based on Fast Algorithm of Translation Invariant Wavelet.....	1277
<i>Wang Ju and Fan Shaosheng</i>	
Gabor Representation for Transient Signals via DCT-based Real-valued Discrete Gabor Transform	1281
<i>Gu Juan juan and Tao Liang</i>	
A Two-order Active Disturbance Rejection Control Algorithm for Permanent Magnetic Synchronous Motor	1285
<i>Liu Zhigang and Li Shihua</i>	
Research on Calculations of Probabilities of Operators in GA Guided by Cooperation of Diversity and Fitness	1289
<i>Li Meiyi, You Wei and Cai Zixing</i>	
Multi-objective Immune Evolutionary Algorithms for SLAM.....	1294
<i>Li Meiyi</i>	
Quantized Dynamic Output Feedback H"- Controller Design*	1299
<i>Che Weiwei and Yang Guanghong</i>	
Delay-dependent H∞ Control for Linear Systems with Time-varying Delayed State.....	1304
<i>Zhang Zhigang, Zhang Chenghui and Cui Peng</i>	
Internet Adaptive Active Queue Management Algorithm.....	1308
<i>Zhao Yongsheng, Zhang Fuzeng and Yang Hongyong</i>	
Novel Hybrid Clustering Algorithm Incorporating Artificial Immunity into Fuzzy Kernel Clustering for Pattern Recognition*	1312
<i>Jiang Quansheng and Jia Minping</i>	
3D Variable Structure Guidance Law Based on Adaptive Model-following Control with Impact Angular Constraints*	1317
<i>SunWeimeng and Zheng Zhiqiang</i>	
An Algorithm of Optimizing Subband Filter Banks Based on ACA	1323
<i>Li Jing , Song Zhao, Li Lingling, Li Juan, Tang Xiaoyue and Wan Juan</i>	
A Distributed Real-time Control System of Aluminum Electromagnetic Rapid Roll-casting.....	1328
<i>Tian Zhaoyao, Liao Liqing and Liu Jianliang</i>	
Temperature Predictive Fuzzy Control of Coke Oven*	1333
<i>Li Gongfa, Kong Jianyi, Jiang Guozhang, Yang Jintang, Xiang Hegen and Hou Yu</i>	
Time Synchronization ForWireless Sensor Networks Based On Local Level Structure	1336
<i>Shi Weiren, Zhang Yang and Deng Pengcheng</i>	
Improvement of Robust Positive Realness for a Class of Uncertain Systems*	1340
<i>Li Jing and Zeng Jianping</i>	
Guaranteed Cost Control for Dynamic System with Hybrid Delays and Uncertainty.....	1344
<i>Wang Junqing and Wang Tiancheng</i>	
On Network Dynamic Planar Location Problem Based on Matrix Operation*	1348
<i>Li Dawei, Lu Lijuan and Wang Li</i>	

Optimal Guidance Law Design for Reentry Vehicle Using Virtual Displacement Concept*	1352
<i>Gao Changsheng, Jing Wuxing and Li Chaoyong</i>	
Triple Reverse Cool Adjustment and Control Technology with DCS	1356
<i>Zhou Xuan, Yan Junwei, Zhu Dongsheng and Liang Liequan</i>	
A Variable Structure Robust Control Method in SVC Application for Performance Improvement*	1360
<i>Mao Jing-feng, Sun Yu-kun, Wu Guo-qing and LiuXian-fei</i>	
Periodicity in Calcination Temperature of a Rotary Kiln	1364
<i>Du Qiliang, Mo Hongqiang, Tian Lianfang and Mao Zongyuan</i>	
Robust Dissipative Control for Nonlinear Systems with Uncertainties	1369
<i>Zeng Tao and Zhao Shengkai</i>	
Optimal Scheduling AlgorithmforMessages in Networked Control Systems Based on Token-Bus	1373
<i>Liu Huai, Huang Jianxin and Cao Yi</i>	
Higher-order Adaptive Iterative Control for Uncertain Robot Manipulators*	1377
<i>Quan Quan, Wang Xinhua and Cai Kaiyuan</i>	
Dissipative Hamiltonian Realization of Nonlinear Differential Algebraic Systems	1382
<i>Liu Yanhong and Li Chunwen</i>	
The Passive Energy Tracking Control Law of the Compass Bipedal Robot*	1387
<i>Liu Zhenze, Zhang Peijie, Tian Yantao and Zhou Changjiu</i>	
Intelligent Data Pretreatment Based on Principal Component Analysis and Fuzzy C-means Clustering in Flotation Process*	1393
<i>Wang Jiesheng</i>	
Data-Fusion Techniques in Hard Shoulder Monitoring System*	1397
<i>Dong Hairong, Wallace Michael and Evans David</i>	
Output-FeedbackMRAC for Continuous State Delay Systems: the Relative Degree Two case	1401
<i>Kamali Marzieh and Askari Javad</i>	
Design and Implementation of Instant Message System Based on 3G	1406
<i>Xiong Yonghua, WuMin, Jia Weijia and Zhang Lizhuo</i>	
The Modeling Method for Non-intrusive Objective Speech Quality Measurement Based on Cloud Theory	1411
<i>Li Jing, Li Lingling, Wan Juan, Xu Genhua and Chen Fang</i>	
Simulation Technique of In-vehicle CAN Network Based onMATLAB	1415
<i>Xu Xiaojuan and Liu Zhiyuan</i>	
Choice of Dimension Using Reversible Jump Markov Chain Monte Carlo in the Multidimensional Scaling*	1420
<i>Qing Xiangyun and Wang Xingyu</i>	
The Neural Network Adaptive Control for the Nonlinear Load of the Permanant Magnet Synchronous Motor	1425
<i>Li Nuo, Wang Jiang and Zhang Ronghua</i>	

Multi-modal Medical Image Fusion Based On Wavelet Transform And Texture Measure	1430
<i>Kang Yuanyuan, Li Bin, Tian Lianfang and Mao Zongyuan</i>	
Derivative Feedback Control for Singular Systems*	1434
<i>Ren Junchao, Zhang Qingling and Zhang Xuefeng</i>	
On Grid-based Complex Warfare System Simulation	1438
<i>Li Xiong and Dang Sheng</i>	
Complete Parametric Approach for Output Regulation Problems of Matrix Second-Order Systems via Full Information Feedback*	1443
<i>Teng Yu, Wei Yiyin and Duan Guanren</i>	
Battlefield Reconnaissance Intelligence Processing Based on Rough Sets Theory	1448
<i>Li Xiong and Dang Sheng</i>	
Complete Observability of a Class of Linear Time-invariant Descriptor Systems.....	1452
<i>Tan Chong and Zhang Xian</i>	
Bi-criteria Acceleration Minimization of Redundant Robot Manipulator using LVI-based Primal-Dual Neural Network*	1457
<i>Zhang Yunong, Yin Jiangping and Tian Lianfang</i>	
An Improved Approach to Robust H₂ and H_∞- Filter Design for Uncertain Linear Systems with Time-varying Parameters	1463
<i>Xu Jun and Xie Lihua</i>	
Backstepping Based Constrained Control of Nonlinear Hydraulic Active Suspensions*	1468
<i>Ma Miaomiao, Chen Hong and Cong Yanfeng</i>	
Optimal Operation for Placing-in and Taking-out Wagons with the Limited Loading/Unloading Capacity Based on Distributed Hybrid Optimization Strategy	1472
<i>Wang Yalin, Li Liangwei, Yang Chunhua and Gui Weihua</i>	
Nonlinear Process Monitors Method Based on Kernel Function and PNN	1477
<i>Bo Cuimeい, Li Jun, Lu Aijing and Zhuang guangming</i>	
Linear Quadratic Decentralized Dynamic Games for a Class of Discrete-time Multi-agent Systems	1482
<i>Ma Cuiqin and Li Tao</i>	
Observer-based Robust Stabilization for a Class of Uncertain Delay System	1487
<i>Zhang Tao and Cui Yanqiu</i>	
Self-adaptive PID-Controlled Particle Swarm Optimization	1492
<i>Xingjuan Cai, Zhihua Cui, Jianchao Zeng and Ying Tan</i>	
Synchronization Control of Hodgkin-Huxley Neurons Exposed to Sinusoidal Electric Field*	1497
<i>Zhou Sisi, Wang Jiang, Che Yanqiu and Deng Bin</i>	
Supervisory Control of Chaotic Systems Using Online GA Tuning Neural Networks*.....	1502
<i>Che Yanqiu, Wang Jiang and Zhou Sisi</i>	

Inspection for Roll Eccentricity Signal Based on Convolution Type of Wavelet Packet Transform	1507
<i>Zhu Qibing , Huang Min and Cui Baotong</i>	
H∞ Control for Chaotic System with Cooperative Weights Neural Network*	1511
<i>Sun Li, Wang Jiang, YouHao and Deng Bin</i>	
Chaos Analysis and Control of the Ghostbuster Model*	1516
<i>Deng Bin, Wang Jiang and Chen Lisong</i>	
Prevention of Limit Cycle for Nonlinear Control Systems with Parametric Uncertainties.....	1521
<i>Wang Yuan-Jay*, Hsi Shu-I, Yen Ting-Ju and Liang Chih-Chung</i>	
Fault Diagnosis Based on Fuzzy Probability SDG in Complex System	1527
<i>Zhu Lin, Chen Jie, ChenWenjie and Deng Fang</i>	
On Dynamic User-optimal Traffic Assignment in Saturated Traffic Network*.....	1531
<i>Li Runmei and Tang Sharron</i>	
An Adaptive Sliding Mode Compensation for Friction and Force Ripple in PMSM AC Servo System	1536
<i>Zhang Wenjing</i>	
Stabilization Control for a Class of Two-Dimensional Markovian Jumping Nonlinear Systems with Time-delays.....	1541
<i>Zhao Ping and Kang Yu</i>	
Robust Consensus of Multi-agent Systems with Noise*	1546
<i>Wang Lin, Liu Zhixin and Guo Lei</i>	
Vibration Fault Detection and Diagnosis Method of Power System Generator Based on Wavelet Fractal Network*	1551
<i>Kang Shanlin, Liang Baoshe, Fan Feng and Shen Songhua</i>	
Estimation of Stator Resistance and Temperature Measurement in Induction Motor Using Wavelet Network*	1556
<i>HuangWeili, HuangWeijian and Liu Lin</i>	
Loop-closing By Using SIFT Features for Mobile Robots*	1561
<i>Zhao Fengda, Kong Lingfu and Li Xianshan</i>	
Synchronization of Vicsek Model with Large Population*.....	1565
<i>Liu Zhixin and Guo Lei</i>	
Power Quality Disturbances Detection and Classification Using Complex Wavelet Transformation and Artificial Neural Network*	1570
<i>Liu Hua, Wang Yuguo and Zhao Wei</i>	
Application of Wavelet Network for Automatic Power Quality Disturbances Recognition in Distribution Power System*	1575
<i>Liu Hua, Zhao Baoqun and Wang Guangjian</i>	
Feature Extraction Method in Fault Diagnosis Based on Wavelet Fuzzy Network for Power System Rotating Machinery*	1580
<i>Kang Shanlin, Pang Peilin, Fan Feng and Ding Guangbin</i>	

Fault Diagnosis Method Based on Wavelet Neural Network for Power System Turbo-Generator	1585
<i>Ding Guangbin and Pang Peilin</i>	
On End-to-End Network Clock Offset Compensation Algorithm and Its Implementation	1590
<i>Jia Yunyi, Xu Bugong, Wang Shihua and Liu Buchun</i>	
A Post-Synaptic Inhibition Recurrent Neural Network Structure and Its Application to Pattern Classification	1595
<i>Su Caihong, Zeng Yongfa, Zhang Zhifei and Wu Jing</i>	
Adaptive NN Control of a Class of Nonlinear Systems with Unknown Control Direction*	1601
<i>Zhao Zhuwei, Huang Shengjie and Luo Qi</i>	
Optimization of Semi-Markov Switching State-space Control Processes for Network Communication Systems*	1605
<i>Jiang Qi, Xi Hongsheng and Yin Baoqun</i>	
Design and Realization on the Digital Aircraft Anti-skid Braking Controller of Crossing Dual Redundancy Based on DSP	1610
<i>Liu Jianliang, An Jianqi and Liao Liqing</i>	
Feedback Decoupling Control of Bearingless Synchronous Reluctance Motor*	1614
<i>Zhang Hannian, ZhuHuangqiu and Diao Xiaoyan</i>	
New Consistency Condition for Exponential Stabilization of Smpled-data Nonlinear Systems*	1619
<i>Jin Huiyu and Yin Baoqun</i>	
Fault Diagnosis of Aerospace Rolling Bearings Based on Improved Wavelet-Neural Network	1623
<i>Jin Xiangyang, Li Zhang and Yu Guangbin</i>	
Robust Stabilization and Robust H Control of Uncertain Delta Operator Systems.....	1628
<i>Wang Qing and Ma Kema</i>	
The Design for Model and Control of Solid Oxide Fuel Cell Electrical Characteristic	1632
<i>Deng ZhongHua and Li Xi</i>	
Online Multivariable Identification of a MIMO Distillation Column Using Evolving Takagi- Sugeno Fuzzy Model.....	1635
<i>Molazem Sanandaji Borhan and Salahshoor Karim</i>	
Adaptive Output Feedback for a Class of Three-order Nonlinear Systems with Unknown Control Directions	1640
<i>Zheng Yunfeng, Du Jiali and Sun Hongbo</i>	
The Ultrasonic In-line Inspection System of Pipelines Based on Spectrum Estimation on-line	1645
<i>Dai Bo, Sheng Sha, Tian Xiaoping, Yang Zhuoran and Xie Zurong</i>	
Complex Hybrid Systems: Stability Analysis for Omega Limit Sets*	1650
<i>Cai Chaohong, Goebel Rafal, Sanfelice Ricardo G. and Teel Andrew R.</i>	
Adaptive Output-Feedback Control for Parametric Output-Feedback Nonlinear Systems with Additive Output Derivative*	1654
<i>Zheng Yunfeng, Du Jiali and Sun Hongbo</i>	

A Nonlinear Semiaactive Rear Differential Control in Rear Wheel Drive Vehicles	1658
<i>Riccardo Marino, Scalzi Stefano and Cinili Fabio</i>	
First Study on Laser Bone Ablation System at the Skull Base for Micro Surgery Based on Vision Navigation*	1664
<i>Lu Shaofang, Kahrs L. A., Werner M., Knapp F. B., Raczkowsky J., Schipper J., Ivanenko M., Wörn H., Hering P. and Klenzner Th.</i>	
Cross-Coupled Control for Three-Axis Turntable Target Tracking System.....	1667
<i>Liu Zhigang, Wang Junzheng and Zhao Jiangbo</i>	
Robust Tracking of Interconnected Systems with Uncertainties and Delays.....	1672
<i>Ni Maolin and Li Guo</i>	
Stability and Control of a Class of Constrained Hamiltonian Systems*	1675
<i>Cai Xin, Wang Yuzhen and Sun Weiwei</i>	
High Precision Robust Controller Design for PMSM Servo System with Multi-operating-points	1680
<i>Yang Shusheng and Zhong Yisheng</i>	
Protein Structure Class Analysis Based on Multifractal and Quotient Space*	1685
<i>Zheng Tingting, Mao Junjun, Wu Tao and Song Jie</i>	
An Open-plus-closed-loop Control for Chaotic Mathieu-Duffing Oscillator*	1690
<i>Shen Jianhe, Chen Shuhui and Cai Jianping</i>	
The Principle and Control Optimization Strategy of Aluminum Electromagnetic Roll-casting.....	1695
<i>Xie Yanbin, Ling Yuhua, Liao Liqing and Yang Xinrong</i>	
Model and Control for Gravure Register Printing System	1700
<i>Deng Zhonghua, Li Xi and Ye Xiaomeng</i>	
Launch Decision on Revenue Maximization in Web Advertising	1704
<i>Zhang Zhihua, Wang Li and Liu Hong</i>	
A Novel Clustering Algorithm Based on Hierarchical and K-means Clustering*	1709
<i>Li Wenchao, Zhou Yong and Xia Shixiong</i>	
The Research and Application on Wavelet Energy Eigenvalues of a Faulty Generator Set *	1714
<i>Hou Rongtao</i>	
NSIS-based Resource Reservation for NEMO.....	1719
<i>Yan Xuying, Peng Jun, ZhangWei, Li Chunming and Tong Haitao</i>	
Mouth Detection Based on Interest Point.....	1724
<i>Wang Li, Ye Hua and Xia Liangzheng</i>	
Adaptive Control of a Class of Uncertain Nonlinear Systems with Unknown Control Directions	1728
<i>Du Jialu, Yu Shuanghe, Guo Chen and Zhao Yongsheng</i>	
Riesz Basis Property for Generic Network of Strings	1733
<i>Guo Yanni, Xu Genqi and Yang Lingling</i>	

Parameter Identification of T-S Fuzzy Models Based on Particle Swarm Optimization Algorithms	1737
<i>Ding Yuan, Gao Xiaozhi, Huang Xianlin and YinHang</i>	
Set Stabilization of Nonholonomic Mobile Robots	1741
<i>Yang Jie and Li Shihua</i>	
Robust Operation Strategy Design for a Closed-loop Supply Chain with Uncertain Demands.....	1746
<i>Xu Jiawang and Jiang Bo</i>	
Exponential Stability of Ito Differential Systems of Neutral Type withMarkov Switching.....	1751
<i>Liu Hong liang and Duan Guang ren</i>	
An Iterative Learning Control with Alignment Initial Condition for a Class of Nonlinear Systems	1756
<i>Yang Zaiyue and Chan C. W.</i>	
Resisting Cropping Robust Adaptive Watermarking Embedding and Extracting Algorithm Based on Multi-address*	1762
<i>Gu Qiaolun, Gao Tiegang and Chen Zengqiang</i>	
Hopf bifurcation analysis in the Lorenz-type System*	1766
<i>Yang Qigui and Liu Mengying</i>	
Development of Precision Parallel Robot in ICF Research	1771
<i>Sun Lining, Li Changfeng, Qu Dongsheng and Liu Yanwu</i>	
A Kind of Fuzzy Constructive Neural Network and its Application*	1775
<i>Wu Tao, Chen Liwei, Mao Junjun and Zhang Ling</i>	
On Precise Photoelectric Measurement Device for Dimension	1780
<i>Li Mingwei, Zhou Lei and Yang Guangwei</i>	
The model of quotient fractal based on the theory of quotient space*	1783
<i>Mao Junjun, Zhang Ling, Zheng Tingting and Wu Tao</i>	
On Control Decision Management System for Heating Boilers	1789
<i>Wang Si-yuan, Wang Dong, Shao Cheng and Zhang Runtong</i>	
An Adaptive and Asynchronous MAC Protocol for Wireless Sensor Network.....	1794
<i>Yang Xi, Fan Xiaoping, Liu Shaoqiang and Qu Zhihua</i>	
Optimal Production Strategies for Power Providers with Incomplete Information.....	1799
<i>Zhang Xiaoyu, Zhu Xiaoliu, Xu Baoguo and Jiao Zhuqing</i>	
Disruption Scheduling of Airport Gate Based on Tabu Search Algorithm*	1802
<i>Zhang Jingjie, Chen Qiushuang, Sun Guohua and Zhang Qian</i>	
Aggregation and Pattern Formation of Multi-Agent Systems*	1807
<i>Chen Zhifu and Chu Tianguang</i>	
Swarm Dynamics and Coordinated Control.....	1812
<i>Chu Tianguang, Chen Zhifu, Wang Long and Xie Guangming</i>	

Numerical Realization of Plane CWComplexes Under a Given ‘Flow Condition’ in Gradient-like Morse-Smale Controlled Systems*	1817
<i>Enomoto Ryuji and Hamaguchi Saori</i>	
T-S Fuzzy Modeling and Application Based on Satisfactory Optimization*	1823
<i>Liu Jianfeng, Gui Weihua and Huang Zhiwu</i>	
Forecasting of Urban Water Demand Based on Chaos Theory	1828
<i>Wei Xizhu</i>	
Simple Grid Based on Cognitive Mechanism and Application Research on Description for Structure of Chinese Character	1832
<i>Liang Tiancai, Qiu Zhiwen and Pi Youguo</i>	
The Frame of Cognitive Pattern Recognition	1837
<i>Pi Youguo, Shu Huailin and Liang Tiancai</i>	
Iterative Learning Control for the Singular Systems with Delay*	1840
<i>Tian Senping, He Gang and Zhou Lun</i>	
Stabilization of the Belgian Chocolate System via Low-order Controllers	1844
<i>He Guannan, Wang Long, Xia Bican and Yu Wensheng</i>	
On Invariant-based Object’s Locating Method*	1849
<i>Ji Zheng, Zhang Jianqing and Zhan Zongqian</i>	
Least Squares Based Blind Identification Algorithms for Deterministic Systems from Multirate Sampled Data*	1854
<i>Chen Huibo and Ding Feng</i>	
On Highway Tunnel Intelligent Control	1858
<i>Shi Zhigang</i>	
On Route-Planning of UAV Based on Discrete PSO and Voronoi Diagram	1861
<i>Peng Jianliang, Zhu Fan, Sun Xiuxia and Sun Biao</i>	
The Crane Scheduling Problem and the Hybrid Intelligent Optimization Algorithm GASA*	1865
<i>Sun Jun qing, Li Ping and HanMei</i>	
Applying Nonlinear Programming to Solve Optimal Control Problem of Lunar Probe Soft Landing*	1870
<i>Shan Yongzheng and Duan Guangren</i>	
The Analysis of Finite-time Stability for Time Varying polytopic systems	1873
<i>Zhong Zhen and Duan Guangren</i>	
Impulsive Decentralized Stabilization of Stochastic Large-scale Systems	1878
<i>Yang Zhichun</i>	
A New Method of Automatic Reading of High-precision Pointer Meter	1882
<i>Zhang Yanling, Wang Renhuang and Chen Guoqing</i>	
Design of History Database for Networked Control Systems*	1887
<i>Zhu Youzhi, Peng Peng and Zheng Geng</i>	

Design and Implementation of Remote Supervisory Control and Fault Diagnostic System for Construction Equipments	1892
<i>Zhou Xuan and Liang Liequan</i>	
Robust Output Regulation for a Class of Uncertain Nonlinear Systems.....	1896
<i>Chen Zuoxian, Ji Haibo and He Defeng</i>	
Set Membership Parameter Estimation for Linear Systems Subject to Bounded Disturbances*	1900
<i>He Qing</i>	
Optimization of the Hydraulic Synchronous Control Parameters Based on Simplex Method.....	1904
<i>Liu Zhongwei, Liu Saojun, Deng Yi, Zhou Yucai, Huang Minghui, and Deng Yingjian</i>	
Analysis of Stability and Robust Stabilization for Impulsive Switched Stochastic Systems	1908
<i>Yang Ying, Li Junmin, and Chen Guopei</i>	
Modeling and Simulation of High-speed Maglev Vehicle/Guideway/Bridge Coupling System*	1912
<i>Deng Yashi, Wei Qingchao, Ni Yongjun, and Shi Jin</i>	
A New Data Processing Approach Research to Auto-fluorescence Spectrogram for Colorectal Carcinoma*	1918
<i>Fan Xiaoping, Liao Zhifang, Chen Yuzhou, Liao Zhining, and Qu Zhihua</i>	
Robust Performance Rule Design for Stochastic Nonlinear Systems with Model Uncertainty.....	1923
<i>Wei Bo, Ji HaiboWu Rina</i>	
Collision and Priority of Packet Based Adaptive Enhanced Distributed Coordination Function*	1927
<i>Wang Yan, Jin Shunfu</i>	
Fault Diagnosis of Power Electronic Circuits Based on Support Vector Machine.....	1932
<i>Liang Yu, Wang Yigang, and Wang Na</i>	
The Stability Analysis of a Controlled Spacecraft with a Retractable Flexible Appendage	1936
<i>Shen Shaoping, Wu Hongxin, and Li Zhibin</i>	
Fire Patterns of HH Neuron under External Sinusoidal ELF Stimulus*	1941
<i>Han Chunxiao, Wang Jiang, and Li Huiyan</i>	
H Adaptive Variable Universe Fuzzy Control for Autonomous Vehicles*	1946
<i>Chen Lisong, Wang Jiang, and Li Nuo</i>	
Robust FIR Filters for Linear Continuous-time State Space Models with Uncertainties*	1951
<i>Quan Zhonghua, Han Soohee, and Kwon Wook Hyun</i>	
Robust Decentralized Sliding Mode Control for Large Scale Uncertain Systems.....	1955
<i>Mnasri Chaouki and Gasmi Moncef</i>	
Autonomous Construction of Reliable Multi-agent Systems*	1961
<i>Zhang Libin, Zhu Qianyu, and Wang Wei</i>	
Solution of Schrödinger Equation Based on State Transition Matrix*	1964
<i>Xing Yifan, Xiao Qinwen, Chu Diyang, Sun Xice, and Wu Jun</i>	

Tuning of the Structure and Parameters of Wavelet Neural Network Using Improved Chaotic PSO*	1967
<i>Yu Guangbin, LiGuixian, Bai Yanwei, and Jin Xiangyang</i>	
Inverse System Control of Nonlinear Systems Using LS-SVM*	1972
<i>Lv Guofang, Song Jinya, Liang Hua, and Sun Changyin</i>	
Movement Control of Multi-Agent System with Multiple Leader Based on Potential Function	1976
<i>Wang Li,Cheng Zengqiang, Liu Zhongxin, and Yuan Zhuzhi</i>	
Optimal Tracking Performance of a Linear System with a Quantized Control Input*	1980
<i>Liu Yin, Qi Tian, and Su Weizhou</i>	
On Scheduling Model and Algorithm of Production Units of Refinery	1985
<i>Zhao Xiaoqiang, Li Zhanming, and Liu Jun</i>	
Throughput Capacity of Interference-Limited Hybrid Wireless Networks*	1990
<i>Chen Lin, Jiang Changjun, and Chen Hongzhong</i>	
Control Location Selection Strategy for Power System Emergency Control *	1995
<i>Zhang Xuemin and Mei Shengwei</i>	
Solution of Singularity Problem in Motion Control of Acrobots*	2000
<i>Lai Xuzhi, She Jinhua, Wu Min, and Yang Simon</i>	
A Design of Vision-based Location Control System for Steel Rolling Mill	2005
<i>Chen Wei, Fang Kangling, and Liu Xinhai</i>	
The Application of Peer to Peer SAP-based Q-Learning in Task Assignment to Multiple Robots	2009
<i>Ding Lijie, Tang Hao, and Zhou Lei</i>	
Stability of Polynomial Systems via Polynomial Lyapunov Functions*	2013
<i>Qi Hongsheng and Cheng Daizhan</i>	
PSO-based Parameter Estimation of Nonlinear Systems*	2018
<i>Ye Meiyiing and Wang Xiaodong</i>	
On Modified Strategy Based on the Model of Particle Swarm Optimization	2022
<i>Miao Guangxiang, Niu Yuguang, Chen Xiangyang and Zhang Haiping</i>	
Research on Temperature Testing System of Pitch Transport Vehicle Basing on DS18B20 Mode*	2026
<i>Deng Yi, Liu Saojun, Liu Zhongwei, and Zhou Yucai</i>	
Modeling and Simulation of Field Oriented Controlled Large Air-gap Linear Induction Motor	2029
<i>Wang Liqiang, LeiMeizhen, Lu Qinfen, and Ye Yunyue</i>	
Stochastic Stabilization of Markovian Jump Systems with State and Input Delays*	2034
<i>Kang Yu</i>	
A Novel Population Prediction Method Based on Optimization GM(1,1) Model*	2039
<i>Wei Changshun, Shen Yinhua, and Wei Lisheng</i>	

Design of EBW Stabilized High-Voltage Source Based on Fuzzy PID Control*	2043
<i>He Shaojia, Mo Jinhai, Wei Shouqi, and Huang Dao</i>	
Quadratic Stabilization of Discrete Interval 2-D Systems	2048
<i>Liu Zhengyu, Han Jianghong, Zhang Li, and Guo Qijun</i>	
The Static Testing System of Three-phase Linear Induction Motor Based on Virtual Instrument	2052
<i>Wang Liqiang, Lu Qinfen, Ye Yunyue, and Lei Meizhen</i>	
Tracking of Nonholonomic Control Systems Based on Visual Servoing Feedback *	2057
<i>Li Qingsong, Wang Chaoli and Niu Wenbin</i>	
On Control for Static Unstable Missiles	2062
<i>Fan Junfang, Qi Zaikang and Lin Defu</i>	
Design Methods of General Fuzzy Systems as Function Approximators	2067
<i>Gao Qian, Wang Xiuhong and Wei Xinjiang</i>	
Physiological Control of Rotary Left Ventricular Assist Device	2072
<i>Wu Yi</i>	
A Logistics Vehicle Classification Method Based Gabor Wavelet Feature Tracking*	2078
<i>Mao Jia, Li Hui, Pan Qiang and Sun Miao4</i>	
Robust stabilization and Disturbance Attenuation of a Class of MIMO Nonlinear Systems with Multi-operation Points*.....	2081
<i>Zhong Yi sheng</i>	
Multi-modal Function Optimization Based on Artificial Immune Network and Chaos	2086
<i>Deng Jiuying and Mao Zongyuan</i>	
A Non-linear PID Controller Approach Based on Variables Optimized and GRNN.....	2090
<i>Chai Yi and Ling Rui</i>	
The Control of Search and Rescue Robots with the General Suppression ontrol Framework	2094
<i>Lau Henry Y. K. and Ko Albert W. Y.</i>	
Nonlinear H8 Control of Switched Homogeneous Nonlinear Systems*	2099
<i>Zhang Lijun, Xue Suqin</i>	
Strong Tracking Particle Filter Based Fault Diagnosis for Nonlinear Systems.....	2104
<i>Liu Shirong and He Wenbo</i>	
Fair Bandwidth Allocation for Wireless Ad-hoc Networks*	2109
<i>Guan Xinping, Ma Kai and Long Chengnian</i>	
Modelling and Control of Networked Control Systems with Random Packet Losses*	2113
<i>Zhang Wen'an, Yu Li, Song Hongbo</i>	
H Analysis Method for the Small Signal Stability of Power System	2118
<i>Mei Shengwei, Che Wenyuan</i>	
Linear Time-Variant Multivariable Feedback Control Loop Performance Assessment.....	2124
<i>Zhang Tong, Wang Qinglin</i>	

Information Architecture and Control Design for Rigid Formations*	2129
<i>Anderson Brian D. O., Yu Changbin, Fidan Baris</i>	
Systems and Control Impact in a Changing World.....	2138
<i>Theodore E. Djaferis</i>	
From In.nite Horizon to Receding Horizon for Controls, Estimations and Optimizations	2146
<i>Kwon Woo Hyun</i>	
Analysis and Control of Discontinuous Dynamical Systems*	2155
<i>Shen Tielong</i>	
Hybrid Dynamical Systems: Robust Stability and Control	2164
<i>Cai Chaohong, Goebel Rafal, Sanfelice Ricardo G. and Teel Andrew R.</i>	
Systems Biology and Complex Disease	2172
<i>Wu Jiarui</i>	
Properties on the Distinguishability of Linear Systems	2173
<i>Lou Hongwei and Si Pengna</i>	
Modeling and Control of an Underactuated Helicopter Experimental System	2176
<i>Deng Mingcong, Inoue Akira, Kishida Takuya and Ueki Nobuyuki</i>	
A Parametric Lyapunov Equation Approach to the Design of Low Gain Feedback*	2180
<i>Zhou Bin, Duan Guangren and Lin Zongli</i>	
Systematic Calibration Method for the Laser Gyro Strapdown Inertial Navigation System.....	2185
<i>Yang Xiaoxia and Huang Yi</i>	
On Remote Real-time Communication between MATLAB and PLC Based on OPC Technology*	2191
<i>Zhang Lieping, Zeng Aiqun and Zhang Yunsheng</i>	
Application of Fuzzy Controller in the Speed Control of Permanent Magnet Linear Motors*	2195
<i>Zhu Linsen, Tang Yangping and Zhang Dailin</i>	
Identification of Nonlinear Dynamic System with SVR.....	2199
<i>Wu Dehui</i>	
Chaotic Synchronization of Exponent Stability by Nonlinear FeedbackBased on the Bounded Property	2203
<i>Chen Mingjie, Wang Changhong and Zhang Hongmei</i>	
Fuzzy Integration Monitor Method in Regional Economic System and Its Simulation.....	2208
<i>Zheng Shi, Zheng Wen and Jin Xia</i>	
A Robust Optimization Model for Multi-objective Operation of Supply Chain Under Uncertain Market*	2211
<i>Xu Jiawang and Huang Xiaoyuan</i>	
Improved UKF and SIFT Based on Information Fusion Method in Autonomous Optical Navigation.....	2216
<i>Sui Shulin, Sun Lihong, Yao Wenlong and Yuan Jian</i>	

A Novel Unscented Kalman Filter in Autonomous Optical Navigation*	2221
<i>Sui Shulin, YaoWenlong, Sun Lihong and Yuan Jian</i>	
Design of Full-order PD Observers for Second-order Dynamic Systems	2226
<i>Wang Guosheng, Liu Feng, Liang Bing and Duan Guangren</i>	
Optimal Control Problems of Impulsive Jumping Transition Systems	2230
<i>Guo Lei</i>	
A Modified Filter Trust Region Method for Nonlinear Programming*	2233
<i>Su Ke</i>	
Robust Output Tracking Control for Markovian Jump Time-delay Systems with Uncertain Mode Transition Rates	2237
<i>Chen Zhisheng and Li Yonggang</i>	
Stability of Linear Systems with Time Delay: A New Delay Fractioning Approach*	2241
<i>Zheng Min and Fei Shumin</i>	
Hybrid Algorithm Combining Ant Colony Optimization Algorithm with Genetic Algorithm	2244
<i>Gao Shang, Jiang Xinzi and Tang Kezong</i>	
Inverse Optimal Stabilization of a Class of Nonlinear Systems	2248
<i>Ji Guojun</i>	
The Algebraic Criterion For Nonlinear Stochastic Control Systems which the Coef.cient is Time-dependent	2253
<i>Liu Feng and Peng S</i>	
Robust H Reliable Control with Exponential Stabilization for Uncertain Delay Systems against Actuator Failure*	2256
<i>Teng Qingfang and Fan Duowang</i>	
Global Asymptotic Stability Criteria for the Interconnection of Monotone Control Systems	2261
<i>Sun Chao and He Xiqin</i>	
Dynamic Matrix Control Based on Multi-model Synthesis and Its Application	2265
<i>Mo Xiaoming</i>	
A New Method of Parameters Identification of Dynamic Systems Using Output Probability Density Function	2269
<i>Liu Taiyuan, Jia Jianfang, Wang Hong and Yue Hong</i>	
Adaptive fuzzy control for SISO nonlinear time-delay systems*	2273
<i>Qu Zifang, Du Zhenbin and Liu Zhaowei</i>	
A Method of Parameter Identification for Dynamic Systems Based on Model Output Minimum Entropy	2277
<i>Liu Taiyuan, Jia Jianfang, Wang Hong and Yue Hong</i>	
Development of Intelligent Monitor-system Based on Agent	2280
<i>Xu Dahua</i>	
Decentralized Adaptive Output Feedback Control for a Class of Time Delay Large-scale Systems	2284
<i>Xu Jianqiang and Chen Shu zhong</i>	

The Application of Robust Multivariable Observer in Tandem Cold Mills.....	2288
<i>Chen Liangui, Yang Weidong and Yang Binghu</i>	
Computer Simulation for Optimizing Assignment of Civil Airport Gate	2291
<i>Wang Li and Liu Chang You</i>	
Control of Insect-like Flapping Wing Micro Air Vehicles I: Control Mechanic*	2296
<i>Hu Minglang, Wei Ruixuan, ZhouWei and Cui Xiaofeng</i>	
Control of Insect-like Flapping Wing Micro Air Vehicles II: Control Parameter*	2302
<i>Hu Minglang, Wei Ruixuan, DongZhiXing and Cui Xiaofeng</i>	
Observer-based Robust H"- Control for Uncertain Discrete-time Systems with Both State and Input Delays*	2307
<i>Bi Weiping, Zhao Xiaoli and Qi Chunling</i>	
Combining Forecasts of Personal Credit Scoring Based on RBF Neural Network	2312
<i>Chen Yufang and Jiang Minghui</i>	
Study of Compound Optimal Control for Beer Saccharification Temperature	2315
<i>Shang Jiliang, Yu Wei and Gao Dexin</i>	
Energy-to-peak Filtering for Fuzzy Stochastic Neutral Systems with Time-delays: LMI approach*	2319
<i>Chen Zhisheng and Li Yonggang</i>	
BMI Approach to Decentralized and Cooperative Control of Large-Scale System*	2323
<i>Cao Li, Nian Xiaohong and Tang Wenyany</i>	
Adaptive Output Tracking of Nonlinear Systems in General Lower-Triangular Form	2328
<i>Wang Bing, Ji Haibo and Xi Hongsheng</i>	
Design of Sliding Mode Tracking Control for Hypersonic Reentry Vehicles*	2332
<i>Yang Junchun, Hu Jun and Lv Xiaole</i>	
Comparisons of Two Sufficient Conditions for Chaos Synchronization*	2336
<i>Cai Jianping, Wang Jiangen, Wu Xiaofeng and Chen Shuhui</i>	
Decentralized Control of Linear Systems Based on the New Viewpoint of Cooperative Control*	2342
<i>Tang Wenyany, Nian Xiaohong and Cao Li</i>	
Switched Control of Networked Control Systems	2347
<i>Ma Changlin and Jiang Hong</i>	
Eigenstructure Assignment in Second-order Linear Systems: A Parametric Design Method*	2351
<i>Wang Guosheng, Liang Bing, Lv Qiang and Duan Guangren</i>	
A Control Algorithm Base on Adaptive Critic Designs.....	2356
<i>Lin Xiaofeng, Ye Weibao, Song Chunning and Song Shaojian</i>	
Adaptive Control Based on Characteristic Model for a Hypersonic Flight Vehicle.....	2360
<i>Meng Bin and Wu Hongxin</i>	

Algorithm Analysis of Logistics Transport System Based on ERP Flexible Flat Roof	2365
<i>Liu Yuanxin, Deng Feiqi , Luo Yanhui and Shu Tianhui</i>	
Immunized Continuous Ant Colony Algorithm.....	2369
<i>Gao Wei</i>	
On A Novel Clonal Chaos Adjustment Algorithm	2374
<i>Hong Lu and Mu Zhichun</i>	
Adaptive State-Feedback Stabilization for High-Order Stochastic Nonlinear Systems with Time-Varying Control Coef.cients*	2379
<i>Tian Jie and Xie Xuejun</i>	
Quadratically Stable Fuzzy Control for a Class of Uncertain Nonlinear Systems	2384
<i>Du Zhenbin, Qu Zifang and Ren Junyi</i>	
A New Online-Identification Algorithm for Odometer's Scale Factor	2388
<i>Zhang Hongliang, Wu Wenqi and Hu Xiaoping</i>	
Robust Controller Design for a Class of Time Delay Systems with Uncertainty	2393
<i>Li Shurong, Yang Qing and Xue Xiuli</i>	
Dynamic Walking Control of Underactuated 3D Biped Robot	2398
<i>Sheng Tao, Wang Jian, Cai Wenlan and Ma Hongxu</i>	
Improved Particle Swarm Optimized SVM for Short-term Traffic Flow Predication*	2404
<i>Cao Chengtao and Xu Jianmin</i>	
Overview of the Iterative Feedback Tuning.....	2408
<i>Wang Weihong, Hou Zhongsheng and Jin Shangtai</i>	
Large-scale Hydropower Station Economic Dispatch Based on Immune Algorithm.....	2413
<i>Xu Chenguang and Zhao Maihuan</i>	
A Comparison Study of PD Control of Joint Velocity in Robot Arms*	2416
<i>Song Naihui, Ren Zhaohui, Wang Yongfu and Wen Bangchun</i>	
On an Output Feedback Stabilization Problem for a Class of Nonlinear Systems*	2420
<i>Li Zili, Chen Zengqiang and Yuan Zhuzhi</i>	
Control System Design for Radiator Thermal Characteristics Experiment System*	2424
<i>Wang Jiangjiang, ZhangChunfa, JingYouyin and An Dawei</i>	
Model-free Adaptive with Human-simulated Intelligent Control and its Application in Super-heated Steam Temperature System.....	2430
<i>Xu Aidong, Li Chuanqing, Chen Yanjun, Liu Guangsheng and Han Li</i>	
Multisensor Information FusionWiener Deconvolution Predictor	2434
<i>Mao Lin and Deng Zili</i>	
Cooperative Control for Target Search, Classification and Attack for AUAVs (Attack Uninhabited Air Vehicles).....	2438
<i>Shen Yanhang and Zhou Zhou</i>	
On Lower Bounds of the Solution of the Discrete Time Algebraic Riccati Equation.....	2442
<i>Chen Dongyan and Bi Haiyun</i>	

A Lunar Terrain Reconstruction Method Using Long Base-line Stereo Vision*	2445
<i>Jie Ming and Huang Xianlin</i>	
On the Robustness Mechanism of H-infinity Filter Based on Gain Maladjustment Gene	2450
<i>Li Jinliang, Hao Shunyi and Wu Gaolong</i>	
Delay-dependent Robust Passive Control for Uncertain Systems with Time-varying Delays*	2455
<i>Qiu Jiqing, Gao Zhifeng, Shi Peng and Yang Hongjiu</i>	
Path Planner of Nonholonomic Wheeled Mobile Robots Based on Navigation Evaluation Function	2459
<i>Zheng Xiaoguang, Zhuang Yan and WangWei</i>	
On Integrated System for Commercial Concrete Enterprise*	2464
<i>Yao Minghai, Li Haihong and Zhu Hua</i>	
An Active Fault Tolerant Controller Design Method for Time-delay Systems*	2469
<i>Wu Junsheng, Weng Zhengxin, Tian Zuohua and Shi Songjiao</i>	
Non-Fragile H∞ Robust Control of Uncertain Nonlinear Systems Based on T-S Model*	2473
<i>Yue Jumei, Li Junmin and Yan Yongyi</i>	
Boundary Element Method for Boundary Control Problems*	2478
<i>Yan Ningning</i>	
An Analysis of Game of Electricity Trade in Electricity Power Market*	2483
<i>Wang Honglei and Wei Yiming</i>	
Adaptive Constrained Predictive PID Controller via Particle Swarm Optimization*	2488
<i>Song Ying, Chen Zengqiang and Yuan Zhuzhi</i>	
Text Location on Complex Background Using DWT and Morphology Operation*	2493
<i>Shen Qinghua, Li Shutao and Li Yi</i>	
An Extensible XML Mapping Architecture*	2498
<i>Wu Jiyi</i>	
VSC Based on CMAC Neural Network for a Class of MIMO Nonlinear System	2501
<i>Wu Guangbin</i>	
On Speech Emotion Recognition System in E-learning	2505
<i>Yin Chunyong, Sun Ruxia and Luo Qi</i>	
Self-tuning Measurement Fusion Kalman Predictor	2509
<i>Jia Wenjing , Gao Yuan and Deng Zili</i>	
Self-tuning Decoupled Component Information Fusion Kalman Smoother	2515
<i>Gao Yuan, Zhang Peng, Jia Wenjing and Deng Zili</i>	
Relative Localization of Mobile Robots Based on Bayesian Theory	2520
<i>Chen Yuqing, Hu Ying and Ma Zi</i>	
Delay-Dependent Dynamical "- H Control of Linear State-Delayed Systems	2525
<i>Wang Dejin</i>	

Repeated N-Person Stochastic Cooperative Games: Superadditivity,Convexity*	2531
<i>E Chengguo, Gao Zuofeng and Mao Ali</i>	
Image Segmentation Based on the Mean-Shift in the HSV Space.....	2535
<i>Li Siqiang and Liu Wei</i>	
On Image Edge Detection Based on Grey Absolute Degree of Incidence and LOG Operator*	2539
<i>Li Junfeng, Yang Aiping, Dai Wenzhan and Pan Haipeng</i>	
An Adaptive Fuzzy Image Enhancement Algorithm for Local Regions.....	2544
<i>Yan Maode, Bo Shaobo, Li Xue and He Yuyao</i>	
Exponential Stability of Delayed High-order Hopeld-type Neural Networks with Diffusion*	2548
<i>Lou Xuyang and Cui Baotong</i>	
Fault-tolerant Design of Computer Cyclic Check and Control System.....	2552
<i>Hu Shaolin, Meinke Karl and Chen Rushan</i>	
Isotope Online Ore Pulp Concentration Gauge Using Fuzzy Logic.....	2557
<i>Tang Yaogeng, Gao Song, Ouyang Huibin and Li Lanjun</i>	
Robust Filtering and Fixed-lag Smoothing for Linear Uncertain System with Single Delayed Measurement*	2561
<i>Zhao Hongguo, Zhang Huanshui, Zhang Chenghui and Song Xinmin</i>	
An Improved TFIDF Feature Selection Algorithm Based On Information Entropy.....	2566
<i>Zhou Yantao, Tang Jianbo and Wang Jiaqin</i>	
Fault Diagnosis Method to Internal-combustion Engine Based on Integration of Scale-wavelet Power Spectrum Rough Set and Neural Network	2570
<i>Chen Baojia, Li Li and Zhao Xinze</i>	
Delay-Dependent Stability and Stabilization for Uncertain Discrete Markovian Jump Singular Systems with Mode-Dependent Time-Delay *	2575
<i>Ma Shuping and Zhang Chenghui</i>	
A Method of Noise Model Identification Based On M-Series.....	2580
<i>Li Huijun, Wang Qigang, Ji Gang and Ma Zengliang</i>	
On the OptimumMethod of Feedforward Multi-Layer Neural Network*	2583
<i>Hu Ying and Huang Jin</i>	
A New Fast Algorithm to Rectify Tilt Image of Vehicle License Plates*	2587
<i>Ye Qing, Zhu Liang Hong, Zhu Su Hong and Li Xue</i>	
Multifractal Spectrum and their Applications in Metal Fracture Surface Images Identification*	2591
<i>Weng Guirong and Qin Shuwei</i>	
Neural Networks-based Control Strategy for Single-Phase Shunt Active Power Filter*	2595
<i>Rong Yuanjie, Tang Honghai, Zheng Xuesheng, Wang Rongrong and Li Chunwen</i>	
On Modeling of WWW Wireless Traffic in UMTS	2599
<i>Zhang Youzhi, Pei Tingrui, Wang Yalan and Guo Dezh</i>	

A Kind of Multi-rate Predictive Control for Time-delay Systems*	2603
<i>Liu Xiaohua and Liu Jing</i>	
A Camera Calibration Method Based on 2D Homography	2607
<i>Zhang Xuebo, Fang Yongchun and Ma Bojun</i>	
Optimization and Application of EPA Device Description Based on XML*	2612
<i>Yang Suying, Fang Lixin, Zhong Chongquan and Lu Xinkai</i>	
Design for BTT Missile Controller Base on the RBF Neural Networks*	2617
<i>Huang Shengjie, Zhao Zhuwei and Luo Qi</i>	
A Novel Algorithm Reducing All-sky Star Pattern Recognition's Delay Time	2622
<i>Hu Haidong and Huang Xianlin</i>	
Delay-dependent Guaranteed Cost Control for Nonlinear Neutral Systems with Mixed Delays	2626
<i>Chen Yonggang and Bi Weiping</i>	
Diagnosis for Systematic Errors Using Grey System Theory*	2630
<i>Xia Xintao</i>	
A Particle Swarm Optimal Algorithm for Multiple Path Toll Problems on Freeway Networks	2635
<i>Li Shuguang</i>	
Dynamic Model Making for Iterated Prisoner's Dilemma Based on Markov Chain	2639
<i>Peng Liang, Liu Haiyun, Liu Weibing and Wang Xianjia</i>	
Modeling and Guaranteed Cost Control of Three-phase APF Based on Switched Linear System	2643
<i>Tang Honghai, Li Chunwen, Zheng Xuesheng, Rong Yuanjie and Liu Yanhong</i>	
On MEMS Design Automation*	2648
<i>Zhao Xin, Sun Guangyi, Ren Liang and Lu Guizhang</i>	
Effective Nonlinear Predictive Control with Regional Stability	2653
<i>He Defeng, Ji Haibo, Chen Zuoxian and Zheng Tao</i>	
Inner Mechanism-Based Real Time Data Fusion of the Multisensors of Magnetic Bearings *	2658
<i>Ku Shaoping and Hu Yefa</i>	
On Adaptive Sliding-Mode Control for Cross Beam System*	2662
<i>Zhao Hongchao, Zhang Ruchuan, Wang Ting and He Mingxing</i>	
The Stability of Discrete Impulsive Control System*	2665
<i>Liu Feng, Guan Zhihong and Wang Hua O</i>	
Position Accuracy Improvement of PMLSM System Using Artificial Immune Algorithm	2669
<i>Liu Yang, Tan Boxue and Zhang Xue</i>	
A Linear Motor Position Control Based on the Artificial Immune Clustering Methodology	2673
<i>Liu Yang and Liu Ying</i>	
Exception Handling Model for Web Service Composition Using Meta-Process	2677
<i>Fu Xiaodong and Zou Ping</i>	

Self-adaptation PID Ramp Controller in Freeway Based on Single Neuron	2681
<i>Wei Yanxiu and Liang Xinrong</i>	
Robust Strictly Dissipative Control for Singular Systems with Time-delay and Parameter Uncertainties*	2685
<i>Dong Xinzhuang</i>	
Inverse Kinematics Analysis for a MobileManipulator with Redundant DOFs.....	2690
<i>Ma Bojun, Fang Yongchun and Zhang Xuebo</i>	
The Application of SP(C+E+G+J) Model for Market Economics System to Controlling and Decision	2695
<i>Zhou Zenan and He Zhongxiong</i>	
Using Sequential Kalman Filters for State Estimation of Nonlinear Systems.....	2699
<i>Mohammadi S., Mohammadi A., Keivani H., Askari M. R., Kavehnia F. and Ghanbarian M. M.</i>	
Rotor Speed Estimation Using Zero-Crossing Times Signal of Stator Current	2703
<i>Ghanbarian M. M., Mohammadi A., Kavehnia F. and Keivani H., Askari M. R., Mohammadi S.</i>	
On Decision Making Support Technology for Tactical Mission Planning	2708
<i>RenMin, Hu Hongjuan and Shen Lincheng</i>	
Signal Analysing of Failure monitoring system for gear chain*	2712
<i>Zheng Lijun and Yu Lixin</i>	
Finite Time Tracking Controller Design of the Permanent-Magnet Synchronous Motor*	2716
<i>Wu Yuqiang, Ma Xin and Zong Guangdeng</i>	
Speed-sensorless Direct Torque Control for Asynchronous Machine Based on Extended Kalman Filter.....	2720
<i>Liu Xianxing, Qiao Wei, Zhou Xu and Hu Yuwen</i>	
Decoupling Control of the 5 Degree-of-Freedom Bearingless Induction Motor Based on α-th Order Inverse SystemMethod	2724
<i>Liu Xianxing, Dong Lei, Fan Wenjin and Sun Yuxin</i>	
Decoupling Control of the Bearingless Induction Motor Based on Differential Geometry Variable-structure Method*	2729
<i>Dong Lei, Liu Xianxing and Sun Yuxin</i>	
Decentralized Robust H_∞-Output Feedback Control for Value Bounded Uncertain Large-scale Interconnected Systems	2734
<i>Xie Yongfang, Huang Can, Gui Weihua, Jiang Zhaojun and Yang Chunhua</i>	
Constraints Analysis in the Motion Control Process of Parallel Robots*	2741
<i>Guo Sheng, Fang Yuefa and Huai Chuangfeng</i>	
Dynamic Asset Allocation Strategy Based on Estimated Excess Demand.....	2746
<i>Gan Min, Peng Hui and Liang Liang</i>	

A Fuzzy-PID Control System of PTFE Sintering Furnace Based on Lonworks*	2751
<i>Gong Chenglong, Feng Yuan, Wang Jingzhuo, and Song Yongxian</i>	
Nonlinear Control for Synchronization Scheme to Chaotic Fractional Order Chen-Lee Systems*	2755
<i>Toossian Shandiz Heydar and Hajipoor Ahmad</i>	
Image Target Recognition Using Pulse Coupled Neural Networks Time Matrix*	2758
<i>Liu Qing, Ma Yide, Zhang Shaogang and He Wansheng</i>	
Impulsive Synchronization of Typical Hopfield Neural Networks*	2762
<i>Zhang Qunli and Jia Guanjun</i>	
A Line Detection Algorithm Based on Error Propagation*	2766
<i>Gao Xiao Qing and Peng Tao</i>	
An Improved Speed Identification Method Based on MRAS*	2770
<i>Huang Zhiwu, Yang Tongguang, Gui Weihua, Shan Yongteng and Nian Xiaohong</i>	
Optimal Dynamic Pricing Strategies with Two Differentiated Products*	2775
<i>Wei Jie and Tu Fengsheng</i>	
Fuzzy Control of Underwater Robots Based on Data Mining	2780
<i>Liang Xiao, Sun Yushan, Guo Bingjie and Wang Bo</i>	
Absolute Stability Analysis for Lurie Control System with Time-varying Delays	2784
<i>Zhao Zhengrong and Wang Wei</i>	
Maximum Principle for Fully Coupled Forward-backward Stochastic Control System with Random Jumps*	2788
<i>Shi Jingtao and Wu Zhen</i>	
Output Feedback Asymptotic Stabilization of Nonholonomic Systems with Strong Nonlinear Drifts*	2794
<i>Wu Yuqiang and Zong Guangdeng</i>	
Analysis and Modeling of MIMO Networked Control Systems	2799
<i>Wu Cuiqin, Li Aihua and Zhang Zhenren</i>	
A Bayesian Framework for Target Tracking in Sensor Networks*	2803
<i>Cheng Yuanguo and Li Guohui</i>	
Bus Technology Application in Automobile	2807
<i>Xie Xiaohua, Ma Yan and Chen Hong</i>	
Guaranteed Cost Reliable Control with Exponential Stabilization for Uncertain Delay Systems against Actuator Failure	2811
<i>Teng Qingfang and Fan Duowang</i>	
Output Feedback H_∞ Robust Control for Uncertain Multiple Time-varying Delays Systems with Nonlinear Perturbations	2816
<i>Ma XinJun and Xu Bugong</i>	
The Model-free Learning Adaptive Control for DC Motor Rotate Speed Systems	2821
<i>Cao Rongmin, Hou Zhongsheng and Huang Jian</i>	

On Key Control Problems of Deep Seabed Moving Mining Robot*	2826
<i>Chen Yong, Gui Weihua, Yang Chunhua, Wang Suiping and Xie Yongfang</i>	
Spacecraft Adaptive Robust Attitude Tracking Control with New Actuator	2830
<i>Liu Jun and Han Chao</i>	
Global Smooth Solutions for Quasilinear Wave Equation with Locally Internal Damping*	2836
<i>Zhang Zhifei and Yao Pengfei</i>	
Leukocytes Image Segmentation and Extraction Based On Mathematical Morphology*	2840
<i>Sha Shengzhong, Weng Guirong and Qin Shuwei</i>	
Parameter Identification of LuGre Friction Model in Servo System Based on Improved Particle Swarm Optimization Algorithm	2843
<i>Zhang Wenjing</i>	
Delay-dependent Robust H_{∞}- Control for Uncertain Discrete Singular Time-varying Delay Systems Based on a Finite Sum Inequality*	2848
<i>Wang Huijiao, Xue Anke, Lu Renquan and Chen Yun</i>	
A Modified Modular Ring Network and Its Synchronizability	2853
<i>Liu Jie and Lu Junan</i>	
New Exponential Stability Criterion for Delayed Cellular Neural Networks *	2859
<i>Liu Xinge, Ou Xiaobo and Tang Meilan</i>	
Chaotic Principle and Control of a Kind of Finance Systems	2863
<i>Zheng Jiming and Pu Xingcheng</i>	
Boiler-turbine Coordinated Control of Power Plant Based on the Adaptive Backstepping Method	2867
<i>Wang Yinsong, Tian Ruili and Lui Lixia</i>	
Studies On the Weak ElectricWave Signals of Plants by the Wavelet Analysis	2871
<i>Ding Jinli, Wang Lanzhou, Li Haixia and Li Dongsheng</i>	
An MPC Approach to Networked Control Design*	2875
<i>Wu Jing, Zhang Liqian and Chen Tongwen</i>	
Global Behavior of Dynamical Agents in Directed Network*	2880
<i>Yu Hongwang, Zheng Yufan and Leng Cuiping</i>	
Design and Realization of Evaluation Environment in the Performance Analysis of Intrusion Detection System	2885
<i>Liao Guiping, Yu Fei, Shen Yue, Zhang Linfeng and Xu Cheng</i>	
An Approximate Algorithm for k-Means Problem Based on Input Points*	2889
<i>Wang Shouqiang, Zhu Daming and Shi Shiying</i>	
Standard Neural NetworkModel for the Feedback Stabilization of Intelligent Systems*	2894
<i>Liu Meiqin, Zhang Senlin and Yan Gangfeng</i>	
An FDI Approach for Aircraft Actuator Partial Failure*	2899
<i>Wang Dan, Wu Zhiliang, Yao Yubin and Niu Xiaobing</i>	

Multivariate Perturbed Pad Approximation*	2904
<i>Zheng Chengde and Zhang Huaguang</i>	
An LQR/Pole Placement Controller Design for STATCOM	2909
<i>Nekoui Mohammad Ali and Valipourearkhloo Amin</i>	
A Model Reference Adaptive Controller Design for Discrete Hammerstein Systems	2914
<i>Shen Qingbo and Ding Yuanming</i>	
On Exponential Stability of Switched Systems with Delay: Multiple Lyapunov Functions Approach*	2919
<i>Cong Shen, QianWei and Fei Shumin</i>	
HTS Levitation and Transportation with Linear Motor Control	2924
<i>Jin Jianxun, Guo Youguang, Chen Jiaxin, Zheng Luhai and Zhu Jianguo</i>	
Co-Compensation for Transmission Delay and Packet Dropout in Networked Contrd System	2929
<i>Wang Tian kun, Zhou Li hui , Han Pu and Xu Da ping</i>	
Reachability Realization for a Class of Switched Impulsive Control Systems by Means of Periodic Switchings*	2934
<i>Ji Zhijian, Feng Gang and Guo Xiaoxia</i>	
Generalized Fuzzy Enhancement Based Recognizing Method for Planar Objects*	2939
<i>Wang Zaifu</i>	
A new Methodology of Mining Cognitive Maps*	2944
<i>Chen Zhuang and Montazemi Ali R.</i>	
Collective Behaviors and Self-organizing Cooperation	2949
<i>Wang Long, Fu Feng, Chen Xiaojie, Chu Tianguang and Xie Guangming</i>	
A Novel Kernel PCA Support Vector Machine Algorithm with Feature Transition Function*	2954
<i>Wang Lianhong, Zhang Guoyun and Zhang Jing</i>	
A Linear Temperature Transmitter Based on Thermocouples Reference Tables	2957
<i>Liu Xi min</i>	
On Intelligent Control of Combustion for CFB Boiler in Thermal Power Plant	2961
<i>Meng Qingjin, Quan Yue and Jing Shaohong</i>	
Robust Landing Control and Simulation for Flying Wing UAV	2964
<i>Wang Rui, Zhou Zhou, Shen Yanhang</i>	
Control Strategy of Human-Like Intelligent Control	2969
<i>Wang Peijin, Mu Zhiqiang and Ma Wenming</i>	
Multi-object Negotiation Mechanism of Manufacturing Enterprise Supply Chain Based on Multi-Agent	2974
<i>Yang Changhui</i>	
Stability of Distributed Heterogenous Systems with Static Nonlinear Interconnections	2978
<i>Geng Zhiyong</i>	

Identification for Multivariate ARMA Systems without SPR Condition *	2983
<i>Chen Hanfu</i>	
A Novel Proximal Support Vector Machine and Its Application in Radar Target Recognition*	2988
<i>Tao Xiaoyan, Xia Jingbo and Zhang Rui</i>	
Model-free Adaptive Control Used in Permanent Magnet Linear Motor	2991
<i>Jin Shangtai, Hou Zhongsheng and Wang Weihong</i>	
Path Following Control of Tractor-trailers with Off-axle Hitching	2995
<i>Zhou Huofeng and Ma Baoli</i>	
Developed Adaptive Control System Design with a Model-Free External Loop as a Compensator	2999
<i>Cai Manjun, Liu Mingkun, Tian Guangjun and Liu Jianjun</i>	
Stability Analysis of Network-Based Control Systems Subject to Jitter of Sampling Rates and Time Delays*	3003
<i>Seng Qing, Gui Weihua, Yang Chunhua and Xiong Ying</i>	
Comparison and Design of High Performance Straight-Line and Circular Arc Interpolations	3007
<i>Liu Yi and Cong Shuang</i>	
An New Offset Model for Arterial Road Coordinate Control and Its Optimization Method*	3012
<i>Lu Kai, Huang Jianxin and Xu Jianmin</i>	
Vibration Control of Vehicle-bridge Dynamic Interactive System*	3018
<i>Wu Wei and Liu Lin</i>	
Wireless Sensing and Control of Structural Vibration from Earthquake*	3023
<i>Liu Lin, Dyke Shirley J and Veto Rebecca</i>	
Stabilization of Linear Discrete Systems with Transmission Delay	3028
<i>Zhu Jiandong</i>	
Development of Measurement System Applied to Detecting the Parameters of Oxygen Sensor	3032
<i>Feng Guosheng, Wang Haihua, Li Jun and Xue Shufa</i>	
The Application of Sequential Minimal Optimization Algorithm In Short-term Load Forecasting	3036
<i>Zhou Qian, Zhai Yong Jie and Han Pu</i>	
Design of a VSC Controller of Reduced Inputs for Satellite Formation Flying	3040
<i>Wang Zhaokui, Zhang Yulin</i>	
A Real Time Lip Detection Method in Lipreading	3045
<i>He Jun and Zhang Hua</i>	
K-exponential Stabilization of Uncertain High-order Nonholonomic Chained Systems*	3050
<i>Guo Xiaoli, Mu Xiaowu and Li Le</i>	
Create Multi-dimension Linked Lists on Recursive Algorithm and the Application	3054
<i>Chen Guangyi, He Zhao Yong</i>	

State Observers for Nonlinear Dynamic Systems*	3058
<i>Dong Yali</i>	
Adaptive Notch Filter Based Algorithm for Direct Complex Frequency Estimation.....	3063
<i>Yang Jian, Xi Hongsheng, Li Jing and Wei Xing</i>	
Stabilization of the Inertia Wheel Pendulum by Time-Delayed State Feedback	3066
<i>Ye Huawen, Peng Sendi, Gui Weihua and Yang Chunhua</i>	
Tracking Control Based on Fuzzy Strategy for Underwater Manipulator*	3071
<i>He Jin, Wang Jie and Wang Hua</i>	
Optimal Robust Control for Uncertain Impulsive Systems*	3075
<i>Liu Bin and Hill David J.</i>	
A Prospective Study of the Price Behaviors of Chinese Stock Markets*	3080
<i>Zheng Feng, Zhang Runtong and He Lingyun</i>	
Using Good Nodes Set Principle to Evolution Strategy for Constrained Optimization*	3085
<i>Xiao Chixin and Cai Zixing</i>	
2D Real-valued Discrete Gabor Transform and Its Fast Algorithms	3090
<i>Gu Juanjuan, Tao Liang and Luo Bin</i>	
Optimal Configuration of Capacitors in Distribution Network Based on Niche Genetic Algorithm	3094
<i>Cheng Yuanlin and Li Maojun</i>	
A Self-optimal Fuzzy Logic Controller Based on Association Rules Mining to Ball Mill Pulverizing System*	3098
<i>Cao Hui, Si Gangquan, Zhang Yanbin and Ma Xikui</i>	
DSP Control Method of Single-phase Inverters for UPS Applications.....	3104
<i>Gao Kecun and Dai Yuxing</i>	
Stabilization of a Class of Nonlinear Switched Systems with Continuous-time and Discrete-time Subsystems.....	3107
<i>Bai Xiaoming, Li Huimin and Yang Xiaosong</i>	
Stability Analysis for Discrete-time Switched Systems Based on Multiple Lyapunov Functions.....	3109
<i>Li Huimin, Bai Xiaoming and Yang Xiaosong</i>	
Internet Bandwidth Model Based on Weighed Networks.....	3112
<i>Jiao Qing, Yang Hongyong and LuHaihang</i>	
Hybrid Adaptive Iterative Learning Control of Non-uniform Trajectory Tracking for Nonlinear Time-delay Systems*	3117
<i>Li Junmin, Li Xinmin and Xing Keyi</i>	
Application of Reduction Modifying in Hot Strip Continuous-Rolling Process Controlling.....	3122
<i>Wang Xiaolin and Yue Zongmin</i>	
Indirect Adaptive Neural Network Control Using Dynamic Surface Control.....	3127
<i>Zhang Tianping, Li Hongchun and Wang Qin</i>	

An Ultrasonic In-line Inspection System on Crude Oil Pipelines*	3132
<i>Dai Bo, Zhang Huiping, Sheng Sha, Dong Jinxi, Xie Zurong and Tang Dongliang</i>	
Model Predictive Control of a Powder Coating Curing Process: an Application of the MPC@CB Software	3137
<i>Abid Kamel, Dufour Pascal, Bombard Isabelle and Laurent Pierre</i>	
Robust Fuzzy Control of Nonlinear Delay Systems Subject to Impulsive Disturbance of Input	3142
<i>Jiang Haibo, Yu Jianjiang and Zhou Caigen</i>	
Time-dependent Decentralized Robust Control Based on LMIs of Large-scale Systems with Multiple State Delays	3147
<i>Deng Yanni, GuiWeihua, Xie Yongfang, Yang Chunhua and Jiang Zhaozui</i>	
One-class Bearings Fault Detection Model Based on Lyapunov Exponent Spectrum	3151
<i>Tao Xinmin, Du Baoxiang and Xu Yong</i>	
On Exponential Stability of Switched Systems with Delay: Lyapunov Function Approach	3157
<i>Liu Juan, QianWei and Fei Shumin</i>	
Robust Variable Structure Control for Free-floating Space Robot System with Dual-Arms in Joints Space	3161
<i>Chen Li and Tang Xiaoteng</i>	
Rolling Bearing Fault Diagnosis Based on Wavelet Packet and RBF Neural Network*	3166
<i>Sun Fang and Wei Zijie</i>	
The Maximal Wind-Energy Tracing Control of Variable-Speed Constant-Frequency Wind Generation System Based On Fuzzy Logic*	3171
<i>Xiao Yunqi, Xu Daping and Lv Yuegang</i>	
Personal Credit Scoring Model Based on SVM Optimized by GA	3176
<i>Jiang Minghui and Yuan Xuchuan</i>	
The Application of Improved Grey Multi-hierarchical Comprehensive Evaluation Method to the Growth Ability Evaluation of Technological Small and Medium Enterprises	3181
<i>Jing Hao and ZhaoXinan</i>	
Adaptive Control Schemes of Free-floating Dual-arm Space Robot System in Joint Space	3185
<i>Hong Zhaobin and Chen Li</i>	
Fuzzy Variable Structure Sliding-mode Control for Space Manipulator to Track Desired Trajectory in Joint Space*	3190
<i>Liang jie and Chen Li</i>	
Modeling and Implementation of Virtual Optical Lithography System Based on Volume Rendering *	3194
<i>Zhang Qicheng, Sun Guangyi, Zhao Xin, Wang Junwei, Jin Chun and Lu Guizhang</i>	
PCS andMIS Data Integration in Process Industry*	3198
<i>Jing Shaohong, Meng Qingjin and Yuan Zhugang</i>	
Real Time Estimating of the Ship Flexure	3202
<i>Sun Changyue and Deng Zhenglong</i>	

De-noising Processing of GPS Signal Based on Lifting Wavelet	3205
<i>Zhu Xijun, Zhao Jianlin and Li Zhimin</i>	
The Research of Coefficient Quantization Error in Digital Control System Based on Gray System Theory	3209
<i>Wang Liang, Wang Bingwen and Guo Yiping</i>	
Adaptive Neural Network Control with Unknown Dead-Zone and Gain Sign.....	3213
<i>Mei Jiandong, Zhang Tianping and Wang Qin</i>	
Moving Horizon State Estimation for Wireless Sensor Networks	3218
<i>Luo Ji'an and Chai Li</i>	
The Simulation Research of Control Arithmetic for Automobile ABS Based on MATLAB*	3223
<i>Yang Ying, Zhao Guangyao and Zhu Dongliang</i>	
A Petri Net Based Unified Modeling Method for Enterprise-Informatization System*	3228
<i>Wang Zhijian and Cai Zixing</i>	
Optimal Security Investment Under Tax and Transaction Cost*	3233
<i>Wan Shuping</i>	
Optimal Investment Consumption Model with Vasicek Interest Rate*	3238
<i>Dong Jiuying</i>	
Modeling and Fuzzy Control of Artery System Using Colored Hybrid Petri Nets*	3242
<i>Wang Zhengwu, Luo Dayong and Huang Zhongxiang</i>	
Real-time Digital Simulation of Control System with LabVIEW Simulation Interface Toolkit	3246
<i>Xiang Xuejun, Xia Ping, Yang Sheng and Liu Ping</i>	
R&D on Laser Scanning Manufacturing Control System*	3251
<i>Zhao Fangfang, Sun Huilai, Lin Shuzhong and Qi Xiangyang</i>	
A Strategy about Hoist Control and Fault Diagnosis Based on Neural Network*	3255
<i>Dai Yueming, Li Yunfang, Zhang Rui and Sheng Weiwei</i>	
On Location Selection for Contaminative Factory Based on Image Processing	3259
<i>Zhang Hang, Wang Yijun, Luo Dayong and Wang Xiao</i>	
A Semantics-Reconstruction Based Model-Driven Development Approach for Web Information Systems*	3263
<i>Hou Jinkui, Wan Jiancheng and Yu Yongtang</i>	
A Research on Generalized Predictive Control for Vehicle Yaw Rate*	3268
<i>Wu Yi Hu, Song Dan Dan, Hou Zhi Xiang and Yuan Xiang</i>	
On Rotary Machine's Multi-Class Fault Recognition Based on SVM	3272
<i>Gu Xiaojun, Yang Shixi and Qian Suxiang</i>	
On Coalition Generation Algorithm in MAS Control System.....	3276
<i>Cao Xiaohua and Ailisjia</i>	

Delay-dependent Robust Stability and H_{∞}- Control for Jump Linear System with Interval Time-varying Delay*	3280
<i>Guan Haiwa and Gao Lixin</i>	
Robust Adaptive Fuzzy Output Tracking Control of Uncertain Robot System Using Backstepping Design	3286
<i>Qiao Jihong, Dai Yaping, Liu Jinkun and Wang Hongyan</i>	
Robust H_{∞}- Filter Design for 2DFM Model	3292
<i>Meng Xiangyu, Gao Huijun and Chen Tongwen</i>	
Intelligent Control of Electromechanical Complex System	3297
<i>Yu Hong, Qian Xing, Guan and Shen Yuan</i>	
Multilayer Fuzzy Control of Intersections Community Based Traffic Forecast of Type-2 Fuzzy Logic*	3302
<i>Zhang Weibin and Liu Wenjiang</i>	
On Grid Distribution Control of Swarm Robots	3307
<i>Xiong Jufeng and Tan Guanzheng</i>	
The Modal Analysis of the Electronic Equipment Cabinet Structure	3311
<i>Liu Yanping and Zhang Liudou</i>	
Fuzzy Reliability Analysis of Disk Array Systems*	3315
<i>Jiang Minghua, Zhou Jingli and Hu Ming</i>	
Adaptive Nonlinearity Compensation for Power Amplifiers Based on Local-Modeling Approach	3319
<i>Ding Yuanning and Sano Akira</i>	
From UML-RT Models to a Graphical Design Environment of Real-time Multitasking	3324
<i>Liu Xiaoyan, Zhang Yunsheng, Schwarz Jean Jacques and Li Junchang</i>	
The Integrated Intelligent Control Framework of Subway Train Based-on Multi-agent*	3329
<i>Lu Fei, Song Mumin, Tian Guohui and Li Xiaolei</i>	
Grid Services Encapsulation of the Key Work Flow in a Type of Enterprise Information System	3333
<i>Hao Weidong and Yang Yang</i>	
One Kind of Stochastic Nonzero-sum Game Problem and BSDEs*	3338
<i>Wu Zhen and Yu Zhiyong</i>	
An Anti-Collision Algorithm Based on Subset-division and Dynamic Matching Mechanism for Intelligent Tags	3342
<i>Cao Xiaohua and Zhou Qiang</i>	
On Closed-loop Property of State-space Model Based Multi-horizon Predictive Control System	3346
<i>Sun Hexu, Liang Tao and Lei Zhaoming</i>	
Global Synchronization of Complex Lur'e Networks*	3351
<i>Li Zhongkui, Duan Zhisheng and Huang Lin</i>	

Stability Analysis and Design of Adaptive Observer Based on Speed Sensorless Induction Motor	3356
<i>Huang Zhiwu , Shan Yongteng, Gui Weihua and Nian Xiaohong</i>	
Efficient Parallel Control Scheme of Single Phase Inverters*	3361
<i>Liu Xiaozhu and Zhu Rongbo</i>	
On-line Reinforcement Learning Control for Urban Traffic Signals*	3366
<i>LIU Zhi-Yong and MA Feng Wei</i>	
Convergence Analysis in the Sense of Lebesgue-p Norm for Open-Closed-Loop Iterative Learning Control.....	3370
<i>Ruan Xiaoe, Chen Fengmin and Wang Jianguo</i>	
Prediction of Multivariate Chaotic Time Series Based on Optimized Phase Space Reconstruction	3374
<i>Wang Yijie and Han Min</i>	
Disturbance Decoupling for Linear Singular Systems with Time Delay	3379
<i>Feng Jun-e and Cui Peng</i>	
Robust Decentralized H_{∞}- Control for Uncertain Discrete Time-Delay Systems: LMI Approach.....	3384
<i>Gui Weihua, Chen Ning and Xie Yongfang</i>	
Adaptive Control of Closed Kinematics Chains Based on Singularity Perturbed Formulation	3389
<i>Wu Ailing, Wang Zhonghua and Zhou Zhiqun</i>	
Parametric Absolute Stability of Interconnected Lurie Systems Based on State Feedback	3394
<i>Chen Ning, Gui Weihua and Liu Biyu</i>	
A Automatic Charger with IUIa Characteristic Based on Fuzzy Control*.....	3399
<i>Gao Feiyan, Li Lanjun and Yang Wujiao</i>	
A Fast Road Image Segmentation Algorithm Based on Cellular Neural Networks*	3403
<i>Xu Guobao, Yin Yixin, Yin Lu, Hao Yanhuang and Zhou Meijuan</i>	
Study on ADRC Controller Design and Simulation of Rock Drill Robot Joint Hydraulic Drive System	3406
<i>Ruan jiuHong, Rong xuewen and Wu sanyou</i>	
Design of Tiltrotor Flight Control System Using Optical Control	3410
<i>Fan Yonghua and Yang Jun</i>	
Stability Analysis and State Feedback H^{∞}- Controller Designs for Discrete-time T-S Fuzzy Systems*	3415
<i>Chang Xiaoheng, Jing Yuanwei, Gao Xiying and Liu Xiaoping</i>	
Adaptive Neural Network Control of Free-Floating Space Manipulator System in Joint Space*	3419
<i>Guo Yishen and Chen Li</i>	
On Phase-shifting Algorithm to Eliminate Difference between Sampling Channels.....	3423
<i>Zhang Tao, Xue Pengqian and Jiang Jingping</i>	

Limited Memory Fusion of Multi-sensor Based on Support Degree	3428
<i>Zhang Peng, Zhang Jian ye , Sun Yong, Li Xue ren and Zhang Zonglin</i>	
Traffic Flow Forecasting Model of Signalized Intersections Based on Particle Swarm Optimization	3431
<i>Zhao Jianyu, Jia Lei, Chen Yuehui and Zhang Yong</i>	
Application of Artificial Immune Controller to Freeway Ramp Metering*	3434
<i>Liang Xinrong and Wei Yanxiu</i>	
Energy Decay Rate of the Plate Equation with Potential and Indefinite Damping	3438
<i>Wu Yingtao</i>	
Gaussian Transfer Function Based on Boundary*	3443
<i>Zhao Ying, Zhou Fangfang and Fan Xiaoping</i>	
Solving the Tramp Ship Dispatching Problem Using ACA	3448
<i>Zhao Gang and Chen Wenbing</i>	
Globally Asymptotically Stabilizing Control for a Class of Discrete-time Bilinear Systems	3453
<i>Qi Yiwen and Zhang Xian</i>	
Finger Tracking Control of Underwater Dexterous Hand Based on Fuzzy CMAC*	3456
<i>Wang Hua, Huang Xiaodiao and He Jin</i>	
A New Optimal Guidance Law.....	3460
<i>Zeng Xianwei, Fang Yangwang, Wu Youli, Wang Hongqiang and Liu Jiacong</i>	
Optimal and Self-tuning Information Fusion Filters for Systems with Unknown Stochastic System Bias	3464
<i>Bai Jinhua, Ma Jing and Sun Shuli</i>	
Application of Simulation to the Logistics System Planning of Enterprises	3469
<i>Zhao Gang and Zhang He</i>	
The New Variable-period Sampling Scheme for Networked Control Systems with Random Time Delay Based on BP Neural Network Prediction.....	3474
<i>Liu Jiangang, Liu Biyu, Zhang Ruifang and Li Meilan</i>	
Converse Lyapunov Theorem for Switched Stability of Switched Linear Systems*.....	3477
<i>Sun Zhendong</i>	
Multi-sensor Based Lane Detection and Object Tracking Method.....	3480
<i>Chen Ying and Wu Dinghui</i>	
Synchronization of Lur\squaree Networks with Time Delay*	3484
<i>Xu Shiyun, Yang Ying and Huang Lin</i>	
Information Audit System Based on Vector Space Model.....	3488
<i>YU Fe, XIA Xiaoyan, WU Ronghui and XU Cheng</i>	
Improved Performance of Permanent Magnet Synchronous Motor by Using Particle Swarm Optimization Techniques*	3492
<i>Elwer A. S and Wahsh S. A.</i>	

Intrusion Detection Based on Fuzzy Reasoning*	3497
<i>Yu fei, Shen Yue, Liao Guiping, Zhang Linfeng and Xu Cheng</i>	
On Wireless Local Area Networks Network Traffic	3502
<i>Rong Hong, Liang Yiming Wu Ronghui, Xu Cheng and Yu Fe</i>	
Adaptive Repetitive Learning Control for a Class of Nonlinear Time-varying Systems	3507
<i>Sun Yunping, Li Junmin and Zhang Guo</i>	
A Study of Dependence in the Patellar-Tendon-Reflex on Tapping Locations	3512
<i>Jiang Yan, Mamizuka Naotaka, Hori Noriyuki and Ochiai Naoyuki</i>	
Adaptive Control of Flexible Satellite	3516
<i>Thawar T. Arif</i>	
Fault Diagnosis of Hydro-Generator Unit via GA-Nonlinear Principal Component Analysis Neural Network*	3522
<i>Ji Qiaoling, Qi Weimin and Cai Weiyou</i>	
A Design Method of Sliding Mode Controller Based on Disturbance Observer*	3527
<i>Zhang Jian, SunHexu, Lei Zhaoming and Liang Tao</i>	
Performance Investigation and Improvement for the Uncalibrated Hand-Eye Coordination System	3531
<i>Su Jianbo</i>	
Optimal Nonlinear Dynamic Problem with Stochastic Impulse and Regular Control Laws*	3535
<i>Yang Ruicheng, Huang Shiying and Qin Xuezhi</i>	
Image Segmentation Method by Combining Watersheds and Ant Colony Clustering*	3540
<i>YangWeili, Guo Lei, Zhao Tianyun and Xiao Guchu</i>	
Reliable Tracking Control for a Class of Uncertain Systems*	3544
<i>Shen Tao, Wang Xiaohong and Jing Shaohong</i>	
Robust Stabilization And H_{∞}- Control for Uncertain Discrete-time Systems with Time-varying Delays	3547
<i>Tang Hongji, Han Yanwu and Zhang Xiaomei</i>	
Robust H_{∞}- Control For a Class of Discrete Switched Systems with Uncertainties and Delays	3552
<i>Han Yanwu and Tang Hongji</i>	
Multi-Agent System Based on Co-evolution Method and Its' Symbol Deduction Theory Model	3556
<i>Xue Hongtao and Shen Lincheng</i>	
A Further Study on Fuzzy Evidence Theory	3561
<i>Ma Xiaoping, Wang Yongdong and Fan Yang</i>	
Sequential Bound Constrained Minimization Technique for Large-scale Process System Optimization	3565
<i>Li Xiang and Liang Ximing</i>	
Research on DO Intelligent Control System in Fermentation	3569
<i>Zhu Xiaoliu, Jiang Dingguo, Zhang Yulin and Xu Baoguo</i>	

Robust Fuzzy Control for a class of Fuzzy Impulsive Systems with Parametric Uncertainties*	3572
<i>Zhou Caigen, Jiang Haibo, Wang Qi and Yu Jianjiang</i>	
Measurement for Water Content in Oil-Water Two Phase Flow Based on Novel Hybrid Intelligent Prediction Model	3577
<i>Zhang Dongzhi, Xia Bokai and Fu Tao</i>	
An Improved Fourth-order PDE for Noise Removal with Dissipation Reduction*	3582
<i>Ji Jing, Yang Kehu, Guo Jianjun and Yu Wensheng</i>	
Further Results on Robust Stability/Stabilization of Uncertain Linear Delayed Systems*	3585
<i>Zhang Xianming, Wu Min , She Jinhua and He Yong</i>	
On Simplified Model for Activated Sludge Wastewater Treatment Process and Simulation Based on Benchmark*	3590
<i>Yu Guangping, Yuan Mingzhe and Wang Hong</i>	
Stabilization of Networked Stochastic Systems Subject to Actuator Saturation*	3595
<i>Zhang Xiaomei, Tang Hongji and Lu Guoping</i>	
Multivariate Time Series Correlation Extract and Prediction Based on Cluster	3600
<i>Han Min and Li Decai</i>	
Passivity for Differential-algebraic Systems with Application to Excitation System	3605
<i>Zhang Xiuhua and Zhang Qingling</i>	
Quadratic Function Based Frequency Warping Method	3608
<i>Wang Honghai, Liu Gang and Guo Jun</i>	
Constraint-based Algorithm for Slab Sequencing Problem	3612
<i>Guo Dongfen and Ye Hongying</i>	
The Method of Soft Sensing for Water Bloom in River and Lakes Based on RBF Neural Network*	3617
<i>Liu Zaiwen, Cui Lifeng, Wang Xiaoyi and Lu Siying</i>	
Optimal Repetitive Control Based on Two-Dimensional Hybrid Model	3621
<i>Lan Yonghong, Wu Min snd She Jinhua</i>	
Reentry Telemetry Data Collection System Based on TMS320F206	3625
<i>Zheng Jian, Hua Yafeng and Zheng Wenda</i>	
A Continuous Gaussian Mixture HMM Based Acoustic Fault Diagnosis Scheme for Bearings	3628
<i>Lu Ruhua, Yang Shengyue and Fan Xiaoping</i>	
Light-weight Secured Model for Wireless Sensor Network Based on RBAC	3632
<i>Du Ruiying, Xu Mingdi, Li Bo and Zhang Huanguo</i>	
Measurement Fusion Kalman Filters for Descriptor Stochastic Systems	3636
<i>Shi Ying</i>	
Design of Clustering Adaptive Fuzzy Controller of Drum Boiler Superheat Temperature Based on Genetic Algorithm*	3640
<i>Li Xinbin, Dou Chunxia, Nian Xiaohong</i>	

Networked Control Systems with Different Control Inputs*	3644
<i>Xia Yuanqing, Chen Jie and Zhou Lin</i>	
Stability Analysis and State Predictor Design of the NCS with Data Packet Dropout.....	3649
<i>Liang Tao, Sun Hexu, Lin Tao and Lei Zhaoming</i>	
Statistical Characteristics of Stationary Processes in Cyclic Autocorrelation Based PSK Symbol Rate Estimation.....	3652
<i>Jin Yan and Ji Hongbing</i>	
Stabilizing Controllers Design of Discrete Linear Repetitive Processes with Time-Delay.....	3656
<i>Xu Jianming and Yu Li</i>	
Behaviors of Solutions for a Class of Linear Singular Switched Systems with Time Delay	3661
<i>Xie Xiangsheng and Hu Gang</i>	
Stabilization of Tree-Shaped Network of Timoshenko Beams	3665
<i>Han Zhongjie and Xu Genqi</i>	
Reachable relation of markings analysis using net unfolding	3671
<i>Wang Shouguang</i>	
A Two Level Non Linear Inverse Control Structure for Rotorcraft Trajectory Tracking.....	3676
<i>Mora-Camino Félix</i>	
Control of Proton Exchange Membrane Fuel Cell Based on Fuzzy Logic*	3681
<i>Zhan Yuedong, Zhu Jianguo, Guo Youguang and Jin Jianxun</i>	
Parameters Optimization of GPC Based on Swarm Algorithm*	3686
<i>Zhang Ping, Wang Youhua, Nie Xinpeng and Lv Dianli</i>	
The Application of Model PID or IMC-PID Advanced Process Control to Refinery and Petrochemical Plants*	3690
<i>Zhen Xinping, Li Quanshan, Wei Huan, Wang Wenxin, Jin Qibing and Pan Lideng</i>	
Analyzing Quantization Effect of Digital Control System by Cell Mapping Method	3695
<i>Wang Liang , Wang Bingwen and Guo Yiping</i>	
Delay-dependent Exponential Stability of Switched Systems with the Interval Time-varying Delay	3698
<i>Wang Dong and Wang Wei</i>	
Attitude Control Based on the Lie-group Structure of Unit Quaternions.....	3703
<i>Han Dapeng, Wei Qing and Li Zexiang</i>	
Selection of Suppliers based on VIKOR algorithm	3709
<i>Qi Jianxun, Zhang Zhiguang and Kong Feng</i>	
Generalized Rough Set Model Based on Set Pair Connection Degree.....	3712
<i>Xu Yi, Li Long shu and Li Xue jun</i>	
Set Membership State Estimation for Nonlinear Systems in the Presence of Bounded Disturbances*	3716
<i>He Qing</i>	

Improved Stabilization Method for Networked Control Systems*	3722
<i>Wu Min and He Yong</i>	
On Fault Diagnosis and Inspection Policy for Deteriorating System	3727
<i>Wang Liying, Fang Youtong, Su Liying and Liu Baoyou</i>	
Override and Model Predictive Control of Particle Size and Feed Rate in Grinding Process*	3732
<i>Chen Xisong, Zhai Junyong, Li Qi and Fei Shumin</i>	
Output Feedback Stabilizing Composited Lurie Systems Based on the Comparison Principle	3737
<i>Chen Duanlai</i>	
Diffusion Model Analysis on the CIM Application	3742
<i>Xue Chaogai, Gao Wei and Cao Haiwang</i>	
Energy Efficient Routing Protocol Based on Residual Energy and Energy Consumption Rate for Heterogeneous Wireless Sensor Networks	3747
<i>Li Xiaoya, Huang Daoping and Yang Jian</i>	
On Existence of a Class of Partial States Feedback Stabilizing Law for Single-Input-Single-Output Linear LTI Systems and Its Applications	3751
<i>Zhang Guoqi</i>	
Robust Stabilization for a Class of Discrete-Time Systems with Delays via Delta Operators Approach *	3757
<i>Qiu Jiqing, Yang Hongjiu, Xia Yuanqing, Zhang Jinhui and Gao Zhifeng</i>	
A Neural NetworkMethod for Quantity-quality Prediction in Lead-zinc Sintering Process	3762
<i>Wu Min and Xu Chenhua</i>	
Fast Modular Multivariable Nonlinear Model Predictive Controller*	3767
<i>Zheng Tao, WuGang, Ling Qing, ChenWei and He DeFeng</i>	
Iterative Learning Identi.cation and Control of Discrete Time-varying Systems*	3772
<i>Sun Mingxuan and He Xiongxiong</i>	
Synchronization of Networked Systems and Laplacian-Spectrum Modi.cation*	3777
<i>Wu Jianxin, Qin Huashu and Hong Yiguang</i>	
Optimal Population Size for Partheno-genetic Algorithm	3781
<i>He Yong</i>	
Game Theoretic Energy Balance Routing inWireless Sensor Networks	3783
<i>Zeng Jia, Mu Chundi and Hu Jianbin</i>	
Reduced Least Squares Support Vector Based on Kernel Partial Least Squares and Its Application Research	3788
<i>Song Haiying , Gui Weihua and Yang Chunhua</i>	
Water Level Control of Boiler Drum Using One IEC61131-3-Based DCS	3793
<i>Yang Qiliang, Xing Jianchun and Wang Ping</i>	
The Research and Application of Immune Feedback Control in the Load Control System of Tube Mill*	3797
<i>Yuan Guili, Liu Jizhen, Tan Wen and Liu Xiangjie</i>	

A New Method of Intelligent Controller Design and its Application in Ship Course Control.....	3801
<i>Ruan Juhong and Li Yibin</i>	
Fuzzy Control for a Class of Nonlinear System with Adaptive Fuzzy Supervisory Controller*	3807
<i>Shi Wuxi</i>	
Chaos in a Simple Hopfield Neural Network Satisfying Dale's Rule	3810
<i>Cao Hai and Li Qingdu</i>	
Dual-mode Structure Repetitive Control	3814
<i>Zhou Keliang, Wang Danwei, Zhang Bin and Wang Yigang</i>	
An Improved Population-Based Incremental Learning Algorithm	3819
<i>Zhang Qingbin, Wu Tihua and Liu Bo</i>	
Adaptive Tracking Control for Uncertain Robot Manipulator with Additive Disturbance.....	3823
<i>Xian Bin</i>	
On Position-occupying Optimization Based on Entropy Weight	3828
<i>Jia Yue, Song Baowei, Zhao Xiangtao and Liang Qingwei</i>	
Robust Kalman Filtering of Descriptor Systems Subject to Linear Fractional Uncertainties	3832
<i>Zhang Guanglei and Zhou Tong</i>	
Robot Integrated Navigation Based on Landmark Information Fusion in Home Environment	3837
<i>Wang Hongxia, Tian Guohui, Li Xiaolei and Bu Fanqian</i>	
Decentralized Robust H_∞- Output Feedback Control for Interconnected Large-Scale systems with Uncertainties.....	3841
<i>Jiang Zhaohui, Gui Weihua and Xie Yongfang</i>	
On High Performance PWM AC/DC Switching Converters.....	3846
<i>Gao Chao</i>	
Robust H_∞- Tracking Control of Output Probability Density Function.....	3850
<i>Luan Xiaoli and Liu Fei</i>	
Iterative Learning Control for Time-Delay Systems with Initial-Rectifying Action	3855
<i>Xia Jiaobo, He Xiongxiong and Sun Mingxuan</i>	
Non-fragile Delay-dependent ∞- H Control for Uncertain Systems.....	3860
<i>Xiao Shengping, WuMin and Zhang Xianming</i>	
On Neural Network Based on Variables Clustering and PCA for Prediction of Carbonation Precipitation Ratio.....	3865
<i>Wang Xiaoli, Yang Chunhua and Gui Weihua</i>	
Non-Fragile Fuzzy Guaranteed Cost Control of Uncertain Nonlinear Discrete-Time Systems*	3870
<i>Wang Junling, Shu Zhixing, Chen Liang and Wang Zhongxin</i>	
Design and Motion Analysis of Wheel-Legged Climbing Robot	3875
<i>Liu Wanli, Qu Xinghua and Yan Yonggang</i>	

Transformer Dissolved Gas Analysis Using Least Square Support Vector Machine and Bootstrap*	3880
<i>Tang Wenhu, Shintemirov Almas and Wu Q. H.</i>	
Separator-based Design of Robust Reliable Tacking Controller	3885
<i>Ouyang Gao-Xiang and Ni Mao-Lin</i>	
The Embedded Gateway Based on P2P Protocol*	3890
<i>Zhou Shumin, TangBin, Sun Yamin and Hu Lei</i>	
Multi-resolution Morphological Operators for Electrocardiogram Signal Analysis*	3894
<i>Ji Tianyao, Lu Zhen and Wu Q. H</i>	
Fuzzy Variable Structure Sliding-mode Control for Dual-arm Space Robot to Get Base and End-points Cooperative Motion*	3899
<i>Chen Zhihuang and Chen Li</i>	
An Improved PSNR Algorithm for Objective Video Quality Evaluation*	3904
<i>Yuan Fei, Huang Lianfen and Yao Yan</i>	
Design and Simulation of Fuel Cell Networked Predictive Fuzzy Control Systems*	3909
<i>Tong Shiwen and Liu Guoping</i>	
Unified Set, Intelligent Analysis and Extension Force Control of War Equation	3915
<i>Yang Sikun and He Zhongxiong</i>	
SPN Modeling for GDCS Task Scheduling	3920
<i>Yang Jian, Huang Daoping and Li Xiaoya</i>	
Design and Application for Cruising and Contesting Robot	3925
<i>Wang Mingshun and Shen Mouquan</i>	
RBF-ARX Modeling and Predictive Control Strategy Applied to a Liquid Level System*	3931
<i>Inoussa Garba, Peng Hui and Ren Lin</i>	
On Fuzzy Controller of Three-level DC/DC Inverter*	3936
<i>Pan Tinglong and Ji Zhicheng</i>	
On Line Parameter Identification of an Induction Motor Using Improved Particle Swarm Optimization	3939
<i>Chen Guangyi, Guo Wei and Huang Kaisheng</i>	
Globally Asymptotical Controllability of Nonlinear Systems*	3944
<i>Sun Yimin and Mei Shengwei</i>	
Design of ASVG Controller Based on Variable Structure Neural Network Fuzzy Control	3948
<i>Hong Zhen Nan, Sheng Yifa, Li Zulin and Yang Wujiao</i>	
Switching Frequency Optimize and Fuzzy Logic Based Direct Torque Control of Permanent Magnetic Synchronous Motor*	3952
<i>Sheng Yifa, Yu Shouyi, Hong Zhennan and Gao Jinsheng</i>	
Multi-model Self-learning Control for Turbine Valving Control	3958
<i>Yuan Xiaofang, Wang Yaonan and Wu Lianghong</i>	

Modeling and Simulation of Complex Maintenance System Dynamics *	3963
<i>Yin Xiaohu, Wen Xisen, Qian Yanling and Yang Yongmin</i>	
Analysis on Dynamics of Congestion Control Algorithm	3968
<i>Yang Hongyong, Yan Xiaoquan and Zhang Siying</i>	
Kalman Filtering in the Presence of State Space Equality Constraints*	3972
<i>Gupta Nachi</i>	
High Precision Robust Temperature Control for an Accelerometer Unit with Multi-operating Conditions*	3979
<i>Yu Yao and Zhong Yisheng</i>	
Robust State Feedback Stabilization of a Class of Switched Linear Systems with Uncertainties	3984
<i>Ji Xingmin</i>	
System Architecture Design of Supervisory Software for Networked Control Systems*	3987
<i>Zhu Youzhi, Zheng Geng and Liu Guoping</i>	
A Dynamic Parzen Window Approach Based on Error-entropy Minimization Algorithm for Supervised Training of Nonlinear Adaptive System *	3993
<i>Wang Zibin , Ren and Xuemei Liu Yan</i>	
DCS-Based Process Control Simulating System*	3998
<i>Li Lanjun, Yu Shouyi, Luo Wu and Gao Song</i>	
A CDMA Signal Receiver Based on LS-SVM*	4001
<i>Fan Xiaogang, Li Lei and Chen Xiao</i>	
Distributed Consensus Control for Second-Order Agents with Fixed Topology and Time-Delay*	4005
<i>Lin Peng, Jia Yingmin, Du Junping and Yuan Shiying</i>	
A Fault-tolerant Controller for Unknown Nonlinear System Based on Neural Networks*	4010
<i>WangWei, Li Jingjing, Zhang Qingzhen and Ren Zhang</i>	
A New Algorithm of Online Monitoring and Fault Prediction for the Battery Set State	4015
<i>Yin Chunjie, Sun Jiejun and Zhang Chenghui</i>	
Resilient Filtering for Uncertain Systems with Markov Jump Parameters	4020
<i>He Shuping and Liu Fei</i>	
Discrete Event Dynamic System Simulation Base on SystemC	4025
<i>Liu Ying, Liu Quanli and WangWei</i>	
Continuous Finite Time Control for Stewart Platform with Terminal Sliding Mode*	4030
<i>Zhao Dongya, Li Shaoyuan and Gao Feng</i>	
A Novel Observer-based Output Feedback Sliding Mode Control for Uncertain Discrete-time Systems*	4034
<i>Li Juntao, Jia Yingmin, Du Junping and Yu Fashan</i>	
Distributed Remote Control System of UAV Based on Man-in-loop Real-time Operation	4039
<i>Zhang Fengqing and Kong Quancun</i>	