Research on the Prediction of Breath Period Signal Based on RFN Network of Self-Adaptive Genetic Algorithm ........................................... 苏俊杰, 程秋海, 许华平 2323
A Hybrid Adaptive Wavelet Neural Network Control and Sliding Mode Control for Electro-hydraulic Servo System ........................................... WANG Hongyan, QIAO Ji-Hong, WANG Qinglin 2328
基于神经网络的电力系统谐波及间谐波高精度检测
High Precision Measurement for Power System Harmonics and Inter-Harmonics Based on Neural Networks ........................................... 王小华, 王莉, 王力 2334
Pork Freshness Pattern Recognition Based on SOM Neural Network ........................................... GUO Peiyuan, BI Song, YUAN Fang 2338
基于过程神经网络的污水处理软测量模型及算法研究
On Leaning Algorithm and Soft Sensor Model of Swage Disposal ........... 苏震, 聂晓峰, 刘载文, 王小艺 2342
基于 PCA 和改进 BP 神经网络的浮选精矿品位在线预测
Online Prediction of Concentrate Grade in Flotation Process Based on PCA and Improved BP Neural Networks ........................................... 王雅琳, 欧文军, 阳春华, 桂卫华 2347
基于 PSO-BP 神经网络的铝带坯晶粒度软测量建模及优化
Soft Sensor Modeling and Optimization of Aluminum Strip Grain Size Based on PSO-BP ........................................... 凌玉华, 杨欣荣, 李红艳, 纪春云, 廖力军 2354
基于自适应线性神经网络的磁悬浮飞轮控制
Control of Magnetic Suspended Flywheel Using Adaptive Linear Neuron ........... 陈小飞, 吉莉, 刘昆 2360
基于小波神经网络的电力谐波检测方法

A Power Harmonic Detection Method Based on Wavelet Neural Network

........................................................................................................... 劉海，邱娜，付光杰，劉祥模 2393

一类中立型变延时神经网络的指数稳定

Exponential Stability on a Class of Delayed Neural Networks ........................ 李巧萍，李文林 2402

一种新型开关变换器的控制器实现的研究

Research on the Implementation of a Novel Switching Converter’s Controller .......... 赵黎，李君 2421

基于遗传算法的优化 BP 神经网络算法与应用研究

Application of Optimizing BP Neural Networks Algorithm Based on Genetic Algorithm

...........................................................................................................丁世飞，苏春阳 2425

基于一种改进神经网络的数据手套手势识别

Data Glove Gesture Recognition Based on an Improved Neural Network .... 王新宇，孙冠，韩冬，张姍 2434

网络化神经网络系统的同步控制

Synchronization Control of Networked Neural Network Systems .......................... 张益军 2447

The Projection Adaptive Natural Gradient Online Algorithm for SVM ..... SUN Zonghai, SHI Buhai 2453

On Post-Evaluation of Power Plant Construction Project Based on Improved Back Propagation Neural Network .......................... NIU Dongxiao, LI Xin, ZHANG Kun, LIU Yi Min 2458

网络化神经网络系统的同步控制

Synchronization Control of Networked Neural Network Systems .......................... 张益军 2447

The Projection Adaptive Natural Gradient Online Algorithm for SVM ..... SUN Zonghai, SHI Buhai 2453

On Post-Evaluation of Power Plant Construction Project Based on Improved Back Propagation Neural Network .......................... NIU Dongxiao, LI Xin, ZHANG Kun, LIU Yi Min 2458

Backpropagation Neural Networks Training for Single Trial EEG Classification

........................................................................................................... TURNIP Arjon, HONG Keum-Shik, GE Shuzhi Sam 2462
Decentralized Fuzzy $H_2$ Filtering for Discrete Time Fuzzy Large-Scale Systems

ZHONG Hua, ZHANG Hongbin 2468

Adaptive Fuzzy Control with H-inf Performance for Microturbine ............................. 阮士杰, 王旭 2472

On Fuzzy Comprehensive Evaluation Method and Strategy for Aviation Passenger Satisfaction

适应 fuzzy 控制的微小燃机自适应模糊控制

基于 H-inf 性能的微型燃机自适应模糊控制

航空旅客满意度模糊评价方法与策略研究

Sufficient Condition of Universal Approximation of Fuzzy Controllers With Generalized Linear Membership Function .......................... HUANG Weihua, FANG Kangling, ZHANG Zheng 2483

第三者的闭环供应链协调问题研究

The Coordination of Closed-loop Supply Chain with Third Party ............................ 陈浩, 孙作, 王学梅 2488

基于损耗模型和模糊搜索的异步电机最优效率控制方法

A Control Strategy for the Optimal Efficiency of Induction Motor Based on Loss Model and Fuzzy Search

First-Order Linear Linguistic Control System and Its Stability .......................... ZHAO Liang 2497

Direct Adaptive Fuzzy Decentralized Control for Reconfigurable Modular Manipulators

On the Handling of One-side-Triangle-Fuzzy-Number-Valued Attributes in Decision Tree Generation

LI Hua, SUN Haizhen, LI Jingyan 2509

Optimal Design of Neuro-Fuzzy Controller Based on Ant Colony Algorithm ........... ZHAO BaoJiang 2513

Incremental Clustering for Categorical Data Using Clustering Ensemble

LI Taoying, CHEN Yan, QU Lili, MU Xiangwei 2519

Stabilization for T-S Fuzzy Systems with Quantized and Delayed Feedback

ZHAO Xiaomei, CHEN Yan, GAO Yanbo, LU Guoping 2525

Intelligent Sliding Mode Control of Nonlinear Systems Based on Cloud Models .......... 孙 displeased, 王永玉 2531

Asymptotic Suppression of a Class of Discrete-time Hyperchaotic Systems Based on Fuzzy Control Method .......................... WU Zhidan, PAN Ying, DENG Wei, SONG Fusheng 2536

Discussion of Approximation Properties of Minimum Inference Fuzzy System ........... CHEN Gang 2540

Adaptive Fuzzy Logic Control for a Class of Input Delay Nonlinear Systems

ZHU Qing, ZHANG Tianping, FEI Shumin, YAO Xiang 2547

Optimal Pricing for a Manufactured and a Remanufactured Products in a Fuzzy Environment

ZHAO Jing, WEI Jie, CHEN Bowen 2553

A Direct PI Adaptive Fuzzy Controller Design with State Observer ........................... 郑亚琴, 刘艳军, 李东辉 2559

Indirect Adaptive Fuzzy Control for a Class of MIMO Nonlinear Systems with Unknown Control Direction

SHI Wuxi 2565

Multivariable Decoupling Fuzzy-Smith Predictive Control of Cement Rotary Kiln Temperature System

李冬生, 方一鸣, 李建雄, 邓立广 2570

Generalized H2 Control for Delayed Discrete-Time Fuzzy Systems via A Delay-Dependent Approach

ZHAO Baoyong, XU Shengyuan, CHU Yuming, LI Yongmin 2575
一种改进的粒子滤波跟踪算法
An Improved Particle Filter Tracking Algorithm ........................................... 高丙坤, 李文超, 王帅 2581
Risk Analysis of Butterfly Arch Continuous Girder Bridge's V-shaped Pier During the Construction 
Process on the Basis of AHP-GCA Method .................................................. WANG Lifeng, SUN Yong 2585

钛坯天然气加热炉温度智能控制系统
An Intelligent Temperature Control System for Nature Gas Reheating Furnace of Titanium

Adaptive Fuzzy Control for a Class of Nonlinear Time-delay Systems with Unknown Control Direction
LI Xiaoqiang, WANG Dan, YAO Yubin, LAN Weiyao, PENG Zhouhua, SUN Gang 2593

模拟柔性模和控制应用在协调控制系统的研究
Experimental Study on Application of Analog Flexible Fuzzy Control to Coordinated Control System

A New Approach to Determine the True Domain of Fuzzy Inference Sentence
.............................. ZHANG Shuqing, WANG Xiao, ZHANG Xin, YU Fusheng 2598

Adaptive Fuzzy H ∞ Control for a Class of Nonlinear Systems with Sliding Performance
.............................. DENG Wei, ZHANG Bing, QIUYE Sun, ZHAO Yan 2607

基于自逆电机的双层阻尼控制系统前馈-反馈控制研究
Study on Fuzzy Feedforward-feedback Control of Two-layer Vibration Isolation System Based on Voice 
Coil Motor ................................................................. 贾鹏霄, 刘文定, 阎江明 2618
Delay-Dependent Robust Guaranteed Cost Control for Uncertain Neutral T-S Fuzzy Systems with Dis-
tributed Delays ................................................................. LI Yongmin, CHU Yuming, XU Shengyuan, ZHAO Zhenjiang 2624

基于分数Lyapunov泛函的不确定模糊时滞系统H-inf控制
H-inf Control of Uncertain Fuzzy System with Delay Based on Piecewise Lyapunov Functional

Learning Algorithm of Decision Tree Generation for Continuous-valued Attribute
................................................................. LI Hua, HU Xiao Juan, SUN Haizhen 2642

一种排水管道机器人姿态的模糊控制研究
Attitude Control of a Robot in Sewer Pipe Based on Fuzzy Algorithm ................... 杨清梅, 迟晓强 2645

H∞ Controller Design for Discrete Fuzzy System Using Nonquadratic Lyapunov Functions
................................................................. PAN Juntao, FEI Shumin, WANG Renming, XUE Mingxiang 2649

基于分数Lyapunov泛函的不确定模糊时滞系统H-inf控制
H-inf Control of Uncertain Fuzzy System with Delay Based on Piecewise Lyapunov Functional

模式识别与信号处理 (Pattern Recognition and Signal Processing)

基于数学形态学分割方法的cDNA微阵列图像处理
cDNA Microarray Image Processing Using Mathematical Morphological Segmentation ....... 翁桂荣 2660
Image Quality Assessment Based on the Contourlet Transform
................................................................. LI Junfeng, DAI Wenzhan, PAN Haipeng, WANG Huijiao 2665

基于灰色系统理论的图像去噪算法研究
On Image Denoising Algorithm Based on the Grey System Theory
................................................................. 李俊峰, 戴文战, 潘海鹏, 高金凤 2671
Concrete CT Image Segmentation Method Based on Markov Random Field
                        ZHAO Liang, LI Chang-Hua, DANG Fan, CHEN Deng-feng, XU Sheng-Jun 2677
One Kind of New Image Coding Algorithm Design and Realization
                        WANG Dongmei, WANG Xiu-Fang, LU Jing-Yi, PU Xiao-Wei 2681
基于发音词典自适应的纳西语口语汉语普通话语音识别
Naxi-Accented Mandarin Speech Recognition Based on Pronunciation Dictionary Adaptation
                        陈江, 杨鉴, 徐永华 2685
Image Segmentation Algorithm Based on Wavelet Mutation Inertia Adaptive Particle Swarm Optimization
                        ZHANG Wei, ZHANG Yu-zhu 2690
Robust Face Recognition by Fusion Local Singular Value Feature and Deformable Model
                        LIAO Haibin, CHEN Qing-Hu, WANG Hong-Yong, ZHAO Qianqian 2694
基于改进小波变换的音频水印算法
Digital Audio Watermark Algorithm Based on Modified-DWT ............................ 李环, 华宇宁, 冯敏 2700
The Prediction of Rice Leaf's Nitrogen Content Based on Leaf Spectrum on the Heading Stage
                        SUN Jun, LU Bing, WU Xiaohong 2704
基于子空间的人体运动类型分段
Segmentation for Human Motion Type Based on Subspace ............................. 朱红丽, 郑天琪, 向坚 2708
基于非下采样 Contourlet 变换和 SVM 的纹理图像分割算法
Texture Image Segmentation Algorithm Based on Nonsubsampled Contourlet Transform and SVM
                        王海丰, 李壮, 任洪娥, 赵鹏 2712
一种基于 SIFT 的 MeanShift — 粒子滤波融合跟踪算法
A MeanShift-Particle Fusion Tracking Algorithm Based on SIFT .......................... 周凯, 范瑞霞, 李位星 2717
B-Snake 模型在虚拟内窥镜路径规划中的应用
B-Snake Model for Centerline Planning of Virtual Endoscopy ........................ 高向军, 刘保罗, 徐瑞朝 2721
Non-native Speaker Identity Verification Based on ICA .......................... WEI Hong, YANG Jian, PU Yuanyuan 2725
Feature Recognition for Underwater Weld Images .............................. LIU Suyi, ZHANG Hua, JIA Jianping, LI Bing 2729
The Fresh Classification of Pork Detection Based on Multi-Data Fusion
                        GUO Peiyuan, BI Song, CHEN Tianhua, XU Guannan, LIU Xing 2735
Self-tuning Information Fusion Wiener Filter for ARMA Signals and Its Convergence
                        LIU Jinfang, DENG Zi-Li 2739
基于图像分解的鲁棒光流计算
Robust Optic Flow Algorithm Based on Image Decomposition .......................... 方宇强, 戴斌 2745
Rapid Target Recognition and Tracking under Large Scale Variation Using Semi-Naive Bayesian
                        SUN Kang, WANG Bo, HAO Zhihui 2750
A High-level Image Sequence Fusion Algorithm for Human Detection
                        WANG Meng, DAI Yaping, LIU Yan 2755
基于平滑滤波与最小二乘支持向量机的人脸图像识别研究
Face Images Recognition Research Based on Smooth Filter and Support Vector Machine
                        宋召青, 郑苏, 李志成 2760
光纤陀螺信号降噪的无监督自适应滤波方法
Denoising of Fiber Optic Gyroscope Signal by Unsupervised Adaptive Filtering
                        马韬, 陈杰, 陈文颜, 张博 2765
Fuzzy Clustering of Operator Functional States in Human-machine Systems

Energy Feature Extraction for Sealing Oil Signal of Pipeline with Wavelet Package Transform

An Improved Fuzzy C-means Algorithm Based on Gray-scale Histogram for Underwater Image Segmentation

Application of an Improved Independent Component Analysis to Artifacts Removal from EEG

Application of Digital Signal Processor in EMG-based Human Machine Interface

Face Recognition Based on Log-Gabor Filter Binary Transformation

Application of Support Vector Machines in Detection Technology Based on Near Infrared Spectroscopy

A Separation Method of One-Channel Heart Voice Signal

TAO Yewei, ZHANG Zhong, ZHANG Hui-xiang, SUN Xia

Reference Map Generation Techniques for Scene Matching Guidance: an Overview

Identification of Test Modal Parameter of Nuclear Power Plant Boiling Water Reactor Based on Time Domain Method

Measuring Intersection Queue Length with Video

A Viterbi Data Association Algorithm Based on Adaptive Clutter Density Model

A New Criterion on Wavelet Coefficient-based Fusion

Research on Ranking Support Vector Machine and Prospects

Robust Feature Extracting of Speech Signal Based on Wavelet Packet Transform

WLS Design of Complex FIR Filters with Prescribed Phase Error and Magnitude Error

Recognition of Corners of Planar Checkboard Pattern Image

DING Shifei, LIU Xiaoliang, ZHANG Liwen

WANG Zhongshi, WANG Zhongge, WU Yingbin
一种基于临近点集数据融合的 AFM 动态成像方法
An Improved AFM Dynamic Imaging Method Based on Data Fusion of Neighboring Points Set

基于多特征信息自适应融合的视频目标跟踪算法
Target Tracking with Particle Filter Based on Multiple Cues Fusion

A Novel Segmentation Algorithm Based on Bare Bones Particle Swarm Optimization and Wavelet Mutation

Nonlinear Manifold Learning Based Fault Classification Method

Time-frequency Analysis and Fault Diagnosis of Air-lift Compressor for an Offshore Oil and Gas Platform

Products Recommend Algorithm Based on Customer Preference Model and Affective Computing

基于灰度模板匹配的仪表字符识别研究

一种基于序贯检测机制的运动目标跟踪算法
A Moving Object Tracking Method Based on Sequential Detection Scheme

Assessment of Statistical Models for Clutter and Target in SAR Images

An Image Mosaicing Approach for Video Sequences Based on Space-Time Manifolds

一种基于 N 阶最短近邻自适应确定聚类数量的方法
A Novel Method for Adaptive Determination Clusters Number Based on N-order Nearest Neighbor

Machine Vision Based Flotation Froth Mobility Analysis

Design of Automatic Tracking System on DM643 and Research of Image Processing Algorithm

多通道振动信号智能处理系统研究

一种基于 NMI 特征匹配及位置预测的目标自动跟踪及其 DSP 实现
Automatic Target Tracking Algorithm Based on NMI Feature Matching with Position Prediction and Its DSP Realization

高分辨率推扫式成像光谱仪的设计及其野外应用
The Design and Field Application of High-resolution Pushbroom Imaging Spectrometer

一种寻找星图光斑中心的高精度算法
High-Precision Algorithm for Centroid Location of Star Pattern Recognition