

Table of Contents

Committees

Preface

Design and Implement of Attitude Sensor for High-Speed-Spin Vehicle L.F. Wu, Z. Peng, Q.W. Yan, W. Zhang and F.X. Zhang	1
The Research of Micromachined Gas Pendulum Accelerometer's Structure Q.F. Zhao, F.X. Zhang, W. Zhang and P. Yue	7
Research on Signal Demodulation Method of Silicon Micro-Machined Gyroscope Q.W. Yan, F.X. Zhang, L.F. Wu and C.X. Sun	11
Analyses on Output Signal of Silicon Micro-Machined Gyroscope C.X. Sun, Y.M. Tian, Q.W. Yan, L.W. SUN and F.X. Zhang	17
Study on the Objectives of SCM in E-Commerce Based on ERP Application D.W. Liu and X.B. Ye	22
Study on Models of Planning and Scheduling in IT Manufacturing Processes D.W. Liu and H.B. Liu	28
Research on Vibration and Shock-Proof Technology of Silicon Micro-Machined Gyroscope F.X. Zhang, Q.W. Yan and L.F. Wu	34
Green Manufacturing-Oriented Digital System and Operation Technologies for Manufacturing Enterprises Q.F. Wang	40
A Rapid Fusion Algorithm of Infrared and the Visible Images Based on Directionlet Transform X. Li, Y.S. He, X. Zhan and F.Y. Liu	45
Modified Raptor Code for Distributed Storage Systems Z. Chen and X.J. Wang	52
Design on Control System of Cutting Machine for Chip Component Based on Vision Positioning Y.F. Liu, S. Cheng and L.Q. Chen	58
An Effective Chaotic Cultural-Based Particle Swarm Optimization for Constrained Engineering Design Problems Y.Q. Zhou and L. Liu	64
Research on Setting Parameter of Deblocking Filter for H.264 J.T. Wang, Y.Q. Lu, C. Qiu, P.D. Gao, J. Fu and W.H. Yu	70
The Mixed Fast Multipole Boundary Element Method for Solving Strip Cold Rolling Process H.L. Gui and Q.X. Huang	76
Temperature Identification of Electrical Heating Furnace Based on Elman Network Combined with Improved PSO S. Ding, Y. Yin, W. Huang, J. Dong and X.M. Ma	82
Wholesale Price for Supply Chain Coordination via Conditional Value-at-Risk Minimization C.X. Wang	88
Hierarchy Evolutionary Searching Algorithm for DNA Encoding Sequence L. Ye, J. Chen and Y.K. Xing	94
A Trust Model Based on Evidence Theory for P2P Systems L.D. Huang, G. Xue, X.L. He and H.L. Zhuang	99
The Application of the Analytical Hierarchy Process in Performance Evaluation in Commercial Bank J.T. Wang and Y. Qiu	105
Database Visiting Method and Application in Electronic Power Monitor System by Using LabSQL in Virtual Instrument LabVIEW M.X. Miao	110
A Change Scheduling Algorithm Based on Risk Management Z.Q. Zhan and D. Wang	116

Diagonal Maximum Scatter Difference Analysis and its Application to Face Recognition J.G. Wang and T.J. Zhang	123
Design and Realization of Automatic Weather Station Based on Embedded Linux Operating System Z.Q. Niu, B.Q. Wang and X.Q. Zhen	129
The Design and Applied Research of Robot Performance Testing Platform Y. Chai and Y.C. Li	135
ACO Trained ANN-Based Intelligent Fault Diagnosis H.W. Shi	141
Improved Support Vector Machine and its Application Z.W. Huang, J.Z. Zhou, L.X. Song and Y.C. Zhang	147
The Research on Grid Resource Management Based on WSDM W.L. Feng and W.C. Du	155
Parallel Line-Up Competition Algorithm for Continuous Optimization B. Shi, L.X. Yan and H. Xie	161
Research on Framework of Fourth Party Logistics Information Platform Based on Web Services J. Yu	167
Complexity Research on B Algorithm A.L. Han	173
A Method of Web Information Automatic Extraction Based on XML J.H. Gu, J. Song, N. Zhang and Y.L. Liu	178
Exact Solutions for Coupled mKdV Equations by a New Symbolic Computation Method B.Q. Li and Y.L. Ma	184
Extension and Unascertained Measure for Evaluation of Information Systems Security H.W. Shi and Y. Deng	190
A Comprehensive Analysis Method Based on Fuzzy Hierarchy for the Safety Assessment of Overhead Traveling Crane G.N. Xu and F. Jiang	196
G^1/C^1 Matching of Spline Curves X.M. Liu, W.X. Xu, J. Xu and Y. Guan	202
Segmentation of Color Textures Using K-Means Cluster Based Wavelet Image Fusion Z.K. Huang, S.Q. Wang and L.Y. Hou	209
Experiment of H_∞ Driving Control System for Electric Vehicle C.W. Zhang	215
Web Service Automatic Composition Based on Extended Token of Petri Net B. Yang and S.L. Song	220
Specialized Evolutionary Algorithm for Production Scheduling in Complex Correlated Manufacturing System C. Chen and Y.B. Luo	226
A Reference Model of Unified Communication Based on SIP/SIMPLE N.P. Zhang and J.S. Jiang	232
Adaptive Predictive Based on Equal-Dimension and New Information for the Hydraulic Mechanism of Wave Motion Compensating Platform Z.G. Zeng and G.H. Chen	236
Study on Improved Ant Colony Algorithm in Dynamic Multi-Paths Route Guidance System J.H. Gu, E.H. Liu, Y.L. Liu and N. Zhang	243
A Secure Wireless Sensor Network Framework for Manufacturing Monitoring Y.X. Mao and W.Y. Tian	249
Research and Development of Open Numerical Control System Y.H. Peng, H.Q. Bai and N. He	254
A RFID Anti-Collision Algorithm Based on Cutting away Branches and its Analyses S.S. Yu, Y. Peng and G. Liu	259
Research on the Secure Multi-Party Computation of some Linear Algebra Problems Q. Zheng, S.S. Luo and Y. Xin	265
Research on Optimal Power Allocation with SDF and Distributed STBC in Multi-Hop Cooperative MIMO Network X.R. Xu, B.Y. Zheng and J.W. Zhang	271

On Inversion Algorithms over Optimal Extension Fields Using Lagrange Representation M.L. Qi, L. Zhong and Q.P. Guo	277
Genetic Algorithm for Production Order Picking Schedule in an AGV-Based FMS D.Q. Chen	283
Based on Grid of Reconfigurable Manufacturing Execution System J.B. Qu, S. Liu and H.T. Liang	288
Dynamic Co-Simulation of Fracture Splitting Machine for Connecting Rods L.M. Zheng, S.H. Yang and W.M. Jin	294
The Study on the Construction of Enterprise Strategic Information System J. Yang	299
A Model Driver Framework for System Analysis K. Wu and J. Luo	304
Development of Linkage-Cam Reducers and Series Design H.L. Hou, Y.Q. Zhao, G.H. Zhang and B.M. Wang	309
Analysis and Design Solution of the Electric Enterprise Application Integration Based on Service Oriented Architecture J.X. Long	313
Application of Fuzzy Cluster Analysis in the Judgment of the Aluminum Electrolyzer's Status L.Q. Hu and M.S. Lin	319
Toward Efficient Multiplication Algorithms over Finite Fields in Lagrange Representation M.L. Qi, L. Zhong and Q.P. Guo	323
Grain Emergency Transport Model on Unascertained Number Y.J. Gao, G.L. Liu and D. Li	328
The Compare of Microbial Electronic Tongue Data Based on Direct and Two-Stage Processing H. Men, J.P. Sun, J. Zhang, Y.M. Guo and Z.M. Xu	331
Apply Automation Testing in Enterprises F. Qi and Y. Ding	337
The Analysis on the Parasitic Capacitors Effect of the Fully Differential Architecture of SAR ADC L. Sun, Q.Y. Dai, C.C. Lee and G.S. Qiao	342
The Multi-Dependent Hurst Exponent in Traffic Time Series K.Q. Dong, P.J. Shang and H. Zhang	346
Numerical Analysis of Coupled Lateral and Torsional Vibrations of a Vertical Unbalanced Rotor X.L. An, D.X. Jiang, M.H. Zhao and C. Liu	352
The Influence of Damping Coefficient on Vibration Characteristic of a Rub-Impact Rotor under Axial Thrust X.L. An, D.X. Jiang, C. Liu and M.H. Zhao	358
Application on Network Traffic Prediction Based on Least Squares Support Vector Machine Y.Z. Ren, K.W. Xia, Y. Wang and J. Shi	364
A Workflow-Serialized Parallel Spatial IDW Interpolation on Windows HPC Y.J. Xia, M.Z. Zhu and X.M. Shi	370
Contour Extraction of Human with Single-Pixel Width H. Zhang, Z.J. Liu and H.Y. Zhao	376
Describing and Simulating 3D Model of Garment by Scanning Technology X.G. Wang, V. Kuzmichev, Y. Luo and Y. Li	382
A Kernel Density Estimation Based Interestingness Measure for Association Rule Mining Z.F. Hao, R.C. Cai, T. Wu and Y.Y. Zhou	389
Research on Chinese Character Recognition Using Bag of Words J.P. Gui, Y. Zhou, X.D. Lin, K. Chen and H.B. Guan	395
On the Stability of Refined L-Curvature under Rotation Transformations B.J. Zhong	401
The Theoretical Research on the Third Planet Gear Flowmeter for Hydraulic System J. Zhang	407

State Prediction of Huge Gas Turbine Machine Based on Multi-Level Recursive Method and Experimental Study	
J.L. Xu, J. Ma, X.L. Xu and S.H. Wang	414
An Interactive Layout and Simulation System of Virtual Factory	
J.H. Ding, Y.G. Wang and K. Chen	421
Queue-Length Analysis of Continuous-Time Polling System with Vacations Using M-Gated Services	
H.W. Ding, D.F. Zhao and Y.F. Zhao	427
An Model Based on Group Decision-Making Method and Job Value Evaluation	
C.G. Li and F. Dai	432
Automatic License Plate Recognition System	
B. Li, Z.Y. Zeng, H.L. Dong and X.M. Zeng	438
Research on Image Super-Resolution Reconstruction Based on BPNN and RBFNN	
F.Z. Zhu, J.Z. Li, B. Zhu, D.D. Li and D.D. Ma	445
A Divided-and-Conquer Algorithm Based on Guided Selection for Two-View Motion Segmentation	
H.J. Wang, K. Chen, Y. Zhou, Y. Zhang and H.B. Guan	452
An Efficient Trustworthy Protected-Ring Model for UEFI Firmware	
Z.L. Zhou, N. Zhang, X.R. Zhang and Z. Yang	459
General Structure of the Semiconductor Production Scheduling Model	
K. Ye, F. Qiao and Y.M. Ma	465
Research on an UCON Extension Model Applicable to Industrial Control	
Z.T. Jiang and J.F. He	470
Study of Constant Speed Grinding and Grinding Machine Improved	
Y.Q. Zhao, H.L. Hou and Z.F. Li	477
Study on Velocity Constrained Particle Filters in Passive Tracking Applications	
J. Kang, W. Kang and G.S. Rui	482
3D Reconstruction Based on Hexagonal Pixel's Dense Stereo Matching	
Z.T. Jiang, Q.H. Xiao and L.H. Zhu	487
Research of the Measurement System of Liquid Displacement Based on Angular Tracking	
H.Q. Tao and S.B. Ma	493
Exploring the Impact of Quality Management Practices on Product Quality from the Perspective of Learning	
W. Xiong and Q.X. Zhang	499
Fast Public Key Cryptosystem Based Blind Signature Scheme	
X.W. Zhou	505
Bridge Crane Load Spectrum Distribution Good-of-Fit Testing	
A.H. Wang, G.N. Xu, Y.S. Gao and P. Yang	512
Further Study on System Optimization in Proxy Signature	
X.W. Zhou	518
The ANN Method of Obtaining Fatigue Load Spectrum of Overhead Traveling Crane	
G.N. Xu, X.N. Fan, F.Y. Lu and R.G. Yang	525
Optimized Electronic Cash Scheme with Fast Public Key Algorithm	
X.W. Zhou	532
Scheme Optimization in Key Management with Cryptograph Methods	
X.W. Zhou	539
Improved Signcryption Schemes Based on Hyper-Elliptic Curves Cryptosystem	
X.W. Zhou	546
Extracting Data Records Based on Global Schema	
K.R. Chen, W.L. Zuo, F. Zhang and F.L. He	553
Research on Constructing a Multi-Label Image Annotation and Retrieval System	
Y.L. Tian, R. Li, J.J. Lu, Y.F. Zhang and Z.N. Lu	559
A Cooperative Location Method Based on Chan and Taylor Algorithms	
P. Wang and N. Zhang	565
Analysis of the Airflow Tilt Sensor's Mechanism by Three-Dimensional Finite Element Method	
Y.J. Li and L.H. Piao	570

Analysis on Mechanism of Effect of Acceleration Sensor by Three-Dimensional Finite Element Method	
Y.J. Li and L.H. Piao	575
Motion Estimation Algorithm Based on the Region of Interest	
F. Yang, J. Li, Z.W. Zhang and G.F. Pan	581
Embedding Parameters Based Distinguish between Normal and Epileptic EEG Using Artificial Neural Network	
Y. Yuan	588
An Automatic Measuring Research on Voltmeter with a Cylindrical Panel	
X.F. Zhang, Y. Liu and B. Wan	594
Design and Realization of Fault Injection Based on CTCS-3 Simulation	
C.X. Gou, B.G. Cai, T. Tang and S.G. Wei	599
A Research Combining Spatial Filter with Autoregressive Model for EEG Feature Extraction	
L. Liu and Q.G. Wei	605
A Novel Quantum Neural Network Model with Variable Selection for Short Term Load Forecasting	
W. Sun, Y.J. He and M. Meng	612
Vertical Sampling Based on Testing Time via ADC	
X.Q. Zhen and Z.D. Yao	618
Graphics-Matching Algorithm Study and Packing Control with NIGA in the Hull Construction Automatic Packing System	
Y. Mei, L.S. Zhu and J.W. Ye	624
³¹ P MRS Data Analysis of Liver Cancer Based on Neural Networks	
Q. Liu, N. Wang, Y.H. Liu, S.Q. Wang, J.Y. Cheng, D.Y. Yu and J. Chen	630
Study on the Evaluation Model of Image Definition	
G.J. Chen, M.F. Zhu, W.Q. Wang and Y.N. Li	636
Test Method for Crosstalk Faults in VLSI Circuits Based on Multiple-Valued Decision Diagrams	
Z.L. Pan and L. Chen	641
Test Generation for Glitch Faults of Crosstalk Effects in Digital Circuits Based on Genetic Algorithm with Niche	
Z.L. Pan and L. Chen	647
An Optimized LCP Table Based Algorithm for Frequent String Mining	
Z.X. Guo, Z.X. Ma, Y.S. Xu and L. Liu	653
Forward Displacement Analysis of Non-Plane Two Coupled Degree Nine-Link Barranov Truss Based on Hyper-Chaotic Newton Downhill Method	
Y.X. Luo and Q.Y. Liu	659
The Assessment Method of Supply Chain Risks Based on Vague Sets	
A.W. Zhao and H.J. Guan	665
The Research of Two-Dimensional Probability Hyper-Chaotic Mapping Newton Iterative Method to Mechanism Synthesis	
Y.X. Luo and B. Zeng	670
The Research of Equal Probability Chaos Sequence Newton Iterative Methods and its Application to Mechanism Synthesis	
Y.X. Luo, X.Y. Che and B. Zeng	676
Recognizing Polygons under Affine Transformation Based on Principle of Homograph	
G.M. Zhang, J. Chu and J. Miao	682
A PCA Based Fault Detection and Isolation Method for Train Locating System	
J. Liu, B.G. Cai, T. Tang and J. Wang	688
Optimization of Sensor Array Data with Various Pattern Recognition Techniques	
H. Men, Z.N. Ge, H.Y. Liu, R.X. Wen and Z.M. Xu	694
Research on Moving Target Monitoring Collaborative Simulation Technology Based on Multi-Channel	
T. Yuan, S.G. Wei and Z.Z. Lu	700
Study on Public Verifiability in Signcryption Scheme	
X.W. Zhou	706

Research on Community Informationization Development Model in City Community Construction	713
J. Yang and X.F. Sun	
Research on the Problems and Strategies for the Community Informationization Construction in the Process of Digital City	719
J. Yang and X.F. Sun	
Robust Image Corner Detection Using Curvature Product in Direct Curvature Scale Space	725
B.J. Zhong and C. Li	
The Application Research of Rough Set on Customer Risk	731
H.J. Guan	
Research and Design of Electronic Component Searching System Based on ASP Technology	735
Y.B. Zhao	
Distributed T&P Control System Based on CAN Bus for R-CUBE	742
J.G. Sun, J.Y. Gao, W.M. Li and R.H. Tan	
Advanced Studying on Microsoft SQL Server 2008 Data Mining	748
D.Y. Wang	
The Design and Implement of Image Information Identify System	753
F.Y. Guo	
Application of ANN Algorithm in Tree Height Modeling	756
Y.X. Li and L.C. Jiang	
A Study on the Acceptance Factors of the Smart Phone	762
Y. Cho, S. Jeon and G.Y. Choi	
Object Recognize by Column Vector Based on Rearrange Chain-Code	768
Y. An, J.M. Lee and J. Park	
Research on Reconfigurable High-Speed Serial Bus Used in High-Reliability Embedded Computer	774
R. Ding, Y.Q. Hu, W.G. Zhang and B. Yang	
Signed Integer Arithmetic on Spiking Neural P System	779
X. Gao and H.Z. Chen	
Design and Implementation of a Phase-Coded Quasi-CW Radar Signal Processor	785
C. Wang, F. Su and Y.P. Han	
Information Fusion of Ultrasonic Sensor Based on RBF Network in Obstacle-Avoidance System of Mobile Robot	791
W. Huang, Y.X. Yin, S. Ding, J. Dong, X.M. Ma and L. Zhang	
Intelligent Method in the End-Point Control of BOF	796
K.X. Peng, J. Zhang and J. Dong	
Research on Orthogonal Half-Wavelength Dipole Antenna	801
R.G. Wu, M.G. Gao, J.L. Gai and J.L. Bai	
Enumeration Based Security Behavior Model Checking Algorithm	808
H.X. Liu and Y. Jin	
The Study on the Framework of Wireless Network System	814
X.Q. Ji	
Principles for Process Reengineering of Manufacturing Logistics	820
K.F. Xie, Q. Wu and Y. Chen	
Product Life Cycle of Automobile Parts Concerning Piracy	826
S.S. Zhang, C.A. Zhu, J.S. Wang and L.T. Sun	
A Novel Human Pose Detection from Videos Algorithm Based on Motion Capture Data	833
O.Y. Yi	
Modeling Slump Flow of High-Performance Concrete Using a Back-Propagation Network	838
W.H. Chien, L. Chen, C.C. Wei, H.H. Hsu and T.S. Wang	
Parallel SMO for Traffic Flow Forecasting	843
F. Wang, G.Z. Tan and C. Deng	
A Novel Predication Approach for Network Security Situation Inspired by Immunity	849
Y.Q. Shi, T. Li, W. Chen and R.R. Zhang	
The Application of Data Mining in the Food Manufacturing Industry	856
C.M. Zong, H.B. Wang and X.J. Du	
The Study on the Framework of Intelligence Information Processing	861
X.H. Zou	

Data Preprocessing for Network Intrusion Detection L. Li and Y. Yuan	867
An Improved Resource Management Method in Mobile Wireless Communications G.Y. Lin, S.H. Dai and S.L. Ma	872
A Semantic Web Service Discovery Method Based on Ontology W.Y. Tian and Z.J. Xu	878
A Multi-Channel Radar Signal Process System C.F. Xu, J.L. Wang and R.G. Wu	884
A Novel Workflow Management Method Based on Web Services S.H. Dai, G.Y. Lin, H.Z. Xu and L.Q. Zhang	889
An Improved Filling Algorithm for Image with Complicated Closed Edges T.M. Wang, G. Chen and H. Guan	894
The Application of Feature Mapping in Model Transformation of Turbine Blade R. Cheng	898
An Empirical Study of the Construct of Information Systems Strategy B.L. Hu	905
Line-Based Optimization for 3D Object Reconstruction from Single Line Drawings J. Chu, M.T. Gao, G.M. Zhang and R.N. Feng	910
The Optimization of an Authenticated Routing Protocol for Ad Hoc Networks C.D. Lu and Q.W. Li	916
Hierarchical Process Neural Network Model within Variable-Sampling Time L. Chen and F. Liu	920
Multi-Disciplinary Knowledge Integration in Aero-Engine Design Z.F. Chen, H.C. Yang, R. Mo and H.B. Sun	926
Research about Option's Risk and Price in China Stock Market Based on Non-Linear HHT Signal Analysis in Matlab Z. Ning	931
Attitude Stability Determination Based on RCS Series Information Extraction for Space Objects X.J. Fu, M. Wang, C. Wang and M.G. Gao	936
Research and Construction of a Model for Electricity Behavior Trust Assessment Based on Sliding Window N.H. Zhou, X.L. Shen and C.Q. Wang	942
Early Warning Model of Enterprise Operating Ability Using BP Neural Network M.Y. Wang, J. Chen, X.L. Shen and G.L. Yu	948
Parameter Estimation of Spaceborne SAR Based on the Combination of STFT and FRFT J.L. Bai, R.G. Wu, J.L. Wang and Y.B. Hong	954
Design of High-Speed Decoder for New High-Speed Bus W.G. Zhang, B. Yang, R. Ding and Y.Q. Hu	958
Research on Monthly Electric Energy Demand Forecasting under the Influence of Two Calendars M. Meng, D.X. Niu, W. Sun and W. Shang	963
On the Stability Problem of Multimedia Systems J.M. Zhao	969
Constructing Ontology-Based Petroleum Exploration Database for Knowledge Discovery J.K. Ge and Z.Q. Chen	975
Algorithm of Call Auction Price Y.F. Sun, X.X. Liang, X.C. Guo and C.Y. Liu	981
QoS Prediction Approach for Web Service Recommendation Z.Q. Chen and J.K. Ge	987
The Architecture Framework with Exception Handing in SOA Q. Wu, S. Ying, Y.C. Ni and H. Cui	992
Research on Area-Feature-Based Filter Algorithm for Vehicle Recognition System W.H. Wang and W.Q. Wang	998
Global Stability Analysis of Multimedia Systems J.M. Zhao	1004
Design and Simulation of Distributed Vehicle Monitoring System Based on WebGIS G.N. Yuan and Z. Zhang	1009

A Hierarchical Case-Based Reasoning System for Quality Design C.Y. Liu and Y.F. Sun	1015
Simulating the Filtration Properties of Nonwoven Fabrics: Comparison of Artificial Neural Network, Statistical and Grey Models T. Chen, S.Z. Zhao and L.L. Wu	1021
A Geometric Modeling Method of Reconstruction Vertices and Edges with Smooth Surface X.L. Lu	1028
Research on Active Services Component Library Based on Ontology S.Y. Wang, Y.A. Ke and Y.W. Wang	1034
Game Analysis on Problem of Food Safety in the Agricultural Products Supply Chain C.H. Shi, Z.L. Sun and K.J. Dong	1040
Characteristics of Subspace Affine Pseudoframes with Filter Banks Q.J. Chen and L. Zhao	1046
Construction and Characteristics of a Kind of Four-Dimensional Vector Wavelet Packets with Four-Scale Dilation X.X. Tian and A.L. Huo	1053
A Hybrid Algorithm for Task Assignment Problem in Holonic Manufacturing System F.Q. Zhao, J.H. Zou and S.X. Sheng	1060
Multi-Agent Order Selection and its Optimization Method with Evolution Algorithm L. Zhang, J.W. Zhang and W.J. Ma	1066
Constructing a Rule Engine System with SQL Server 2008 Z.J. Ren	1072
Application of Web-Based Intelligent Agent Tutoring Learning System W. Qiu	1078
Research on MES Domain Analysis Driven by Ontology W. Long	1084
Research of Integrity Constraints in Information Integration C.S. Wang and Q.L. Guan	1091
Macrocell Label Switching Mechanism for MPLS-WiMAX Networks J.H. Chen, C.C. Wang and Y.C. Hsiao	1096
Fast Global Motion Estimation Algorithm for Microscopic Image Sequences X.T. Zhu, M. Yu, Y.G. Wang and G.Y. Jiang	1103
A Forecast Model of Agricultural and Livestock Products Price W.S. Zhang, H.F. Chen and M.S. Wang	1109
Analysis of Reactive Pollutants Distribution in Damaging Street Canyon Architectures P. Wang and H.L. Mu	1115
Theory-Based Review on Authentic Leadership P.L. Guan and L.L. Zhou	1121
AR Parameters-Based Nonlinear Blind Source Extraction Y. Cai and G. Wang	1129
Adaptive DCT Based Digital Watermarking Scheme G. Feng and Y.M. Yang	1136
Video Text Localization and Extraction Based on Variance Projection and Morphology A.Q. Zhao, D.Y. Zhang and X.F. Xu	1143
Towards Dynamic Voltage/Frequency Scaling for Power Reduction in Data Centers C.F. Jiang, Y.H. Zhao and J. Wan	1148
Preparation and Properties of Sodium Carboxymethyl Cellulose-Hyaluronic Acid-Carboxymethyl Chitosan Blend X.H. Zhao, X.W. He, S.Q. Xie and L.S. Yang	1157
On the Global Stability Problem of Multimedia Systems J.M. Zhao	1162
Weighted Subgraph Mining Technology to Knowledge Discovery B. Liu	1167
An Improved Method for Mathematical Formula Extraction in Printed English and Chinese Documents X.D. Tian and X. Liang	1174
Stability of Multimedia Systems J.M. Zhao	1180

Intelligent Control System Based on SVM Combined with Soft Sensor for Microbiological Fermentation J.H. Wu and T. Cen	1185
The Research on Path Planning Algorithm of RoboCup Based on PFNPGA X.Y. Cheng, Q. Zhu and Z.W. Zhang	1192
Effect of Extension Coefficient on H-Beam Deformation X.Z. Feng and Q. Li	1199
Application and Development of Domestic and Foreign Virtual Manufacturing Technology W.Y. Zhang	1205
Artificial Neural Networks in Materials Science Application W.Y. Zhang	1211
Authentication and Key Agreement in a 3G-INTERNET-WiFi Crossplatform Communication System Y. Ding, L.Z. Zhang and J. Hu	1217
The Integrated Innovation of Function Combination Based on Axiomatic Design P. Jiang, J.J. Zhai, X.P. Zhao and R.H. Tan	1222
The Construction of Index System and Comprehensive Evaluation Model Based on Improved Genetic Algorithm and Fuzzy Neural Network Y.Y. Zhang, S.S. Yang and P. Dong	1229
Traffic Flow Forecasting Based on Chaos Neural Network Y.Y. Zhang, S.S. Yang, Q. Cai and P. Sun	1236
A New Encryption Method Based on Rijndael Algorithm and DNA Computing X. Wang, Q. Zhang and X.P. Wei	1241
Image Encryption Based on Genetic Engineering for Image Hiding S.H. Zhou, Q. Zhang and X.P. Wei	1247
Facial Expression Recognition Based on Features Fusion C.J. Zhou, X.P. Wei and Q. Zhang	1253
Research of Displacement Measuring System Based on Capacitive Grating Sensor G.P. Yu, S.H. Wang and Y.G. Zhou	1260
Case-Retrieving Model Based on User Classification in CBR System H. You, Z.X. Hao and Q. Wang	1265
The Total Entropy Model of Fractal Supply Chain Network System H. You, Z.X. Hao and Q. Wang	1269
Applied Research on FMS with UML-OOPN Integration Modeling Method Z. Wang, M.R. Chen and X. Fu	1274
Design and Simulation of an Improved Particle Swarm Optimization J.X. Wei and Y.H. Sun	1280
The Application of UG NX Second Development in Centrifugal Pump Impeller Vane 3D Solid Modeling X.T. Wei, Q. Du and J.C. Liu	1286
MAS Learning Based on Bayesian Learning Method D.J. Shi, Z.Q. Liu and J. He	1292
B-Spline Curve Fitting Based on Adaptive Particle Swarm Optimization Algorithm Y.H. Sun, Z.L. Tao, J.X. Wei and D.S. Xia	1299
Heterogeneous System Integration Based on Service Component S.B. Li, Y. Hu and Q.S. Xie	1305
Application of a Virtual Geosciences Modeling System in Digital City Construction C.H. Dong, J.P. Hu and L. Wang	1311
Color Calibration of Remote Sensing Imagery Based on Orthogonal Space Transformation X. Chen and Y.P. Zhang	1315
The Design of Digital Signature System Based on PKI C. Wang, Z.X. Hao and Q. Wang	1323
A Research for Evolutionary Process Based on TRIZ Evolution Theory S.B. Li and J.H. Mou	1328
Research on Innovation Process Model Based on Function Evolution Q.H. Li, G.Z. Cao, H.X. Guo and R.H. Tan	1336
The Realization of Case-Retrieving Model of CBR System Based on AHP Z.H. Li, Z.X. Hao and Q. Wang	1342

Virtual MISO Based Cross-Layer Cooperative Transmission Protocol in Ad Hoc Networks X.B. Cai, F.L. Niu and Y.D. Cao	1346
A New Method on Matching Correspondence Features in Image Warping Z.P. Hu and Y.J. He	1353
Real-Time Eye Locating and Tracking for Driver Fatigue Detection Y.L. Li, B. Hu, S.J. Wang and X.Q. Ding	1359
Structural Damage Detection Based on Fuzzy LS-SVM Integrated Quantum Genetic Algorithm J.H. Xie	1365
Multimedia Technology and its Application Based on Optical Network N. Zhang	1372
Wavelet Fuzzy Neural Network Based on Modified QPSO for Network Anomaly Detection R.H. Ma and Y. Liu	1378
Comparison Experiment for Two Kinds of Hypoid Gear Drives H.B. Yang, X.H. Wang and Z.D. Fang	1385
Quantitative Calculation Methods of Modules Matching for Product Configuration J.H. Zou and Q.G. Du	1391
Application Study on Metal Forging Technology of Square Block Based on DEFORM W.H. Kuang and B.B. Chen	1397
Forming Process and Technology Research of Mobile Telephone Frame W.H. Kuang and J.L. Liu	1401
Numerical Simulation and Process Research for Cylindrical Drawing W.H. Kuang and Q. Liu	1405
Reliable Guaranteed Cost Control for a Class of Large-Scale System Based on T-S Fuzzy Model Z.Q. Huang, Y.X. Zhang and Z.J. Ren	1409
Robust Optimization Design of Ultra High Strength Steel Roll Forming Based on Response Surface Method F. Han, Z.Q. Ai, J.Y. Liu and Z.J. Jing	1416
Optimized Mobile Phone Mechanical Architecture C. Jing	1423
Modeling Research of Hypoid Gear Based on Real Machining Process X.T. Wei, J.C. Liu and Q. Du	1429
Effects of Positions of Thermistors on the Airflow Accelerater Output by 3D Finite Element Analysis Y.J. Li and L.H. Piao	1434
A Stability Analysis of Randomized Scheduling Algorithm for Input-Queued Switches M.S. Sun and J. Wu	1439
Comparative Study on the Cultivation Pattern of Compound Informationization Innovative Undertaking Talented Person Home and Abroad D.L. Sun, C.S. Wu, X. Tan, J.Y. Xue, L.X. Zhang and P.P. Liu	1446
Research on Photoelectric Hybrid Current Transformer G.P. Yu, N. Chen, Y.G. Zhou and S.H. Wang	1452
Experimental Study on Pyroshock Responses of a Conical Shell Y.J. Mao, X.H. Yue, H.Y. Huang, B.L. Niu and H.J. Huang	1458
Analysis of Lateral Bending for Continuous Casting Slab X.Z. Feng	1463
Performance Analysis of a Circular Polarization Antenna for the 900MHz RFID Reader J. Park, J.H. Chun, Y.E. An, S.K. Kang and J.W. Seo	1469
Research on Video Sequences Quality Based on Motion Intensity C.T. Yang, Y. Liu and J. Yu	1476
A Novel Method for Body Shape Analysis in E-MTM Y. Liu, C.T. Yang and J. Yu	1482
A Scalable Inter-Domain Routing Architecture Based on Core-Edge Separation W.F. Liang, J.H. Huang and D. Zhang	1487
A Novel Temperature Sensor Based on Gold Interdigital Electrodes and Nano ZnO Particles G.H. Hui	1495

Practicing for Business Intelligence Application with SQL Server 2008 Z.J. Ren	1499
On the Accuracy of Inverse Evaluating Heat Transfer Coefficient G.X. Tang, T. Yang, F. Zeng and S. Yao	1504
Design of WSNs Architecture Applied in Remote Monitoring of Power Towers G.S. Zheng, F. Deng and W.D. Zhang	1510
New Exact Solutions of (2+1)-Dimensional Generalization of Shallow Water Wave Equation by (G'/G)-Expansion Method B.Q. Li, M.P. Xu and Y.L. Ma	1516
Hybrid ANNs-GAs Strategy Based Constrained Optimization and Application in Sheet Metal Flanging Forming J.J. Rao, T.Y. Gao, Z. Jiang and Z.B. Gong	1522
Flight Control System Onboard Embedded Software for Small Unmanned Aerial Vehicles J.J. Rao, T.Y. Gao, Z. Jiang and Z.B. Gong	1528