Table of Contents

Preface

Chapter 1: Materials Science and Engineering

The Influence of Nitrogen on the Chlorophyll Fluorescence Parameters of Lettuce J. Sun, C.H. Song, X.H. Xiao, X.M. Jin and J.H. Ni	3
Research on Influence Factors for Loosing Performance of Cotton Loosing Machine for Long Fiber PP Cotton	
Y.Y. Han, Z.G. Li and F.J. Cui	8
Study of Nano-Mechanical Characterization of Minimum Chip Formation Using Atomic Force Microscopy F.F. Zhao	12
Four Flavonoid Glycosides from the Pulps of <i>Elaeagnus angustifolia</i> and their Antioxidant	12
Activities Y. Wang, T. Guo, J.Y. Li, S.Z. Zhou, P. Zhao and M.T. Fan	16
Preparation of Ni-Mn-Zn Ferrite Films on CeO ₂ /YSZ-Buffered Si Substrate Y.Q. Yang, L. Zheng, H. Zheng and X.F. Yan	21
Reliability-Based Balanced Condition for Strengthened RC Beams C.X. Li, Z.S. Ding, S.L. Yan and J.M. Chen	25
Effect of Cuing Conditions on the Microstructural Characteristics of Complex Binders X. Li, J.J. Yan and H.Q. Yang	29
The Development and Application of Object-Oriented Finite Element Analysis System for Sheet Metal Forming	22
G.J. Li, S. Yuan and X.D. Xu	33
Application and Research Development of Steel-Concrete Composite Bridge Z.X. Li, Y.W. Dai and R.L. Hu	37
Experimental Study on Mineral Processing of Carlin-Type Gold Deposits in Guizhou W.H. Pang, Q.J. Liu and P. Ding	41
The Resin Radial Flow Numerical Simulation in Dual-Scale Porous Fibre Media at Constant Pressure X.J. Chen, S.J. Guo, W.Y. Yan and S.L. Yan	44
The Application of Composite Materials in Coal Mine Production Y.Q. Wang, P.F. Zhang and J.Z. Li	49
Study on the Strength Properties of PPTA Paper with Response Surface Methodology A.M. Tang, S. Zhao and C.F. Jia	54
Study on Electroless Nickel Plating Process and Property of Aluminum Alloy X. Chang and X.B. Zhang	60
Random Dynamic Analysis of a Crack in a Functionally Graded Materials Layer for Plane Problem Using Shear Stress	
H.Z. Zhang, J.L. Zhang, J.Z. Zhang and Z.G. Zhou	64
The Present Situation and Progress of Zinc Oxide Flotation S.M. Cao, X.L. Zhang and S.Q. Zeng	68
Investigation on the Austenizing Transformation Process in Continuously Heated X65 Microalloyed Pipeline Steels D.T. Zhang, Z.X. Qiao, J. Huo, Y.C. Liu, H.J. Li and Z.S. Yan	72
Desulfurization Study of an Iron Mine in Yunnan	, _
P. Ding, Q.J. Liu and W.H. Pang	76
Study on Properties of Cupriferous and Boracic Iron Based Sintered Composites M.H. Jiao, B.C. Wan, B.W. Su, S.B. Ma and Y.G. Yin	80
Electrochemical Characteristics of Al-Based Coating on Magnesium Alloy Fabricated by Supersonic Particles Deposition X.M. Wang, S. Zhu, Q. Chang and G.F. Han	85
Study on Mechanical Properties of Cu-Bi Bearing Materials Y.G. Yin, Y.Y. Li, G.T. Zhang, L.G. Yin and X.N. Jiao	89

Performance of Precipitates in the Stress Aging Treatment of 7075 Al Alloy W. Guo, M. Yang, H. Li and J.W. Zhang	93
The Infrared Spectrum Analysis and Antioxidation of Glycosaminoglycan from <i>Patinopecten yessoensis</i> Waste Q.M. Cui, G.J. Li, Y. Zhao and C.Y. Yuan	97
Analysis of Temperature Characteristics of an AlGaAs/GaAs/Ge Triple-Junction Solar Cell	91
by IS Y.Q. Zhang, W.J. Cao and A.M. Liu	101
Modeling of Random Fatigue Crack Propagation	105
X.L. Zou Experiment and Theoretical Study on Thousand Transport Process in Nano Sized Conner	105
Experiment and Theoretical Study on Thermal Transport Process in Nano-Sized Copper Film	
F.D. Zeng, Y.P. Han, J.X. Wang and S.Z. Wang	108
Research on Stability of E-Glass Fiber/Epoxy Composite Material Tube Y.L. Peng, L. Li, M.X. Xu and Q. Sun	112
Effect of K ₂ Cr ₂ O ₇ Concentration on Army Green Ceramic Layer Formed of 2A12 Alloy by Micro-Arc Oxidation	117
X.C. Shi, J.Y. Xu, C. Gao, G. Wang and Y.Q. Zhou Application of Self-Compacting Concrete (SCC) in the Execution of Reservoir of Water	117
M.B. Galzerano, L.T. Bressan, R.C. Cecche Lintz, L.C.L. Jaquiê Ribeiro, M.S.G. Pires, A.E.P.G.A. Jacintho and L.A. Gachet-Barbosa	121
Effect of Fabrication Parameters on Localized Surface Plasmon Resonance Property of	
Gold Nanorod G.G. Zheng, L.H. Xu and M. Lai	124
Research Development on the Preparation of NiFe Magnetic Nanoparticles Y. Liu, Y.X. Chi, X.Y. Li, S.A. Wang and S. Lin	128
Study of Friction and Wear Properties of C-Cu Composites Reinforced with Carbon Fiber	
Cloth C. Li, D.G. Zhu and Q.Y. Huang	132
The Research of Negative Ion Test Method for Fabric	
Y.S. Sun, B. Qiu and Q.S. Li	138
Sliding Wear Resistance of Tempered T15m High Speed Steel Q.Y. Huang, D.G. Zhu, C. Li and P.Q. Sun	141
A Study on Spectral Characteristics of Hematoporphyrin Monomethylether and	
Hematoporphyrin in Different Solvents M.T. Zhao and X.F. Yang	146
Highly Transparent Superhydrophobic Surfaces from Silica Aerogel by Sol-Gel Method	110
T.T. Zhang, J. Huang, R.Z. Zhang, P.Y. Mao and P. Fang	150
μ_{MAX} Enhanced 190% of a Strained NMOS Based on SiGe Virtual Substrate Z.H. Tang, K.Z. Tan, W. Cui and B. Wang	154
The Improvement of Bead Wire Coating for Lorry Tyre	10 1
C.J. Liu, J. Ma and J. Chen	158
Study on the Performance of the New High-Strength Steel-Encased Concrete Composite Beam (SCCB)	
Q.Y. Shi, C. Liu, L.L. Cao and Z. Wang	161
Improved Preisach-DOK Modeling on the Henkel Plot of a Longitudinal Barium Ferrite Z. Jing, X. Fang and H. Ning	166
Optimization of the Culture Medium for <i>Rhodospirillum rubrum</i> S1 with an Artificial	100
Neural Network Model and GA Y. Pan, W.J. Wang, H.J. Tian, S.H. Li and Z. Zhu	172
LD Longitudinally Pumped Nd:YAG 946nm Lasers Optimization Analysis J.Q. Li, J.Y. Shi, C.L. Qiu, W. Quan and S.M. He	176
Optimizing the Conditions for Polysaccharides Ultrasonic-Assisted Extraction in Mycelium	1/0
of Paecilomyces Tenuipes Pt196 Using Statistical Approach L.N. Du, W.T. Bu, W.L. Pan, C. Shao, J.H. Lu, Q.F. Meng and L.R. Teng	180
Based on ABQUS of Concrete Structure Nonlinear Finite Element Analysis L. Jian	186
Response Analysis of SRC Column Subjected to Blast Loading	100
J.K. Tan, J.Y. Pan and H. Yang	190

Numerical Analysis of a Pre-Stressed Bridge under Static Loads Based on ABAQUS Q. Zhou, J.G. Hou and X.C. Zhang Numerical Simulation Study of the Influence of Ceiling Materials to Roof Radiation Heat	194
Exchange S.T. Hu, F. Qi, T. Xie, X.X. Wang, G. Wang and G.D. Liu	198
Chapter 2: Mechatronics, Control, Testing, Measurement, Instrumentation, Detection and Monitoring Technologies	
An 8-bit 5-Gsample/s Time-Interleaved Analog-to-Digital Converter Used for Optical Communication	205
Y.H. Gao, Y.L. Wang, G.B. Chen, Z.P. Zhang, C. Zhu, L. Zhang, R.K. Ye and R.B. Hu Location-Based Medium Access Control Protocol for Data Intensive Wireless Sensor	205
Networks G.Y. Yang, X. Guan and Y.F. Li	209
The Control of the Modified Meter of Flight Equipments H.Y. Song, L. Chen, X.Q. Li and P.T. Ni	214
Designation of Monitoring System with Multi-Touch Based on Configuration Software and Windows Presentation Foundation	
C. Xi, T. Chao and L. Lu	218
Localizing Multiple Odor Sources Using Virtual Physics Based Robots Y.L. Zhang and X.P. Ma	223
Comparing Plume-Tracing Algorithms in Obstructed Multi-Source Environments Y.L. Zhang and X.P. Ma	228
The Optimized Design of the Welding Gripper for the Body Pre-Assembly L. Liu, D.R. Qiu and J.G. Lin	233
Research on the Application of 3G Robotic Welding Guns to the Welding of Body-in-White Based on Delmia	
L. Liu, H.C. Dai and J.G. Lin	237
Study and Design of Feedrate Scheme in CNC Interpolation H. Zhu, J.N. Liu, A.K. Yang and M.L. Wang	241
The Comparative Analysis of SVC and STATCOM on Subsynchronous Oscillation Mitigation	
J. Zhang, X.N. Xiao, B.F. Gao and C. Luo	245
A Modeling Method for HVDC Control on RTDS Simulation Y.Q. Zhang, R.L. Xu, J.Y. Zhong, X. Hou and L.J. Qian	250
The Analysis for Semi-Active Control Application in the MSCSS Subjected to Seismic Excitation	
H. Wu, X.A. Zhang and T. Cai	254
Research on Concrete Hydraulic Crushing Based on Five-Plunger Pump Y.M. Qi, Z.M. Wang, S.P. Deng, Z.X. Meng and C.G. Wang	257
Design of Control and Monitor System of Foam Cement Mixing Device Based on PLC and	
MCGS C.G. Wang, Q.H. Sun, Z.M. Wang and Y.J. Qi	261
A New Method of Chaotic Detection for Weak Sinusoidal Signal Frequency F.L. Zeng, Y.Y. Hu, X.J. Geng and S.G. Zhang	265
The Neural Network Control Algorithm Research of Straight Pull Single Crystal Furnace M.Y. Li, H. Meng, J. Zhao, Z.T. Xue and Y. Zhang	271
A Group of Stable Features Suitable for the Traffic Classification K. Liu	275
TTCN-3 in Conformance Testing of RRC Connection Reestablishment N. Zhang and Y. Liu	280
Position Servo Control of the Transverse Flux Machine Based on an Armature Current	200
RMS and Initial Phase Control Method J. Xie, S.M. Wang, Y.X. Wu and Z.H. Sha	284
Remote Monitoring System for Water Quality in River Based on WSN B. Shi, D. Zhao, Z.H. Ma and L. Zou	288

The Control Strategy of Establishing the Voltage of DC Side in MMC M. Ma, G. Peng, J.W. Hao, J.J. Lu, C. Yuan and X.N. Xiao	292
Control of DFIG Based on Per-Unit System on RTDS Y.L. Hu, Y. Wang, D.X. Sun, T. Ding and L.J. Qian	298
A Control System of the Transferring Robot in Car Assembly Line S.T. Zhu, J.M. Liu and H.M. Liu	303
Research on Road Coasting Test of Hybrid Electric Vehicle T.T. Li, K.J. Qin, J.H. Gao and C.L. Zhang	307
Related Parameters Analysis in Vehicle Side Pole Impact H.T. Zhu, L. Liu, Q. Chen and Z.D. Zhang	311
Automatic Supervisory Control System of Quenching Temperature in Steel Mill J.X. Zhang, Z.G. Di and C.R. Jia	318
Calculation Error's Correction of Three-Component Geomagnetic Field's Marine Survey X.L. Zhu, C.H. Xiao and Z.N. Yao	323
Velocity Control of Unmanned Helicopter Based on Fuzzy-PID X.X. Chen, Y. Liu, X.W. Hu, Y. Qian and J.H. Wang	327
The Key Management Scheme For the WMSN-Based Post-Disaster Road Monitoring System	
X.L. Sun, X.G. Sun, S.S. Li, F.M. Chen and Q.G. Yang	332
Medium Access Control Layer Design and Simulation for 802.16 System Y. Cheng, H.W. Zhao, Y.C. Li and S.H. Pei	338
Wavelet Robust Filtering of Out-Trajectory Data L.J. Meng and H.B. Liu	344
The Application of Fuzzy Control in Computer Control Y.C. Zhao and J. Liu	349
Accuracy Analysis of Positioning Method for Fusion GPS Pseudo-Range and Continuous Wave Radar H.J. Zhang and C. Wei	354
On the Contrast and Research of Maximum Power Point Tracking Control in the Microgrids PV System B. Hu and Z.L. Piao	361
The Software Design of Intelligent Diagnosis System for Partial Discharge Fault of GIS J.W. Shen, W.M. Su, X.R. Lv and X.X. Huang	365
The Research on the Visual Obstacle-Avoidance Optimization in Robots Control H.B. Tian	372
Online Monitoring System of the Mine Main Fan H.W. Zhang	376
Study and Simulation of the Model of Stability Measurement for Integrated Semiconductor Equipment	
F. Xue and H.F. Wang	380
Blue Monitor: A PEEM-Based Online Battery Monitoring and Maintenance Platform C. Ren, K.G. Chang, C.H. Li and J. Bao	384
Access Control Based on Trust Policy in Open Grid Environment L.T. Gao and Z.Y. Wang	390
The Design of Infusion Monitoring System Based on STM32 Microcontroller Z.H. Xu, W.Z. Li and Y.J. Xiao	395
The Impact Point Detecting System for Photo-Electricity Targets Z.H. Xu, W.Z. Li and Y.J. Xiao	399
Research of Sliding Mode Control in Electro-Optical Tracking System Z.P. Guo, C.M. Xie and Y.J. Xiao	403
Experimental Study of the Performance Test for the Infusion Monitoring System Z.H. Xu, W.Z. Li and Y.J. Xiao	407
Embedded PWM DC Motor Control Cystem Based on ARM C.M. Teng	411
Development and Application on the Optimization Control System of the Gas Collector Pressure in Coke Oven	
X.J. He, Z.R. Gao and J. Zhang	415

LMI Enhanced Observer Design for Lipschitz Nonlinear Systems F. Qiao, Q. Ma, F. Zhang and H.M. Zhao	420
Design on Fuzzy Neural Network PID Control System of Diesel Engine Z.C. Zhou and R. Chen	425
Research on Direct Torque Control of Doubly-Fed Generator Based on DSP Technology Z.C. Ma and Y. Zhang	430
The Design of Electromagnetic Heating Furnace Based on Bridge Type Inverter L.Z. Jiang	435
Remote Video Surveillance System Based on Direct Show and Image Compression S.F. Gong, L.G. Wu and Y.J. Wang	439
The Research of the AC Servo Control System for Shroud Removal Based on PMAC X.X. Xie and Y. Liu	443
The Remote Monitoring Platform Based on GSM/WCDMA Y. Liu, G.H. Lou and Y.J. Niu	447
Supervisory Control of Silicon Steel Plant Dust Removal System Based on Configuration Technology	450
L.J. Yang Traffic Signal Control and Simulation of Single Intersection Based on Fuzzy Control	452
H.X. Xiao and Y.F. Zhu	458
Test Method for Energy-Efficiency on Servers C.R. Ge, X. Fang and Q. Tan	463
Research on the Application of Wavelet Analysis in Fault Detection W.X. Zhang, H. Guo, Y. Wang and Y. Liu	468
Simulation and Analysis of PMSM Based on Space Vector Control Strategy G. Zhao and N. Zhang	472
Comparison of the Application of 3G and COFDM in UHV Transmission Lines Inspection J. Li, Y. Lu, B. Qi and X.J. Liu	477
Research of Node Energy Consumption Based on Dynamic Power Management in Wireless Greenhouse Control System Y.X. Song, J.L. Ma and X.J. Zhang	482
Design and Implementation on Auto Test Set of an Airborne Radar F.L. Jin, Y.P. Li and H.R. Wang	489
Support Vector Clustering for Outlier Detection H.L. Wang, W.B. Li and B.Y. Sun	493
Complete Coverage Path Planning and Obstacle Avoidance Strategy of the Robot J.H. Wu, T.D. Qin, J. Chen, H.P. Si, K.Y. Lin, Q. Zhou and C.B. Zhang	497
An Evacuation Decision Making Model for Firefighters in Ad Hoc Robot Network D.M. Li, J. Zou, K.K. Yue, H.Y. Guan and J.C. Wang	504
Vision Control System of Pipe Welding Robot L.F. Tang and C.J. Wang	509
Based on Neural Network PID Controller Design and Simulation H. Xu, J.G. Lai, Z.H. Yu and J.Y. Liu	514
The Design of Strapdown Inertial AHRS Based on MEMS Q.H. Wang, D. Li, L. Chang and W.Z. Wang	518
Design of Intelligent Access Control System Based on UWB Location Algorithm X. Meng and Y. Zhao	523
Study on Application of Monitoring the Melt Flow Balance of Injection Molding Process by Using Cavity Pressure Monitoring Technology J.W. Chen and L. Yang	528
A Comprehensive Test Compression Scheme Based on Precomputed Test Sets Z.J. Tian and F.Y. Zhao	533
The Algorithm of Measuring in Close-Range Photogrammetry Based on Grid W.L. Xu, Z. Liu and H.Y. Nie	542
The Design of Intelligent Voltage Monitoring System Terminal L. Chen, X. Wang and J.S. Li	546
The Study of Electrode Size on Sensitive Field Effect of Electromagnetic Flow Meter in the Measuring Fluids Containing Non-Conductive Body	
Y.M. Wang, L.F. Kong and Y.W. Li	551

Multi Point Temperature Measurement System Based on DS18B20	556
Z.J. Liu	556
The Measurement of Cutting-Force during Compensating the Errors of NC Process D.X. Zheng	560
Research on the Simulation Model for Longitudinal Control Channel of FCS Based on PC Q. Li, W. Yang and Z.X. Huang	564
Design of Dual-PWM VVVF System Based on ARM J.W. Liang, L. Liang and S.R. Han	569
The Research of Gas Sealing Performance Inspection Module of Electronic	207
Sphygmomanometer Based on STC12C5A X.Z. Li and X.H. Feng	574
The Application Research of Remote Monitoring System Based on GPRS Technology S.J. Lv, H.R. Wu, Z.Y. Liao and R. Zhao	579
Design of an Intelligent Lighting and Monitoring System of Teaching Building Based on	
LabVIEW Q.R. Lu, J. Zhu and Q.L. Tang	584
A Time Series Analysis and Forecasting Model in Dam Safety Monitoring R.L. Hou, H. Gao and H. Li	589
Evaluating the Significance of Acquisition Parameters of Vehicle Remote Monitoring	
System F.J. Meng, Y. Shen and Y.Y. Chen	594
Design and Realization of an Online Power Quality Monitoring System Based on DSP and GPRS	
D. Li and Y. Zhou	598
Design of Mine Gas Monitoring System Based on Wireless Sensor Network L.L. Gao	603
Research and Design of Centralized Micro Soccer Robot's Decision-Making System C.Q. Wu and Y.F. Wu	607
Control of Circulating Current for Direct-Parallel Connected PWM Inverters C.X. Wen and K.K. Fang	612
A Novel Frame Layer Rate Control Algorithm for H.264 X.H. Li, Y.H. Zhu, Y. Wang and Y.M. Shi	618
Indirect Adaptive Fuzzy H^{∞} S. Xu, Z.Q. Wang, Y.R. Chen, B.T. Liu and L.Y. Xu	622
Direct Torque Control of Interior Permanent Magnet Synchronous Motors Based on Position Sensorless Control	(27
Z.J. Meng, R. Chen and Y.J. An The Traffic Prediction and Control Pered on Penels Set Theory.	627
The Traffic Prediction and Control Based on Rough Set Theory A.L. Fan	632
Signal Processing and Design of Nodes in WSN Agricultural Monitoring System X. Qian, D. Wang and X.X. Zhu	636
The Research on Substation Monitoring System Based on Multi-Sensor Network Y.Q. Li, T. Li and X.Y. Sun	641
Discussion on Issues Electrode Line Monitoring H.Y. Zhen, F.L. Li and Y.S. Wang	646
The New Method of Solar Power Generation Using Spin Angle and Elevation Angle Program Control with LabVIEW	
Q.R. Lu, L. Wang, Q.L. Tang and Y.J. Yang	650
GPS Antenna Used in Tracking and Identifying Cargo Y. Li and C.Y. Zou	655
Blind Signal Detection for Uniform Rectangular Array via Compressive Sensing Trilinear Model	
X.F. Zhang, H.X. Yu, J.F. Li and D. Ben	660
Testability Modeling and Prediction Method with Unreliable Test J. Luo, Q.B. Deng and C. Zhang	665
Robot Visual Servo Based on Particle Swarm Optimized ADRC X.L. Liu and L.P. Xiong	669

Application of Controller with Complex Zeros in the Photoelectric Tracking System J.M. Kuang and S. Zhang	673
The Measurement of 3D Object Shape Based on Fourier Transform Profilometry H. Dong	678
Design of Mobile Video Monitoring System Based on Android H. Zeng, X. Chen and Y.H. Fu	682
Research on Empty Bottle Image Inspecting System Based on Machine Vision H.J. Sun	686
Design of Wireless Sensor Nodes in Intelligent Management System for Scenic Spot Y.G. Lin and S.Y. Long	690
The Method and Implementation of C3I Network Devices Monitoring W.B. Cao, G.S. Chen, G. Niu, Y.J. Zhang and W.Y. Bai	696
The Research of Flexible Testing System G. Niu, G.S. Chen, W.B. Cao, Y.J. Zhang and W.Y. Bai	701
Research on the Optimal Design of Soccer Robot Based on the Mechanical Analysis S.H. Yang, X.X. Chen, Z.B. Gao and L.F. Huang	705
The Research of Workflow Access Control Methods Based on Spring Acegi X. Yin and H.B. Zheng	710
Fuzzy Comprehensive Evaluation of Human Performance Management H.C. Zhang, Y.F. Yang, F. Li and L.N. Shi	715
Refractory Ingredients Batching System Design Based on Fuzzy Control J. Zhang and X.J. He	720
Evanescent Fiber Sensor for Determining Water Content in Polar Organic Solvents Y.P. Wang, F.B. Xiong and W.Z. Zhu	724
The Research of the Fabric Automatic Friction Ion Detection Device B. Qiu, Q.S. Li and S.L. Zhang	728
A Novel Distributed Optical Fiber Sensing System Based on Parallel Computing L.D. Lu, Y. Liang, B.L. Li and J.H. Guo	731
Predictive Control Algorithm in the Application of Computer Control J. Liu and Y.C. Zhao	736
The Dynamic Modelling and Simulation of Spatial Multibody Systems with Prismatic Joint Based on Vector Bond Graph Z.S. Wang, Y.Y. Tao and S. Liu	740
Microwave Directional Wireless Power Transmission for Wireless Sensor Networks D.R. Wu, H.J. Wu and X.L. Zhu	746
Research on the Wireless Sensor Network Data Fusion Technology Y.Q. Fan, Y. Ding, M.L. Liu and X. Zhang	751
Design of Distributed Pulse Data Acquisition System S.G. Wu and J.X. Chen	756
Predistortion Technology Used for TWTA Y.F. Wang, D.F. Zhou, Y. Zhang, Y. Sun and J.Y. Xu	760
Process Planning and Simulation Validate of Welding Line for BIW Based on DELMIA J.G. Lin, D.C. Shi and L. Liu	764
Modeling and Simulation of Voltage Frequency Ratio Control System for Asynchronous Motor	
J. Rong, Y.J. Ding, X. Chen, L. Wan and Y.M. Li	768
Recursive Backstepping Nonlinear Control and Sliding Mode Control of a Novel Hyperchaotic Finance System P. Hu, G.L. Cai, L. Yao and X.L. Fang	775
A Novel Temperature Compensated Amplifier C.P. Liu, J.G. Shi, G.Q. Wang and Z.R. He	781

Chapter 3: Communication, Computer Engineering and Information Technologies

Research on the Association Relationship of Information Industry Based on Structural Decomposition Analysis	505
X.F. Zhang and H. Cheng The Research and Application of Network Security Technology in the University Network	787
L. Jia	791
The Research of CAS in the Enterprise Information Resource Integration Z.H. Zhang and D.S. Xue	796
Study on Resource Construction and Management of Multimedia Network Teaching J.H. Zhang, D.P. Wang, L. Wang and X. Guo	800
Security Early Warning Assessment Program of Hazardous Sources Based on Early Warning Information Processing Model L. Jia	804
Research on a Comprehensive Evaluating Model of E-Commerce Website Design Based on AHP	010
X.N. Zhu and F.P. Wu A Multiprocessor RTOS Design of uC/OS	810
R. Wang and Z.H. Li	814
Distributed File Information Management System Based on Hadoop J.X. Sun, Y. Chen, T.Y. Li, R.Y. Wang and P.H. Li	820
Design of Framework for Campus Network Transition from IPv4 to IPv6 H.M. Ye and M.R. Li	824
Performance Analysis of Improving ZigBee Wireless Network Using AODV Mesh Routing Model	020
A.G. Malek, C.L. Li, Y.C. Liu, Y.P. Liu and A.M. Wleed Model of Improving Searching Precision For Interactive Users with Searching	828
Requirements T. Chong, Y.L. Shao and J.J. Wang	833
A Quasi IBE Identity Authentication Scheme in a Cloud Computing Environment S.C. Guo, Y. Liu and J. Ling	837
Study and Realization of SNOW 3G in LTE System X.W. Li and F. Liu	841
Research and Implementation of Uplink Synchronization in TD-LTE D.M. Zhang, S. Yao and X.W. Li	846
DTN Routing Mechanism Based on Area Dipartition Y. Yang, L.S. Han, R. Yan, X.P. Kong and W.C. Xu	851
Security Research Based on the RBAC of Ship Parallel Collaborative Database Z.H. Chi and Y.D. Liu	855
Production Information System of Automobile Assembly Line Based on PLC Remote I/O S.T. Zhu, J.M. Liu and Y.X. QIN	858
An Improved SVD-LMMSE Channel Estimation Algorithm of LTE System Y. Zhou, H.C. Dong and X.W. Li	862
The Research and Design of Trusted Cloud Computing Platform Based on Group Theory Y. Yang and X.H. Shao	867
Cloud Service Model Based on University English Reading Database Z.C. Dun	872
On Competitive Strategy for Group Purchase Websites in China B.Y. He and B. Huang	877
Applied Research of the Decision Tree Method in Personalized Distance Education System J.W. Wang, X. Wang, L.B. Zhao, Y.H. Wang and H.J. Li	881
SR-Tree: An Index Structure of Sensor Management System for Spatial Approximate Query	
X. Tong, Y. Liu, Z. Shi, P. Zeng and H.B. Yu	885
A Whole Rate-Distortion Optimize Pronounce Based on Wireless Sensor Network Q.S. Yu, J. Zhang and J.X. Peng	890
Design of College Teacher Workload Management System Based on ASP.NET D.S. Zhou and B. Hu	895
Big Data Storage Method in Wireless Communication Environment Y. Liang	899

Big Image Data Management on Portable Equipment Y. Liang	905
Online Examination System for Microsoft Office Software Operations L.L. Li and L.X. Sun	911
Mobile Big Data Query Based on Double R-Tree and Double Indexing Y. Liang	916
On Applications of Cell Phone Two-Dimensional Code in China M.D. Chen, L.L. Liu and B. Huang	922
The Design and Implementation of Cloud Service Based Customized Mobile Device Application System	
T. Žhu and Z. Gao	927
Keyword Aggregate Query Based on Query Template B. Zhu, F. Yuan and Y. Wang	932
A Middleware for Metadata Management Oriented Distributed Data Sharing J.F. An, F.M. Lu, H. Duan and Q.T. Zeng	940
Traffic Accident Reconstruction Technology Research X.L. Yang, P. Li, T. Lv and X.H. Liao	946
Light Illumination Information Extraction Method of High Dynamic Range Image X. Leng and J.H. Yang	952
Large-Scale Wire-Speed Multicast Switching Structure Based on Multipath Self-Routing Switching Structure and Implemented on FPGA K. Cui, H. Li, Z.P. Zhu and F.X. Chen	956
Research on Centrosymmetric Graph Based on DAM6416P	
C.S. Yang and G.J. Liu A Research of the Vertical Differentiation of Digital Content Products Basing on Numerical	962
Simulation Analysis Z.B. Zhang, L.Y. Hu and B. Wang	967
Design and Implementation of an SVG Editor for Power System K.H. Wu, B.H. Cheng, J.S. Wu and Y. Yuan	972
A Backward Compatible Multichannel Audio Compression Method X.F. Gao, G. Yang, J. Wang, X. Xie and J.M. Kuang	977
Study on Shell Sort of Logistics Unified Information System Based on Internet of Things X.Z. Lin	982
Research and Application on Information Resources Planning for University H. Lin, Y.J. Sun and B.H. Wang	988
Research and Application on Technical Implementation Architecture in University Informatization Planning	
H. Lin, Y.J. Sun and B.H. Wang	993
The Application of Network Anomaly Mining Technology in Campus Network Information Security	222
W. Bin, Z.C. Zhao and Y.C. Jiang A Validity Study on the Electronic Commerce Mode and Informatization Construction in	998
the Perspective of Value Chain H.Q. Shao, W. Bin and Y.C. Jiang	1003
Research and Application on Optimization of Multi-Thread Download Technology for Enhanced Search Engine	1000
Y.J. Sun, H. Lin and B.H. Wang Mail Filtering Algorithm Based on the Feedback Correction Probability Learning	1008
X.Y. Zou	1013
Design and Application of the Network Distance Teaching System B. Peng, X.Q. Hong and J.X. Peng	1017
Research and Implementation of Key RFID Technology in Poultry Products Traceability System V. I. Niv. V. Ov and H. Li	1021
X.J. Niu, Y. Qu and H. Li The Design and Implement of the Safety Production Management & Quality Trace System	1021
for Poultry X.J. Niu, Y.E. Duan and H. Li	1026

Research on a Sensor Network Communication Optimization Algorithm Y.J. Shi and L.N. Yu	1031
Study of Distributed Personalized Search Engine H. Zhang, Y.H. Ma, W.J. Ma and Z.X. Bao	1035
3D Visual Simulation on Nanchang Hangkong University X.N. Cheng, K. Sun and X.F. Zhang	1040
An OA-Based Integrated Information Management System Building for Marine Monitoring Business Processes D.Y. Jiang, T. Zhan and L. Qu	1045
Research on Eliminating the Influence of Cloud Shadow of TM Image L. Chen, Y.F. Zhou and H.L. Ma	1043
Research on DEM Modification and Production of Three-Dimensional Images in the Intersection Region of Seawater and Land L. Chen, Y.F. Zhou and J.F. Liu	1054
Heterogeneous Architecture for Ad Hoc Networks X.B. Wang	1059
Research in Serial Port Communication Mechanism Based on Android Mobile Z.R. Lei, X.L. Long and W.X. Liu	1063
Cross-Layer Design to Solve Cooperation Problem in Ad Hoc Network L. Li, W. Liu, H.Y. Chen and G.Z. Zhou	1067
Clarification Question Generation for Speech Recognition Error Recovery Using Monolingual SMT D. Yu	1072
Research on Management Information System for Construction Market Based on	1072
XMLHttp+XML Database Synchronization Z.J. Feng, J.C. Liu, L.M. Wang, H.L. Zhang and P. Zhang	1078
Design and Development of the Architecture Market Management Information System Z.J. Feng, J.C. Liu, L.M. Wang, C.L. Yan and P. Zhang	1084
Research and Development of Web-Based News Releasing System Q.F. Zhao and Y.F. Li	1088
A Development Strategy of M-Commerce against Mobile Internet M.Y. Shen, C.Y. Liu and B. Huang	1092
Study of Data Security Based on Cloud Computing H.H. Wang	1097
On Heterogeneous Database Integration under the Scope of Web Service and Java F.X. Meng, X.M. Wen and J.H. Li	1101
Design and Implementation of Encryption Scheme in Web-Based Examination System $Y.F.\ Li$	1106
Research and Development of Online Examination System Q.F. Zhao and Y.F. Li	1110
The Design and Realization of Library MIS Based on MVC J.H. Li, F.X. Meng and X.M. Wen	1114
Electricity, Heat and Gas Marketing Information System Based on SOA Architecture Z.G. Li, D.Q. Zhu, Q. Qi, Z.T. Fu and J.Y. He	1119
Cluster Trisecting Based Data Aggregation Scheme for Wireless Sensor Networks J.H. Guo and D.L. Chen	1126
Design and Implementation of Cold Rolling Database System in Web Data-Access System W. Teng and G.M. Wang	1131
Optimization for Web-Based Online Document Management W.Z. Cheng, Y. Yang, L. Zhang and L. Li	1135
The Realization of Math Score Query on the Wireless Internet G. Yang	1141
Web-Based Development Environment and its Application F. Pan and J. Han	1146
$\begin{tabular}{ll} \textbf{Analysis on Status of Two-Dimensional Code Development \& Prospects Prediction} \\ X.H.\ Lu,\ M.L.\ Yu\ and\ B.\ Huang \end{tabular}$	1152

Research and Development of Website Framework in Provincial Elaborate Course of Theoretical Mechanics	
Q.X. Xu, X.X. Hu and S. Lin	1158
Design and Implementation of Chinese Information Filtering System X.M. Zhang	1164
Research and Practice on Algorithm Analysis and Design Course Teaching Based on Online Judge	
D.Y. Zhao and Q.X. Xu	1168
The Application of Workflow Management System Based on Rules and Roles Q. Wang	1175
A New Integrated Front Platform of Financial Self-Service Equipment Based on ESB J. Xiao, J. Wu and J.G. Yang	1180
Research on Key Security Strategies of Cloud Computing D.Y. Zhao, Q.X. Xu and X.X. Hu	1185
Performance Evaluation of Optical Carrier Suppression Radio over Fiber System through Modulation Index Enhancement Z.X. Liu, X.G. Chen and C. Jiang	1190
Optimal Selection of Cyclic-Prefix and Sub-Carrier for OFDM Signal in Mobile Satellite Communications Channel	1170
B. Li, W. Zheng, S.B. Ren and J.J. Wu	1194
Design and Research on Collaborative Learning Program Based on Cloud-Services L.N. Huang, F.H. Liu and C.L. Liu	1199
Interference Modeling and Analysis for Inclined Projective Multiple Beams of GEO Satellite Communication Systems	
W. Zheng, B. Li, S.B. Ren, J. Chen and J.J. Wu	1204
Application of Cloud Storage in the Data Bank of Teaching Resources of Plane Design Specialty C.J. Wang	1210
A Software Protection Method Based on Computer Fingerprint and Asymmetric	1210
Encryption H.S. Tan and Y. Yang	1215
A Study on the System Architecture and Key Technologies of Telematics Based on 3G L.F. Tang and C.J. Wang	1220
Security Policy on Logistics Management Information System Based on Web L.N. Huang and F.H. Liu	1225
Design and Implementation of Parameterized Report Builder Component Y.C. Li	1230
Research on Modeling and Indexing of Trajectories of Moving Objects in Road Networks Y.L. Zheng	1234
Implementation of Mine Equipment Maintenance Management System Based on Web L.F. Tang and C.J. Wang	1240
Game Theory-Based Routing Algorithms for Wireless Multi-Hop Networks Z. Ren, S. Peng, H.J. Lei and J.B. Li	1244
Application of Ontology Technology in Agricultural Information Retrieval J.C. Kang and J.L. Gao	1249
Research and Application of Ontology in Resource Information Model of Tree Growth Management X.N. Liu, H.W. Song, Y. Li and J.C. Kang	1254
An Improved Method for AMR-WB Speech Codec C.L. Zhang, S.H. Zhao, H.Y. Xiao, J. Wang and J.M. Kuang	1259
WoT Based Context-Aware Middleware Design for Integrating Real-World Object to SNS H.L. Lu, J. Yang, C.H. Zhang and C. Cheng	1264
Design and Implementation of a Context-Aware Based Classroom Inquiring System F. Liu, Z. Xu, C.C. Zhang, H.J. Lu and X.X. Li	1270
Data Storage Technology and its Development Based on Cloud Computing L.N. Huang and F.H. Liu	1275
An Architecture for Unstructured Data Management Y.H. Lin and X.L. Lin	1280

The Development and Application of Virtual System of Physiological Function Experiments Based on Networks	
D.L. Wang, K. Fu, H.F. Tang, X.D. Ren, Q.F. Meng and L.R. Teng	1285
Analysis of Virtual Storage Technology and its Application in the Library D.X. Lu, Y.X. Niu and L.Q. Zou	1289
Distributed Computing Design Methods for Multicore Application Programming Q. Yu, T. Li, Z.W. Xie, N. Zhao and Y. Lin	1295
XML Retrieval with Results Clustering on Android P.F. Liu, Y.H. Chen, W.J. Xie and Q.Y. Hu	1300
WS-SIM: A Toolkit for Modeling and Simulation of Service Composition F. Zhang	1304
Short Text Similarity Computing Method towards Agriculture Question and Answering Systems	
B.J. Sun, Z.C. Liang, Q.T. Zeng, H. Zhao, W.J. Ni and H. Duan	1309
JPEG2000 Image Compression Method Based on GPGPU W.L. Wang	1314
Research on Agile Equipment Support Supply Chain Application Framework Structure Based on Information System	1220
S.Y. Zhang and S.Z. Guo The Personal on Solvi Pletform Application	1320
The Research on Sakai Platform Application G. Zhao and H.Y. Huang	1325
Research on Hall for Workshop of Meta-Synthetic Engineering for Demonstration on Weapon Equipment System of System J. Guo, D.S. Liu and Q. Guo	1329
Research on the Method of Code Migration from JSP to ASP.NETMing M. Xu, H.Q. Zhang, Q. Zhou and Z. Sheng	1334
A General Threshold Signature Scheme Based on Elliptic Curve Y.L. Shang, X.J. Wang, Y.J. Li and Y.F. Zhang	1339
Design and Implementation of Mongolian Wordnet Management Platform Hasi and E.B. Tang	1344
A Modified Fuzzy C-Means Algorithm Brain MR Images Segmentation with Bias Field Compensation X.L. Liu, Y.T. Guo, J. Kong and J.Z. Wang	1349
Research on UHV Substation Construction Management System Based on Multimedia	1317
Integration Y. Lu, G.J. Gong, J. Li, B. Qi and X.J. Liu	1356
A Verifiable Visual Cryptography Scheme Using Neural Networks Y.Q. Deng and G. Song	1361
Research on Logistics Distribution Center Location Based on Improved Immune Algorithm H. Li, X.Y. Liu, J.P. Zhang and Y.L. Yu	1366
Slotting Optimization Algorithm of the Stereo Warehouse J.H. Wu, T.D. Qin, J. Chen, H.P. Si, K.Y. Lin, Q. Zhou and C.B. Zhang	1371
VRViewer: A Cloud-Based Virtual Reality Platform Q.Y. Huo, H.C. Zhang, H. Ma, Z. Lu and L. Bai	1377
Background Extraction and Snow Remove Form Video Y.T. Ren, Y.C. Zhang and K. Zhu	1382
Efficient Data Structures for Range Selections Problem X.D. Wang and J. Tian	1387
Estimation Algorithm of Two-Dimensional Direction of Arrival Based on Rectangle Array of Distributed Source	
H. Yao and Y. Wu	1392
An Improved Personalized Recommendation System Research X.Y. Li and Q.S. Li	1398
Dynamic Integration System for Heterogeneous Database Based on S2SH Z.Y. Zhang, Z.Q. Zhao and Z. Cao	1403
Data Extraction Method for Heterogeneous Database Based on EJB Z.Y. Zhang, B.C. Sun and Z. Cao	1408

System Modeling for Opportunistic Network-Coded Cooperative Multicast Transmission in Clustered Wireless Sensor Networks Y. Zhu, J. Gao, L. Zhang and S.L. Sun	1413
Outage Probability Analysis for Opportunistic Network-Coded Cooperative Multicast Transmission in Clustered Wireless Sensor Networks Y. Zhu, J. Gao, X.Q. Zhang and F. Wang	1418
The Patient Admission Scheduling of an Ophthalmic Hospital Using Genetic Algorithm L.M. Zhang, H.Y. Chang and R.T. Xu	1423
A Comparative Study of Two Alternative Methods for the Path-Based Logit Stochastic User Equilibrium Problem B.J. Zhou, X.H. Li and J. He	1433
Research on Construction of the Teaching Quality Guarantee System of Vocational Colleges Based on Digital Campus X.H. Liu, M.Y. Yue and Y.X. Lang	1437
Digital Campus Construction and Key Element Analysis M.Y. Yue, X.H. Liu and Y.X. Lang	1441
Design of Marine Radar Signal Generator X.J. Tong, J.L. Pang, F.Q. Fu and Y.L. Yuan	1446
Research and Improvement of the Hot Small File Storage Performance under HDFS B. Zhang, Y.Y. Zuo and Z.C. Zhang	1450
The Comparative Study on Flow Field in Sensitive Element of Fluidic Gyroscope J. Tang, L.H. Piao, B.L. Zhang and J.B. Chen	1455
Porting Java Virtual Machine in Embedded Systems Based on Qt4 J. Lin, H. Ni, H. Zhang and P. Sun	1459
The Correction Algorithm Research of Inclination Paper Currency Image H.H. Liu and X.H. Hou	1464
An Information Security Risk Assessment Framework for Cloud Computing H. Chen	1469
Advanced HFC Access Network Design for Switched Digital Video Service J. Xu, H. Ni, H.J. Deng and L. Liu	1474
The Application of Vector Quantization Algorithm in Hyperspectral Image Compression X.J. Zhao and Y.F. Jing	1479
The Instability of a Four-Vortex Wake System in a Water Towing Tank Y. He, J.W. Yang and F. Bao	1484
Implementation of Ontology Extraction Oriented to Non-Normalized Database S.C. Cui, Y. Li and Y.B. Wang	1489
Long Tube Hole Straightness Data Processing Method Y.S. Liu	1494
The Research of Power Distribution and Utilization Business Model Based on the Comprehensive Evaluation Model	1.400
X. Chen, G.J. Gong and G. Xu Human Resource Management Information System Based on SOA	1498
H.F. Xu and W. Chen Research on Encryption Method of the GML Spatial Data in Geographic Information	1502
Sharing System G.S. Li	1506
Research on Typical Wireless Hoc Routings for Vehicular Network Y.L. Liu, Y.R. Chen, Y. Zhou and X.J. Gao	1511
Modeling of Automobile Stamping Parts Management System Driven by Use Case C.S. Han and Z.L. Cheng	1517
Research and Application of Cloud Computing Technology in Agricultural Information Resources Sharing Service J. Ye, G.F. Chen and G.W. Zeng	1522
A New Improved Data Acquisition System for Electrical Capacitance Tomography H. Zhang, D. Ren and L.M. Du	1527
Security Management of Movable Storage Device Based on File System W.F. Wang and H.Y. Liu	1532

Study on Properties of Expanded Sturmian Sequences L.H. Sun, E.L. Zhao and Y.L. Sun	1536
Study on Textual Data Sources Based Real-Time ETL W. Qi and J. Song	1541
On Computer Security in E-Commerce W.F. Zhang and C.H. Zhai	1547
Research on Image Color Balancing Based on Illumination Correction W.B. Sun, H.Y. Tang, D.B. Zhang and Y. Chang	1551
Design and Implementation of E-Government Platform Based on Web GIS and Cloud Computing	
Y.Q. Feng, W.F. Zheng, P. Liu and Y.N. Jia	1556
The Exploration of Computer Assisted Language Learning and the Cultivation of Fresh Talents C.L. Liu and J.W. Liu	1561
NOVA:A P2P-Cloud Vod System for IPTV with Collaborative Pre-Deployment Module Based on Recommendation Scheme	
J. Song, H.J. Deng and J.L. You Research on 2-D Integer SDCT Algorithm	1566
H.Y. Tang, W.B. Sun, D.B. Zhang and Y. Chang	1571
A Look into Content-Based Image Search Engine System M. Guo	1576
Research of E-Government Security Plan System R.Y. Chen and X.F. Fu	1580
Web Data Extraction and Integration in Domain G. Li, Z.Y. Han, Z.X. Chen, Z.Y. Li and P. Sun	1585
Web Data Extraction Based on Tag Path Clustering G. Li, C. Chen, Z.Y. Li, Z.Y. Han and P. Sun	1590
Research on Consistency Verification of Semantic Business Process Model Based on SWRL P. Tan, F. He and C.M. Yan	1595
Comparative Study on Application of Information Visualization in Knowledge Organization	
B. Shi and L.C. Zhao	1600
Design on the Network Model of Cloud Computing Based on P2P H.M. Su and L. Wang	1605
Research of BPMNO-Based Business Process Model in Logistics Warehousing Field C.M. Yan, F. He and T. Zhang	1610
Research on Technical Support Management Information System of RFID-Based Some Certain Equipment	
Q. Li, X.N. Ye and W. Yang The Study of Goal Enterprise Ability for Technology Innovation Record on CART Position	1615
The Study of Coal Enterprise Ability for Technology Innovation Based on CART Decision Tree	1.620
X.J. Zhao and Y. Yang The Mechanism of Memory Allocation and Recovery in JCVM	1620
W.Q. Li, D.P. Li and Y.H. Mao	1625
Study on the Design and Evaluation of the Logistics Information System for the Small-and Medium-Sized Enterprises Z. Li and Y. Li	1630
Congestion Analysis on Urban Traffic Network J.L. Wang and H.B. Lai	1635
Research on Simulation Credibility of Combat Capability X.H. He, Y.N. Ma and Q. Wang	1639
The Application of the SSHDWR+AJAX Combination Frame in the Human Resources	
Management System Y.Z. Li and C.F. Ye	1643
Multiple Factors Integration Based Text Alignment for Medical Database H.L. Wu, Y.Y. Liu, C.J. Dong and K. Wang	1648
An Exploration of Information Push Technologies in E-Commerce H.L. Shen	1652

Remote Information Publishing System of Embedded Electric Power Parameter Recorder Equipment	
L. Chen and R. Zhong	1656
Research on Privacy Preserving Data Mining Association Rules Protocol X.M. Zhu	1661
The Research and Realization of QOS for Video Surveillance X. Yang	1665
The Reliability Measure of Disconnected Network Based on Surviving Edges H.J. Meng, Z.C. Wang and Y.J. Li	1669
A Improved Algorithm of Wavelet Image De-Noising Based on Threshold Function Z.X. Lin	1674
Research and Numerical Simulation of Heat Transfer Problems in the Industrial Production	
D.M. Li, X.C. Wang, L.N. Shi and B.C. Qu	1679
A New Wavelet-Based Compressive Sensing for Image Compression W. Jiang and J.J. Yang	1684
The Advanced "Rich-Client" Method Based on DOM for the Dynamic and Configurable Web Application X. Xia, Z.S. Li and Y.X. Fan	1691
Scientific Research Project Cost Estimating Method and System Based on Improved BP Neural Network	1091
Y.L. Wang, G.X. Wang and Y. Yan	1696
An Improved MapReduce Model for Computation-Intensive Task H.L. Sun	1701
The Transmission of Thermal Image with UDP for Reliability Realization in LAN Z.G. Liu, H. Zeng and S.N. Wang	1706
Power Grid Risk Evaluation Model of Empty Mine Mined-Out Area Based on BP Neural	
Network G.F. Yang, J.K. Zhao, T.S. Li and J. Zhou	1710
Design and Implementation of Backup Devices Management System H.B. Song, Y. Wang, K. Li, M.L. Liu and B.Z. Ma	1715
Research on a Vessel Light Communication System D.J. Hu and M. Liu	1720
Research on the Performance of Sub-Band STAP for Wideband Interference Suppression H.K. Wei, P.B. Wang, J.X. Yin and C.L. Zhang	1724
Construction Method of λ-Concept Lattice in Fuzzy Formal Context Y.F. Yang, D.M. Li and W.J. Zhao	1729
Research and Design of UPnP Protocol in Media Sharing System H. Zeng, Z.L. Yang and P. Ren	1734
Data Handling of Digital Forensics Cloud Computing G. Zeng	1739
Research on Internet Macroscopic Topology Structure S.J. Guan and H. Zhao	1744
Implementation of Video Transcoding Client Based on FFMPEG H. Zeng and Y. Fang	1748
Application of the Hilbert_Huang Transform and Wavelet Transform in the EEG Processing	
G.X. Zhang, P.D. Wu and M.L. Huang	1753
Semantic Oriented Knowledge Processing Model L. Zhang	1758
The Messaging Mechanism Based on Multi-Level Feedback Queue Scheduling Algorithm T.S. Li, J.H. Xu and H. Yu	1763
The Modeling and Rendering of the Waves M. Li	1766
The Modelling by Parameter Identification and Online Simulation in Refining J. Chen	1769
Research and Design of Open and Autonomous Learning System Based on HTML5 C.F. Cao and G.S. Li	1774

Research on the Developmental Situation to Software Development Method Y. Gao and X.Z. Feng	1779
Connection Function and its Posture Analysis of Risk Preference Y.F. Yang, H.C. Zhang and L.N. Shi	1784
Excogitation and Realization of Remote Chess Play System Based on Augmented Reality H.B. Wang and L.N. Cui	1788
The Wireless Application of Spread-Spectrum OFDM Technology in the Internet of Things H.C. Liao	1793
The Research of Digital Sandbox System H.B. Wang and J.F. Hou	1798
Research of Adults' M-Learning Based on Mobile Phone Y.K. Zhang and C.M. Wei	1803
Visual Simulation of Shells Exploding in Virtual Environment G. Lin and D.W. Jiang	1809
The Study & Application of Information System Based on Component Model and UML Y.W. Xia	1814
Learning a Discriminative Isotropic Space from Labeled and Unlabeled Data Y.D. Liu and J. Zhang	1819
Design and Realization of Digital Urban Planning Spatial Database Z.Y. Yang, J.L. Yang, X.G. Cao, X.H. Li, X. Liang and C.L. Huo	1824
Reorganization of Web Site Structure Using Web Logs B. Song and S.B. Chen	1828
SAR Image Segmentation Based on Bayesian Network J.G. Zhang, Y.X. Li and P. Chen	1835
Application of Cloud Computing in Walling Management B. Li	1840
The Design of Online Examination System Based on UML & Component Y.W. Xia	1845
A Multicast Routing Algorithm with Cost, Delay and Bandwidth Constraints Y.C. Li and G.F. Kuang	1850
Deep Web Data Integration with near Duplicate Free M.J. Li, L.Y. Jia, J.G. You, J.M. Ding and H.H. Zhou	1855
The Research & Application of Network Learning Platform Based on the Component Composition	1060
Y.W. Xia Cyber Computing: From Plant Ecology to Cyber Ecology	1860
Z.Y. Xia and Z. Bu A Graphic Expression CRC Algorithm Based on Bytes Operation	1865
J.M. Ma, K.S. Cai and X.J. Li Hiding Sensitive Association Rules by Adjusting Support	1870
H. Wang Research on IETM System for Certain Equipment	1875
Y.H. Liu, W.L. Li and X.J. Song Multi-Path Relay Selection Based on Radio and Television Business	1879
C.Y. Zhang and Y.D. Zhao A Scheduler Designed for the P2P Live Streaming System L. Kei, H. Husi, W.M. Wang and O. Ma	1883
L. Kai, H. Huai, W.M. Wang and Q. Ma Compressed Sensing Based Blind Carrier Frequency Offset Estimation for OFDM System	1889
G. Yang, H.X. Yu and X.F. Zhang Cross-Media Retrieval Method Based on Space Mapping	1894
X. Xu and S.M. Xi Network Teaching System Trial Based on Cloud Computing Y.W. Xia	1898 1903
Research on Supply Chain Cloud Knowledge Service Mode Y.Q. Lu, C. Li and R.Y. Sun	1903
Analysis of Encoding Methods Contributing to the Payload of Steganography H.J. Luo, H.C. Xu and J.H. Sun	1908

HChord: A Hierarchical Chord Model L. Yan and Y.F. Li	1916
Construction and Research of Cloud Platform of College Computer Room Based on Private Cloud Computing Mode	
C. Feng	1921
Randon and Ridgelet Transformation Applicaton in Image Digital Watermark Y.J. Li and Y.F. Li	1925
Online Payment Security System Y.C. Liu	1930
Design and Implementation of Management Information System Based on SSH Architecture for Departments of Colleges and Universities H. Zhang, H.B. Li and H.J. Liu	1933
The Research on Hand Gestures Segmentation Based on Skin Color Detection Combination with Dynamic Threshold Y.T. Wang and F.J. Shao	1938
Building Mobile News Aggregation Application with Yahoo Pipes H.B. Wang and Z.H. Wang	1943
Research of Tourist Attractions Real-Time Query System Based on Mobile GIS J.P. Dai	1948
Architecture and Key Technologies of Cloud Computing L.Y. Xiao, Z. Wang, R. Wang and H.N. Wang	1953
Load Balancing Algorithm Research for Virtual Machine Resources in Cloud Environment Y.Q. Fang, J. Zheng and J.W. Ge	1957
Analysis and Research of Modulation Recognition Algorithm in Satellite Communications R. Bin, Z. Ping, C. Ying and S. Lei	1961
Research on Optimization Algorithm of Reconfigurable Logical Operation Resource	
Configuration H.Y. Li and F. Gao	1968
The Important Position of Computer Aided Design in Architectural Creation H.L. Guo	1973
Joint Subcarrier and Power Allocation for Uplink Spectrum Sharing in Cognitive OFDM Networks: A Waterfilling Based Approach Y.H. Ma, B. Zhang, W. Zhang and M.X. Xu	1979
A Research and Implement of Data Storage and Management Method Based on the Embedded MCU Data Flash J.H. Ma, Z.X. Wang, G. Wang, Y.Y. Liu and Y.Q. Li	1984
The Application of WiFi Technology in IPTV STB H. Zeng, P. Ren and Z.L. Yang	1989
Discrimination of the Lettuce Leaf Nitrogen Level Based on the BP Neural Network and the Spectral Information	
J. Sun, X.M. Jin, Z.G. Dai, M.X. Zhang, X.C. Shen and W.X. Lv	1993
Development of Web-Based Experiment for Integer Programming Using Java Applet T.J. Shi and X.S. Ma	1998
A New Complicated Report Generation Scheme Base on XML and MS Word in B/S Model B. Li	2003
The Research and Design of SOA-Based Systems J.J. Wang	2008
MARM: Mobile Augmented Reality Map Based on Wireless GIS L. Kai, N. Rui, W.M. Wang and Q. Ma	2014
Design of Mobile Blended Learning System Based on Context-Aware J. Zhang, L.W. Zhang and T.Y. Zang	2019
Analysis of Image Encryption Algorithm Based on Chaotic Signal Y.C. Zhao and J. Liu	2024
Application and Development of the Embedded System on Linux J. Liu and Y.C. Zhao	2030
CloudDICOM: A Large-Scale Online Storage and Sharing System for DICOM Images L.J. Liu and Q.S. Huang	2037

Data Analysis and Suggestions of Supply and Marketing Cooperatives Industry in the Agricultural and Sideline Products Deep Management S. Cao	2042
The Building of User Model of Personalized Learning Teaching System Based on Data Mining W.Y. Rui and H.Y. Mi	2047
Concrete Shrinkage and Creep Effect Prediction Model and the Influence Factors Analysis R.F. Duan, X.F. Huang and H. Zhang	2051
Research on Recompilation and Rebuilding of Batch Execution Plain SQL Server 2012 A.W. Li	2055
Identification of Pesticide Residues of Lettuce Leaves Based on LVQ Neural Network J. Sun, L. Dong, X.M. Jin, M. Fang, M.X. Zhang and W.X. Lv	2059
Synset Construction - Extending from Concepts Association of HNC to Lexical Semantic Web	2064
L. Feng and Y.Q. Zhang On Preservation of the Endangered Languages in Information Era: A Case Study of Tujia Language C.H. Chen and L.H. Fang	2064
A Speech Signal Logarithmic Spectrum Amplitude Envelope Algorithm Analysis Y. Ma and F. Wei	2072
Design and Development of the Virtual Acupuncture Training Using WebGL Y.L. Huang and M.Q. Zhou	2076
A Syntactic, Semantic and Cognitive Analysis of Existential Sentence Oriented to Language Information Processing - Taking "V-Construction" as an Example W.D. Xiong	2081
On the Implementation of Cross-Layer Structure for the Interactive Teaching in Information System Course Z. Li and Y. Li	2086
On the Information Sharing Model for Supply Chain Based on Stackelberg Game Theory Z. Li and Y. Li	2090
The Design & Application of Instrument Circulation System Based on WIFI and QR Code H.Y. He, Y.G. Luo and X.P. Liu	2095
Research in Surface-Wave Sustained Plasma Fluorescent Lamps J. Li and K. Wang	2099
Design and Implementation of Intelligent Web Platform for Massive DataBase Y.L. Luo	2103
Mine Production 3D Remote Virtual Management System Based on Internet of Things S.A. Du, J.W. An, L.J. Wang and X.W. Zhou	2107
Research and Development on Centrifugal Ventilator Selection Software T. He, Y.X. Sun and L. Wang	2111
Model-Based Design of UAV Autopilot Software M. Zuo, Y. Liu, Y. Qian, X.W. Hu, X.C. Zhao and J.H. Wang	2115
A Method of E-Service Workflow Composition Based on Linear Logic Inference Rules S. Zhou and F.Y. Zhang	2120
Enabling Zigbee Communications in Android Devices S.Q. Hu, Y. Fu, C.D. She and H. Yao	2125
Scheduling of Periodic Tasks with Data Dependency on Multiprocessors J.L. Wang	2131
CQI Prediction for Shadow Fading in LTE-Compatible GEO Mobile Satellite Communications System Y.D. Zheng, M.K. Dong, Y. Jin and J.J. Wu	2137
Kalman/Particle Filter for Integrated Navigation System Z. Jiao and R. Zhang	2142
ES-TMP: Inter-Domain Egress Selection Based on Traffic Migration Prediction D. Zhao, X.F. Hu and C.Q. Wu	2147
A Retrieval Sorting Approach for Online Forums Based on Domain Topics Y.Y. Zhang	2152

A Data Collecting and Caching Mechanism for Gateway Middleware in the Web of Things X.C. Chang, C.H. Zhang and L. Sun	2157
Research of Unified Authentication System Based on LDAP J.W. Ming	2163
A Description and Transformation Approach for Model Driven Architecture L. Wang	2168
Non-Uniform Cluster-Based Mobile Data Collector Routing Protocol in Wireless Sensor Networks	
X.L. Zhou and S. Chen	2173
A π -Calculus-Based Complaint Model for a User-Interactive Question Answering System Y.C. Li, H. Duan, Q.T. Zeng and F.M. Lu	2178
A Design for Water Surface Communication System of Ultra Short Base Line Positioning System	
F.P. Qiu, H.J. Wan and X.W. Wang	2184
Architecture and Modeling for Virtual Test Bed Y. Chen and Q. Lin	2188
Research on the Third-Order Software Phase Locked Loop for Carrier Tracking L.Y. Zhang, H.Y. Liu and H.Y. Du	2192
Dynamic Evolution of Requirement Goal Deployed on Network Environment Y. Liu and J.Z. Wu	2197
Research on DB2 Performance Testing Automation L. Zhuang, Z. Gao, H. Wu, C.X. Yang and M. Zheng	2204
Design of Dual-Mode RFID Reader Y.L. Zhang, T.T. Wang and C.B. Shang	2209
An Efficient Routing Algorithm for Opportunistic Networks Based on Network Coding Y.K. Yao, Z.H. Liu, Z. Ren and Y.D. Wen	2214
Runtime-Based Behavior Dynamic Analysis System for Android Malware Detection L.X. Min and Q.H. Cao	2220
Design and Realization of Simulation Environment of Embedded Software and Hardware	
Intergration Based on GEF B. Geng and Q.H. Cao	2226
Application of Link Prediction in Temporal Networks H.H. Xu and L.J. Zhang	2231
Correlation Trust Authentication Model for Peer-to-Peer Networks W. Cheng and Z.H. Tan	2237
E-Forensics Application Research in the Agricultural Industry Regulator Z.K. Chen and Z.L. Piao	2243
Model Comparison and Data Interface Program Development between BPA and PSS/E P. Li, P. Tian, H.Z. Liu and X. Wei	2249
Electronic Toll Collection System Based on ZigBee_MCU H.Z. Li, T. Yang and C.L. Xin	2255
An Interactive Distribution Network Reconfiguration Method in GridLAB-D/MATLAB	
Environment X.Q. Wang, Y. Zeng, H.R. Zhang, G.Y. Liu and Z.Y. Yang	2260
Research of Assisted Testing Method Based on Software Testability and Pattern F. Xie and Y.C. Wang	2265
A Book Positioning System Based on Wi-Fi and RFID Technology L. Li and K.J. Wu	2270
A New Energy-Efficient On-Demand Routing Protocol for Green Wireless Mesh Networks Y.P. Yu, Y.H. Peng, L. Guo and M. Song	2275
Target Tracking Based Adaptive Particle Filter in Binary Wireless Sensor Networks L.D. Su, M.Y. Zhai and Z.Y. Zhu	2281
An Efficient Sleeping Scheduling for Save Energy Consumption in Wireless Sensor Networks	2200
S.G. Jia, L.P. Lu, L.D. Su, G.L. Xing and M.Y. Zhai Clobal Synchronization of Moving Agent Networks with Time Verying Topological	2288
Global Synchronization of Moving Agent Networks with Time-Varying Topological Structure L.F. Wang, Z. Kong and X.G. Wang	2294
· · · · · · · · · · · · · · · · · · ·	

A Novel Simplified Limit-1 Polling Communication System J. Lu, H.W. Ding, Y.F. Zhao and M. He	2300
The Algebraic Semantics of EPDL at Activity Level and Verification J.Z. Liu, L.X. Wang, T. Li, Q. Yu, N. Zhao and F.L. Hang	2306
Algebraic Semantics-Based Verification for EPDL at Task Level J.Z. Liu, L.X. Wang, W. Wang, X. Zhang, Y. Qian and R. Zhu	2311
An Android Terminal in TelosB Wireless Sensor Networks S.Q. Hu, X.L. Zhang, H. Yao and C.D. She	2316
Research and Application of Rule Engine in Scheduled Outage Management B. Wu and Z.M. Guo	2321
Distributed Rateless Codes Based on Random Matrices Y.L. Xiao and H.B. Jiang	2326
A Middleware-Based Network Architecture for the Web of Things J. Sha and J. Yang	2332
Self-Adapting Acquisition of Sensor Data in Mobile Environment C. Wang, C.H. Zhang and J. Yang	2339
The Application of Electronic Map in Wireless Positioning System Q.H. Wang, W.Z. Wang, D. Li and L. Chang	2345
Effect of Modulation Index of Mach-Zehnder Modulator on Single Sideband Radio over Fiber System	
C. Jiang, X.G. Chen and Z.X. Liu	2350
Branch Unit for Seafloor Observatory Network Y.B. Feng, Z.G. Li and X.H. Wang	2354
Visual Simulation of Node Localization for WSN Based on Vega Prime Q.H. Wang, L. Chang, W.Z. Wang and J. Li	2360
Feasibility Analysis of Lightweight Conversion for Pro/E 3-D Models in Third-Party Formats Z. Wang, Z. Pi and B. Zhao	2365
Study on the Agricultural Internet of Things Key Technology of the Intelligent Control of Sunlight Greenhouse Complex System B.G. Zheng	2369
Evaluating Network Security Based on Attack Graph X. Gao, X.Q. Xu and M. Wang	2374
Design and Implementation of the Critical Functions in IETM System K. Li, Y. Wang, M.L. Liu, X.Z. Wei, X.X. Liu and L. Li	2379
Batch Job Based Auto-Scaling System on Cloud Computing Platform Y.Y. Guo, J. Li, X.C. Liu and W.W. Wang	2386
Study on Visualized Network Security Test Platform H.Y. Liu and W.F. Wang	2391
Artificial Neural Networks Identification of Lithology-Types in Complex Carbonate from	2391
Well Logs, Block K, in Uzbekistan Y.P. Lin, T.Z. Wu, X.F. Sheng, C.S. Wang and T.W. Zhou	2396
Research on Key Technologies in Multi-Robotic Spread Spectrum Communication System Y.H. Zhu, Q. Cai and X.L. Huang	2401
Design and Implementation of Linux PCIe Driver Based on FPGA Z.J. Yin, H. Zhang and Q. Liu	2406
Research and Implementation of Network Fault Location System Based on Event	
Correlation J. Ling, Q.P. Zhang and W.M. Huang	2410
Intelligent Evaluation System of Animation Works Based on ELP J.L. Zhao	2416
Development of the Data Driven 3D Standard Part Library Based on Pro/E J. Du and Y. Cao	2422
Analysis of Web Attack and Design of Defense System X.J. Zhu and Y.G. Lin	2428
Generation Technology of Test Cases of Object-Oriented Software J. Chen	2433

Neural Network Pattern Recognition and its Application H. Xu, J.G. Lai, J.Y. Liu, N. Cao and J. Zhao	2438
An Intelligent Traffic Lights Schedule Approach Using WSNs B.B. Zhou, P. Xu, L.Y. Chen, J.J. Liu and G.Y. Dai	2443
Optimization of Spectrum Sensing Period in Cognitive Radio Networks Based on GA Y. Liu, Y. Cui and O. Li	2448
Development of 3G Smart Meter System Based on Internet of Things J.M. Lan, C.Y. Fu and J.W. Ju	2452
System Reliability Evaluation Using Bayesian Networks L.Y. Liu, Q. Sun and Y. Wang	2457
E. I. Elu, Q. Sull and I. Wang	2437
Chapter 4: Data Processing and Applied Computational Methods and Algorithms	
A Corpus-Based Study of Chunks in Applied Linguistics Research Articles G.S. Xiao and B.X. Cheng	2465
Geo ^X /G/1/N M. Zhang	2470
The Application and Research of Personalized Network Teaching Resources Database Based on Data Mining	
G.Y. Wang	2475
Sparse Recovery Using Conjugate Gradient and Orthogonal Triangular Decomposition X.H. Peng, S.X. Chen and X.Y. Liu	2479
Semantic Map Model and Construction of Synset Z.S. Zhang	2484
The Research of Wine Quality Evaluation Based on Multiple Linear Regression H.H. Liu, W.L. Ji, P. Zhang and C.W. Yao	2489
The Realization of MP3 Player System Based on Mediastreamer2 Framework H.Z. Lin, K.Q. Wu and L.F. Huang	2494
The Application of Rank Related Coefficient J.C. Zhao and Z.S. Hui	2499
A Number of Issues to Need Focused to Research in Developmental Process of Software Development Method Y. Gao and X.Z. Feng	2503
Profit and Loss Calculation Model of Data Synchronization Based on Multi-Link X. Yu	2508
The Realization of Virtual Computer Equipment Experiment Based on VRML	
Q.H. Ye Research on Natural Disaster Risk Assessment Index System for Power Grid G.F. Yang, J.K. Zhao, T.S. Li and J. Zhou	25142518
QBARM: A Queue Theory-Based Adaptive Resource Usage Model S.F. Shang, J.H. Huo and Z. Zhang	2523
The Projectively Flat Conditions of One Special Class (α, β)-Metrics W.J. Zhao, Y. Yan, L.N. Shi and B.C. Qu	2528
Multi-Dimensional Comprehensive Link Stability Model in Ad Hoc Network G.Y. Chang, H.C. Yang and H.H. Yin	2533
Feasibility Analysis of the Confirmation of Self-Created Goodwill J.P. Xie	2538
Enlightenment from Australian Network Security Plan to Chinese Information Security J.H. Cheng, R. Zhao and C. Jin	2542
Sample Size on the Impact of Imbalance Learning W.M. Zhi, H.P. Guo and M. Fan	2547
Maximum Profit Model for Longitudinal Multi-Level Inventory Structure Y.M. Zhou, Z.G. Wang, Y.Y. Gao, Q. Zhang, M.Z. Shi, Y. Yu and X.Y. Li	2552
Fuzzy Evaluation Expert System for Undergraduate Comprehensive Quality Based on	
Agent C.H. Zhou, Y.C. Wang and C.X. Chen	2557

The Construction for Generalized Mandelbrot Sets of the Frieze Group F.Y. Wang, L.M. Du and Z.Y. Han	2562
Mathematic Description of the Spiral Wooden Staircase Handrail Elbow	2302
G.L. Xia, Y. Ma, Y.C. Jiang, F. Yu and H.J. Ding	2567
The Computer-Aided Teaching Design of Writing a Memoir G.L. Chen	2573
The Computer-Aided College English Vocabulary Learning and Instruction X. Zou	2578
A Deep Web Data Extraction and Application System Based on Cloud Technology Z.Y. Han, F.Y. Wang, P. Sun and Z.Y. Li	2583
Generalized Hamming Weights of Cyclic Codes from Algebraic Function Fields W.B. Hu and X.H. Fang	2588
Analysis and Design of the JCVM Runtime Environment Y.H. Mao and D.P. Li	2593
Research on Organization Tacit Knowledge Transferring: An Evolutionary Game Theoretic Analysis D. Li	2597
Research on Multi-Attribute Decision Making with Normal Distribution Weight	2371
X.S. Zhao, H.X. Wang and W.F. Sun	2602
Mining Closed Weighed Frequent Patterns from a Sliding Window over Data Stream C.C. Ge and X.F. Fu	2606
Aspect-Oriented Programming and Modeling Based on UML Y.H. Chu and J.L. Yu	2610
Convergence of the Preconditioned AOR Method for an H-Matrix J.J. Liu	2615
The Improved Genetic Algorithms Apply on Parameter Estimation of Two Parameters Logistic Model on Item Response Theory	
P.D. Du and Y.H. Chu	2620
A Research on Genetic Algorithms Based on Test Paper Composition of Item Response Theory T. Sun and Y.H. Chu	2625
Comparison Results on Preconditioned AOR-Type Iterative Method for M-Matrices T. Zhou and H.F. Cui	2629
Community Evolution in Dynamic Social Networks G. Wang, Y.L. Lei, C.J. Wang and S.J. Qiao	2634
Development Trend Analysis on Corn Futures Price in our Country by Multiple Regression	
Model J.Y. Chen and P.Y. Xi	2639
On the First-Order Markov Model for the PLC Fading Channel W. Shen	2644
A Novel Data Access Scheme in Cloud Computing	2044
X.W. Gao, Z.M. Jiang and R. Jiang	2649
Software Simulation Method for Digital if GNSS Signal X.Y. Wu, J.R. Liu, H. Gong and G. Ou	2655
A New Efficient Variant of the Batch RSA Cryptosystem M.H. Gao and H.Y. Huang	2660
Fuzzy Comprehensive Evaluation Based on Set Pair Analysis of the Rural Power Grid Planning Project	2662
J.X. Qi, S.L. Liu and J.L. Wang Study on Post-Evaluation for the Power Transmission and Transformation Project Based	2663
on AHP-Fuzzy Comprehensive J.X. Qi, S.L. Liu and Z.Y. Sun	2668
Credibility Analysis of a Tether Net Simulation System	
Q. Lin and Y. Chen	2673
The Implementation of Serial Communication CSerial the Port Class N.N. Wen, S.F. Gong and Y.J. Wang	2678
The Globally Linear Embedding Algorithm J.Y. Xia and S.B. Lian	2682

Network Modeling and Performance Analysis under Time-Varying Channel and General Arrival of M2M Services	2605
F. Li, X.F. Chi, J.S. Zhang and X.D. Li Improvements Based on the IPSec VPN Security	2687
Y.Q. Fan, L. Lv, M.L. Liu and F. Xie	2693
On Transformation from the Thesaurus into Domain Ontology P. Li and Y. Li	2698
A Constructive Heuristic for Two-Dimensional Bin Packing B.H. Wang, J.M. Liu, Y. Yue and M. Keech	2705
Security Issues and Challenges in Event-Driven Wireless Sensor Networks L.L. Liang, Q. Zou, G. Yang and L. Shi	2711
A Method on Single Source Publishing for Music in DITA X.H. Liu, Y.M. Shi, P. Liu and N. Li	2717
Formalization of Emotions with Intensity R. Qiao and H. He	2724
Modelling and Analysis of River Networks Based on Complex Networks Theory X.W. Wu, L. Li and Y.G. Qu	2728
Analysis of the Multi-Channel MAC Protocols in Wireless Networks C.G. Shi, H.T. Zhao, Y. Tang and Y.F. Zhou	2734
Improved Additive Operator Splitting Algorithms for Basket Option Pricing Model X.Z. Yang and G.X. Zhou	2739
A New Parallel Difference Numerical Method for the Payment of Dividend Black-Scholes Equation	
X.Z. Yang and F. Zhang	2744
A Weight-Based Road Impedance Function Model J. Dong and G.J. Shen	2750
An Efficient Difference Algorithm for Black-Scholes Equation with Payment of Dividend	
L.F. Wu and X.Z. Yang	2756
Object-Oriented Programming Hardware/Software HSupports and Comparison J.Y. Li, Y.H. Zhang, Z.K. Li and A.S. Fong	2762
Study of Multi-Project Conflicts by IGA Based on the Improvement of Fitness Function Z.F. Lv and X.D. Ma	2768
Technological Alliance Networks Analysis under Complex Network Perspective - Case of China's TD-SCDMA Industry L. Mei	2774
A Distribution Communication Network Scheme Involving DERs in Power Grid N.H. Yu, X.P. Zhang, X.Y. Wang, R.Z. Wu and W.X. Liu	2779
Short-Time Traffic Flow Prediction Method Based on Universal Organic Computing	
Architecture S.Z. Nie, Y.H. Zhong and M. Hu	2785
A Research of Network Congestion Pricing Mechanism in TCP Connection Based on Utility	
Model L.Y. Hu	2790
Security Analysis of 3G-WLAN Fusion D.Y. Chen	2795
A Genetic Algorithm for Solving Knapsack Problems Based on Adaptive Evolution in Dual Population	
T.S. Yan, G.Q. Guo, H.M. Li and W. He	2799
A Novel Incorporate Algorithm of Concept Lattice X. Gong	2803
Fast Root-Finding of Nonlinear Equations in Geometric Computation C.C. Geng, Z. Li, T.H. Zhou and B. Yang	2808
The Identification of Neurons Research X.J. Shang	2813
The Recognition and Research of Improved Probabilistic Neural Network X.J. Shang	2819

Research and Application of Parallel Computing under Linux X.C. Wang and Q.L. Zheng	2825
SELinux-Based Secure Server Virtualization X.Y. Ren and Y. Yu	2829
Supply Chain Coordination Based on Buyback Contract under the Imperfect Product Quality and Fuzzy Demand Environments	
X.B. Wang and Y.H. Wang	2834
A Mathematical Formula Retrieval Method Using Structure Sub-Tree M.J. Guan, X.D. Tian, F. Yang and S.Q. Yang	2840
Analysis of Impact of Smart Terminal on CDMA Network and Solution Y. Liu and Z. Xu	2846
Infrared Image and Visible Image Fusion Based on Wavelet Transform Z.H. Zhou and M. Tan	2850
Hopf Bifurcation Analysis of a Three-Stage-Structured Prey-Predator System with Multi-	
Delays S.Y. Li and W.W. Liu	2857
Teaching Agent Model Construction Based on Web Cooperative Learning System Y.L. Li, Y.H. Zhong and Z.F. Zhang	2863
Mechanism of Sini Decoction on Coronary Heart Disease in Molecular Level W.Y. Tao, L.Y. Wang, G.H. Cheng, J. Liu and L.P. Tang	2868
On the Construction of Internet Traffic Billing System C.Y. Lei and B. Huang	2873
The SaaS Applied in Oilfield Software L. Sun and Z. Li	2878
The Optimal Robust Portfolio Model Based on CDaR X. Yu	2883
Virtools Based Development of Computer Experiment Y.Q. Wei, X. Gao and J.H. Gao	2887
Improving Iterative Retinex Algorithm for Dynamic Range Compression S.D. Pan, X.J. An, H.T. Xue and H.G. He	2892
Multiple Targets Operation of Reservoir Group in Flood-Season in the Yangtze River A.Q. Li and X.C. He	2898
An Interest Management in Large-Scale Analytic Simulation M. Yang, X.Y. Zhao, Y. Zhou and Y. Cai	2904
The Modified Mortality Decomposition Model and its Application in the China Longevity	
Risk Analysis N. Zhang	2912
Unique Solution for a Fourth-Order Boundary Value Problem	2010
Y.Z. Ding and J.F. Xu Methods in Solving the Wave Equations for a Loudspeaker	2918
J. Zeng, H. Wang and J.Y. Dong	2922
Quantum-Behaved Particle Swarm Optimization Algorithm for Solving Nonlinear	
Equations X.F. Zhang and G.F. Sui	2926
The Difference Supervision Theory of Engineering Registration Workers Based on Bayesian	
Inference Z.J. Feng, J.C. Liu, L.M. Wang, H.L. Zhang and P. Zhang	2932
Improved Newton's Method for Calculation of Power Distribution Network Theory Energy	
Loss X.M. Wang and L. Zhang	2936
Research Computer Network Remote Education Teaching Model B.G. Song	2940
The Implementation of Anti-Attack AES Mathematical Model in Library Network	
Encryption Y.F. Shen	2944
Uniqueness of Q-Difference Polynomials of Meromorphic Functions K.Y. Zhang	2948
	_

The Improvement of Fruit Fly Optimization Algorithm-Using Bivariable Function as Example	
F.Q. Xu and Y.T. Tao	2952
Sub-Topic Segmentation in Multi-Document X.Y. Yun and W. Teng	2958
Research on Logistics Software Design and Development Process Bases on Organizational	
Learning Z.W. Wang and S. Qu	2962
The Analysis on the Construction of CSCW System and Group Collaborative Mode Z.W. Wang and Y. An	2966
Pricing Based on the Binary Tree Model under Public Infrastructure Projects D.J. Fan	2971
Study of Performance Equivalent Simplification Analysis and Application of Stochastic Petri Nets	
D.B. Qi and Q.J. Li	2975
Weight-Discounted Symmetrization in Clustering Directed Graphs B. He, H. Liu, X.H. Zhao and Z.F. Li	2979
A Summary of Comparative Study of Software Reliability C. Peng, Y.J. Meng, L.Y. Lan and L. Wang	2988
Implementation of TCP/NC Protocol Simulation Based on OMNET++ H.Y. Zhang, W.R. Yu, C.Q. Wu, M. Wang and X.P. Xu	2993
Improvement of KEA Based on Lexical Chain Z.F. Li, X.H. Zhao, J. Yi and B. He	2999
A Framework of Evaluation Methodologies for Network Anomaly Detectors X. Zhao, Y.K. Qian and C.S. Wang	3005
Multiscale Event Study of Private Placement Announcement Effect Y.L. Zhao	3011
The Integrated Operation of the Network Security Equipments Based on HTTP S.A. Liu, Y.Z. Guo and X.Q. Yin	3016
Geometric Pseudospectral Method on Lie Group with Application to 3D Pendulum J. Li, H.L. An, X.Q. Gu and H.T. Xue	3021
The Bus Line Network Efficiency Evaluation Algorithm Based on the Theory of Fuzzy and Hierarchical Analysis Z.Q. Liu	3030
A Measurement Method for College Librarian Performance Based on Neural Network P. Wang	3034
Strategies for the Security of Online Payments in E-Commerce C. Zhang, S.J. Jiang and B. Huang	3039
The Implementation of Virtual Studio Laboratory Based on Web Y. Zhao, X.M. Liu, F. Tian and F. Tian	3043
Research of Software Development Model Based on the Theory of Software Engineering L. Wang	3048
Hebei Electric Power Energy Structure and the Power Supply and Demand Prediction under the Low-Carbon Economy - Analysis Based on the Gray GM (1,1) Model Y.S. Hang and Q. Zhu	3052
Research on Computer Virus Prevention Strategies W.J. Cao, Y.C. Liu and Y.Q. Zhang	3057
Finding Influentials Based on the User's Behavior in Microblogging C. Wang and S.Q. Chen	3061
Study on Automatic Test Paper Generation Algorithm Based on the Maximum Flow of the Upper and Lower Bounds Y. Zhang, S.H. Huang, Y. Liu, Z. Fang and D.P. Dang	3065
The Recursive Algorithms of Yule-Walker Equation in Generalized Stationary Prediction E.Y. Zhang and X.F. Zhu	3070
Human Factor Analysis Model of Civil Aviation Incidents Based on Bayesian Network M.M. Zhang, Y.Y. Wang, M. Luo and W.Z. Tang	3074

Comprehensive Evaluation of the Level of Consumption Based on Principal Component Analysis and Cluster Analysis	
W.W. Chen and Y.N. Zhang	3079
Regular (,vq _k) - Fuzzy Duo Ordered Semigroups Q. Cheng, F.L. Yuan, Y.Q. Yin and Q.Y. Chen	3084
A Data Localization Algorithm for Distributing Column Storage System of Big Data J.M. Ding, Y. Jiang, Q.X. Wang, Y.L. Liu and M.J. Li	3089
Research on Calculating the Parameters of Signal Timing for TSP Based on Enumeration Method	
T.H. Gu and H.J. Cao	3094
Static Voltage Stability Margin Calculation for the Microgrid Based on Immune Algorithm M.G. Zhang and Z. Zhang	3099
A Tag-Based Search Algorithm for Causal Bayesian Networks T.P. Liu, M.M. Zhang and Y.Y. Wang	3103
A Novel Non-Data-Aided Frequency Estimation Algorithm for M-PSK Signals Q.H. Tian, X. Man and S. Zeng	3109
Accelerating IDCT Algorithm on Xeon Phi Coprocessor J. Qi, C.Q. Yang, C. Chen, Q. Wu and T. Tang	3114
Two-Dimensional Fourier Transforms Parallel Algorithm Research Based on the PC Clusters	
J. He and L.Y. Li	3121
The Super-Exponential Algorithm of Blind Equalization for Time-Varying Channel Based	
on Basis Expansion Model C. Wang and B. Yang	3125
WLVT: A Static Wear-Leveling Algorithm with Variable Threshold Y.H. Yang, X.B. Xu, S.B. He, F. Zhen and Y.P. Zhang	3131
Applications of Multi-Objective Genetic Algorithm in Optimizing Steering Performances for Submersible	
Z.Y. Yang, Y.J. Pang and S.L. Ma	3136
Prediction of Surface Ship's Residual Resistance Coefficient Using Neural Networks L.H. Song, Z.G. Zhang, X.Z. Wang and D.K. Feng	3141
Modeling and Algorithm of Signal Coverage in Deep Space Communications X.B. Wu, X.W. Zhou, S.A. Du and Y. Yang	3145
Estimation of Failure Rate and its Applications M. Han	3149
Two Cascade Fault Models in Bayesian Networks Y. Wang, Q. Sun and L.Y. Liu	3153
Image Feature Extraction of Moment of Inertia Based on Otsu Threshold Segmentation Q. Liu, L.M. Zhao and L.J. Zhang	3157
New Convergence of Relaxed Parallel Multisplitting Method for the H-Matrix Y.L. Zhang and L.T. Zhang	3162
Data Sanitization Based on Weaken_Sensitive_Pattern Tree X.M. Jiang and D.S. Xue	3167
A Light-Weight Design Method for Vehicle with Welded Structure Based on Surrogate Model	
Y.H. Gao, Q.P. Liu and W.Z. Zhao	3172
A Novel Unconstrained Criterion for Blind Equalization Based on the Property of Vector Norm	
D.L. Wang, B. Yang, Y. Wu and X.X. Wang	3177
Study of BLAST Signal Detection Algorithm in LTE System T. Lei, D.P. He and F.T. Chen	3183
Collision Detection between Rigid Bodies Based on Adaptive Test Lines X.D. Shao, W. Gao and H.L. Liu	3189
Application of Genetic Algorithm and Neural Network in Construction Cost Estimate G.L. Feng and L. Li	3194
A Finding Method of Shape Theme Based on Wavelet Time Series Q. Guo and L. Guo	3199

The Application of Improved Adaptive Kalman Filter in GPS Kinematic Positioning X.M. Ma and Y.R. Chen	3204
C-MAS: The Cloud Mutual Authentication Scheme Z.P. Liu, F.L. Wu, K.Y. Shang and W.L. Chai	3209
Combined Enhancement Algorithm Based on Muti-Scale Analysis W.G. Yuan and S. Wang	3215
Simulation and Implementation of an Improved Inscribed Chord Interpolation Algorithm H. Zhang and Q.R. Wang	3220
Variables Screening Method Based on the Algorithm of Combining Fruit Fly Optimization Algorithm and RBF Neural Network F.Q. Xu and Y.T. Tao	3225
Research and Improvement on K-Means Clustering Algorithm X.M. Wang and J.B. Wang	3231
Audio Retrieval Based on Chinese Keyword Search in Relational Databases B.Y. Zhu, G. Liu and L. Zhu	3236
Unsupervised Multi-Scale Fuzzy Clustering Algorithm Application in the Evaluation of Soil Fertility	
L.Y. Cao, H.L. Yu, L. Ma and G.F. Chen	3241
Denoising Analysis on UWB Communication in Mine Tunnels H.W. Zhang	3246
Application of XML for Telemetry Data Management Z.G. Zhang, L. Gong and H.P. Wang	3250
Parallel Artificial Bee Colony Algorithm for the Traveling Salesman Problem K. Xu, M.Y. Jiang and D.F. Yuan	3254
A Clustering Algorithm of E-Learningers Based on Rough Set Y.H. Wang and H.Y. Ke	3260
A Novel Adaptive Match Scheme for Parallel Mesh-Decomposition in OpenFOAM M. Wang, Y.H. Tang and H.Y. Zhang	3265
A Bivariate Matrix Padé-Type Method of the 2-D Filters C.Q. Gu and R.R. Cui	3271
An Application of MATLAB in Practical Problems H.Y. Xie and Q.X. Bi	3276
Multifocus Image Fusion Based on Multiresolution Transform and Particle Swarm Optimization	
Y.S. Liu, M.Y. Jiang and C.Z. Liao	3281
Orientation-Independent Tensor Voting Analysis S.L. Guo and X.N. Wang	3286
A Novel Optimizing Mechanism of Load Balancing in LTE Network Y. Luan, B. Wang, Z.B. Lv and J.Q. Wang	3293
Algorithm of Digital Watermark Based on Wavelet S.Y. Lai and J. Wang	3298
A Novel Digital Watermarking Algorithm for Medical Color Image X.D. Sun	3303
Wavelet-Domain High Resolution Image Reconstruction L.W. Dong	3309
Based on Local Structural Similarity Image Denoising Algorithm Z.H. Zhou and W.T. Zhang	3313
A New Data Classification Algorithm for Data-Intensive Computing Environments Q.Z. Deng, L.B. Zhang, X. Qian, Y.L. Chen and F.Y. Wang	3318
A Neural Network Based on Canonical Correlation for Multicollinearity Diagnosis J.F. Nong	3324
A Principal Components Analysis Self-Organizing Neural Network Model and Computational Experiment J.F. Nong	3330
A Novel Approach to Improve the Frequency Resolution Based on Sparse Representation W.M. Gui, R.F. Liu, G.Y. Bai and X. Shao	3336
High Quality Algorithm for Chinese Short Messages Text Clustering Based on Semantic F.X. Yang	3341

An Improved Differential Evolution Optimization Based on P System Y.H. Zhong and S.Z. Nie	3346
Formation Vector Based Shortest Path-Planning in CGF Formation F. Jie, Z.H. Lu and B.D. Xie	3351
Convolutive Blind Source Separation Based on Wavelet De-Noising H.B. Zhang and P.F. Xu	3356
A Direct Filling Algorithm of Isogram in Complex Boundary L.N. Huang and G.Z. Liu	3362
An Air Quality Predictive Model of Licang of Qingdao City Based on BP Neural Network R.B. Xin, Z.F. Jiang, N. Li and L.J. Hou	3366
Mix-Subdivision Dynamic Terrain Visualization Algorithm X.H. Zhao, B.D. Xie, D.P. Wan and Q.Y. Wang	3372
Harmony Search Algorithm Based on Cloud Theory L.F. Wang, Z. Kong and X.G. Wang	3378
The Summarize of Improved HMM Model F.F. Shi, X.Y. Cheng and X. Chen	3384
Optimizing Parameters of Fuzzy Petri Net Based on Artificial Immune Algorithm B.M. Liu, A.Q. Qi and W. Wei	3389
An Anti-Collision Algorithm Based on Slot Location and Tag Estimation Y. Liu and X.Z. Xiong	3394
A Solving Algorithm of Fuzzy Support Vector Machines Based on Determination of Membership	
H. Duan and Y.M. Hou Genetic Optimized BP Network Method for Camera Calibration in Binocular Vision	3399
X.C. Hu, H.L. An, H.X. Ma, H.B. Xie and H.T. Xue Vision Algorithms for UAVs Aerial Refueling Using Probe-Drogue	3404
Z.D. Xu, Y.M. Wang, Y.C. Liu and C.J. Wan	3410
A Strategy of Constructing Heterogeneous Cost-Sensitive Decision Tree D.R. Yuan, X.M. Huang, Q.L. Duan and H.W. Fu	3414
A Feature Weight Algorithm for Text Classification Based on Class Information Y.F. Li	3419
An Location-Routing Problem with Simultaneous Pickup and Delivery in Urban-Rural Dual-Directions Logistics Network X.F. Wang	3423
A Statistical Local Binary Fitting Model for Blood Vessel Segmentation S.F. Zhao, M.Q. Zhou and K. Wang	3430
A Study of Negative Association Rules Mining Algorithm Based on Multi-Database X.S. Peng, P. Cheng and M.G. Wang	3435
A Revised Distributed Interpretation for Ontology Integration K. Liu, L. Zhang, S.Q. Tang and X. Qin	3440
The Design for Automatic Target Reporting System Based on Image Processing Z.H. Xu, W.Z. Li and Y.J. Xiao	3446
A Novel Method for Fault Diagnosis Based on PCA Enhanced by Wavelet Denoising F. Qiao, H.M. Zhao, F. Zhang and Q. Ma	3450
Improvements on Motion Estimation Algorithms in Video Coding for H.264/AVC X.L. Wang and L. Zhao	3455
The Calibration of Key Parameters for Sugarcane Harvester Basecutter H.F. Wang, Z.P. Guo, C. Fu and B. Jing	3461
Trajectory Optimization Applied to Space Rendezvous X.M. Song and Q. Lin	3466
Research on K-Anonymity Algorithm in Privacy Protection C. Wang, L.Z. Liu and L.J. Gao	3471
One-Dimensional Searching-Based Particle Swarm Optimization W.Q. Lin, Y.F. He and X.C. Zhao	3476
Analysis and Improvement of User Authentication Framework for Cloud Computing N. Chen and R. Jiang	3482

Application of Ant Colony Algorithm Based on Optimization Parameters in Equipment Material Transport	
X. Li, L.Y. Chen, A.Z. Liu and S. Liu	3487
The Research of Edge Detection in RMB Paper Currency Value Identification X.H. Hou and H.H. Liu	3492
A Kind of Enhanced Slotted ALOHA Algorithm for Anti-Collision in RFID System F.W. Meng, Y. Zhao, C.H. Ma and Y.L. Yang	3497
RFID Localization Algorithm Based on Taylor Series Expansion Y.L. Yang, J. Zhang, F.W. Meng and C.H. Ma	3501
Optimizing the Performance of Machine Learning Based Traffic Classification Q.C. Wang, L. Wang and J. Xiang	3506
The License Plate Image Processing Based on MATLAB W.J. Li, K.L. Tian and J. Zhang	3511
An Improved Skin Color Detection Algorithm Model X.F. Dong	3517
An Adaptive Channel Estimation Based on Polynomial Fitting for LTE Uplink in High Doppler Spread Scenario	
B.J. Liu, X. Wang, X.Z. Tan and Y. Yu	3522
A Novel Algorithm Based on Clustering and Access Points Selection for Indoor Fingerprint Localization X. Zhang, L. Ma, X.Z. Tan and S.Z. Guo	3527
Study on the Multi-Core DSP Parallel Processing of Polarization Images Registration	3321
Z.Y. Li and Y.P. Ai A New Conjugate Gradient Projection Method and its Application	3532
H.F. Cui and T. Zhou	3537
An Effective Image Fusion Method Based on Nonsubsampled Contourlet Transform and Pulse Coupled Neural Network L.J. Ma and C.H. Zhao	3542
Gene Prediction Based on One-Dimensional Image Segmentation F.Y. Wang, Z.W. Zheng and W.H. Li	3549
Curriculum Schedule Arrangement Solved by an Improved Immune Optimization	
Algorithm X.F. Li, A. Shi and J.G. Luo	3556
A Localization Algorithm of Multi-Hop Three Dimensional AOA with Space-Based Angle	3330
Transmission and its Application Q.Z. Chen, Y.F. Ni, X.H. Li, R.J. Wu, Y.J. Lei and S.J. Fang	3562
Research on Node Localization Algorithm in WSN Basing Machine Learning Q.Z. Chen, Y.Z. Chen, C.L. Fan, F. Yang, P. Wang and Y.J. Lei	3568
Synchronous Optimization Method for Heterogeneous Database Based on the Minimal Data Set	
Z.Y. Zhang, D.G. Wang and Z. Cao	3574
Blind Image Separation Based on an Optimized Fast Fixed Point Algorithm W. Yuan and L.Y. Zhang	3578
A Realization of Security Model on Unified Database Console H. Wang and L.Z. Liu	3584
Face Recognition Algorithm Based on Kernel Collaborative Representation L. Zhang and J.W. Dong	3590
Kernel Methods and its Application in Wavefront Reconstruction Z.Y. Tan, Y. Chen, K. She and Y. Feng	3596
Coarse Frequency Offset Estimation of TD-LTE Based on Spectrum Centroid Y.C. Fu, C.H. Zhou, Y.L. Dong and Z.Y. Shi	3602
Transient Signal Feature Extraction Based on Box Dimension and the Largest Lyapunov Dimension	
C.D. Zhao, F.J. Yan, M.H. Gao and L.F. Huang	3607
Control Algorithm Optimization of Electric Air Conditioning Based on ADVISOR J.R. Nan and Z.C. Zhou	3611
A Cross-Entropy Method for Solving Passenger Flow Routing Problem Y. Jiang, X.C. Zhang and T.T. Gan	3617

Code-Switching Speech Detection Method by Combination of Language and Acoustic Information	
H.J. Zhang	3622
The Strong Convergence of a New Iterative Algorithm for Asymptotically Nonexpansive Mappings Y.H. Wang and W.W. Sun	3628
Algebraic Techniques in Linear Cryptanalysis H.R. Wei and Y.F. Zheng	3634
An Evaluation Method of Combat Service Operation Performance for Surface-to-Air Missile Based on FNN G. Li, D.P. Li, Y.Y. Zhou, L.W. Xu and J.F. He	3640
A New Hybrid GRASP with the Pilot Method Forthe Delay-Constrained Multicast Routing Problem	
Y. Xu, X.F. Zheng and R.F. Li	3647
Imbalanced Data Detection Kernel Method in Closed Systems Y.L. Lu and J. Luo	3652
Parallel Outlier Detection in Dial-Back Fraud Calls B. Wu, F.D. Liao and D. Zhang	3659
Application of Two Unknown Quantities and Three Points Interpolation in the Atmospheric Transmittance of Infrared Radiation	2665
H.H. Sun, M. Li and J.S. Song Retrieval Technology by Example during Product Development of Auto Parts	3665
J. Chen, H. Huang, T. Wu and B. Duan	3669
Gear Fault Diagnosis Method of Intelligence Based on Genetic Algorithm to Optimize the BP Neural Network J. Fang	3674
A Rescheduling Algorithm of Train-Group for Railway Emergencies and its Parallelization Z.F. Wang, L. Ruan and L.M. Xiao	3680
The Calculation of the Magnetic Field Produced by an Arbitrary Shaped Current-Carrying Wire in its Plane	
Z. Yu, C.H. Xiao, H. Wang and Y.Z. Zhou	3687
Improved Algorithm for Mining Maximum Frequent Patterns Based on FP-Tree N.L. Liu and L. Ma	3692
A Variation Level Set Formulation Local Based C-V Model for Medical Images Segmentation	2606
Y. Yu, C.B. Huang and L. Li Airborne SAR - ATI - GMTI Influence Factor Analysis	3696
W.D. Zhang, N. Song and J.F. Zhang	3702
Adaptive HOG-LBP Based Learning for Palm Tracking J.B. Gao and Q.H. Cao	3707
Multi-Objective Optimization of Quality in Laser Cutting Based on Response Surface Model	
H.J. Hao, M.L. Wang and F.Q. Hao	3712
Optimized Algorithm for Mining Valid and Non-Redundant Rules N.L. Liu and L. Ma	3717
Study on Predistortion Techniques and Adaptive Modulation Used in Fading Channels W. Liu and E. Zhang	3723
Traceroute-Based Route Gathering and Repairing Mechanism of Client-Independent IP Geolocation System Y.C. Tao, W.W. Jia, L. Shi, L. Wei and Y.J. Cao	3728
Application of Improved DV-Hop Localization Algorithm in Port Container Positioning S.Q. Chen and L.H. Zhang	3735
A Blind Watermarking Algorithm Research Based on Fast DCT S.Y. Lai and J. Wang	3740
Utilize Improved Particle Swarm to Predict Traffic Flow H.Y. Liu	3744
A Support State Marker Method for Detecting Discontinuities in Simulation of Dynamic	•
Systems Q. Yuan, D.L. Ding, G.M. Dai and G.H. Hong	3749

An Energy-Efficient Routing Algorithm for Disruption Tolerant Networks Y.K. Yao, W.X. Zheng and Z. Ren	3754
Predicting Protein Subcellular Localization Using the Algorithm of Diversity Finite Coefficient Combined with Artificial Neural Network Z.Y. Wu and Y.H. Chen	2760
Distributed Heterogeneous Database System Synchronization Problems in Intelligent	3760
Building H. Pang, L.T. Gao, F.X. Meng and B. Liu	3766
Comparing Intuitionistic Fuzzy Set Theory Method and Canny Algorithm for Edge Detection to Tongue Diagnosis in Traditional Chinese Medicine Y.S. Chen, Y.M. Chang and J.C. Lin	3771
A Improve Robust Watermarking Algorithm for Binary Images L. Zhang	3775
Predict the Tertiary Structure of Protein with Error-Correcting Output Coding and Flexible Neural Tree Y.M. Chen and Y.H. Chen	3781
A Terahertz Compressive Imaging Method Based on Single Detector of Randomly Moving Template	2705
S.Q. Shang, M.G. Wang, W. Li and Y. Yang Study on System for Establishing and Systeining Plasma Used to Antonna	3785
Study on System for Establishing and Sustaining Plasma Used to Antenna L.F. Xu and H.J. Kang	3789
The Ziegler-Nichols PID Parameters Setting Method Based on the Ideal Relay Feedback Identification and its Improvements H.Y. Li	3794
Gas Emission Prediction of Coal Mine Based on Evidence Theory Combining with Neural	3/74
Network Z.M. Duan and J.T. Cheng	3799
Power Transform Fault Diagnosis Based on the Adaptive Mutation Particle Swarm	
Optimization Z.M. Duan and J.T. Cheng	3804
Parameter Optimization Based on Genetic Algorithm in the Research of Equivalent Pruning Effect on Fuzzy Decision Tree Y.J. Dong and T.Z. Liu	3809
A Performance Tool for Earth System Models Development	
H. Li and Z.Z. Luan	3814
Research on Visual Simulation of Space Target Optical Imaging H.Y. Liu, S.A. Liu and L.Y. Zhang	3821
Conformal and G ¹ Continuous Connection of NURBS Curves P.S. Deng, S.P. Chen and J.C. Shen	3826
Defect Detection in Patterned Fabrics Using Wavelet Filter Y.L. Ying and D.E. Chen	3831
The LBP Integrating Neighbor Pixels on Face Recognition W.S. Li and L. Chen	3835
A Method for Extracting Biomedical Signals with Specific Temporal Structure Y.J. Zhao, H.N. Jiang and M.X. Qu	3841
A Method for Extracting Signals with Specific Normalized Kurtosis Range Y.J. Zhao, M.X. Qu and H.N. Jiang	3845
Kernal Based Semi-Supervised Clustering and its Application in Leave Recognition of Bauhinia Blakeana Leaves X.Y. Yang and F.S. Yu	3849
Study of Segmentation Threshold Based on Wavelet Transform	J0 4 9
J.Y. Li and H.J. Wang	3855
A New Compensation Method of HRRP for Ballistic Targets X.X. Li, H.Y. Yao and W.F. Sun	3860
A Collaborative Filtering Recommendation Algorithm Based on Bipartite Graph D.E. Chen and Y.L. Ying	3865
Image Labeling Model Based on Conditional Random Fields Y. Yan, W.B. Huang, Y.J. Wang and N. Li	3869

An H_Infinity Approach to Synchronization of Chaotic Systems L.M. Du, F.Y. Wang, C.C. Sun and Z.Y. Li	3874
A Quick Extraction Algorithm Using Window-Scanning for Moving Vehicles J.Z. Yang and T.S. Fan	3879
Global Robust Exponential Stability of Interval Cohen-Grossberg Neural Network with	
Time Varying Delays R. Zhang, J. Liu, M.X. Li and M.J. Liu	3884
Research on Image Seam-Line Removing Based on Illumination Correction W.B. Sun, H.Y. Tang, H.T. Wang and Y. Chang	3889
Research on Seam-Line Detection of Mosaic Image Based on Radon Transform W.B. Sun, H.Y. Tang, Y. Chang and D.B. Zhang	3894
An Overview of Collaborative Filtering Recommendation Algorithm P. Sun, Z.Y. Li, Z.Y. Han and F.Y. Wang	3899
A Framework for Template Driven Automatic Generated Platforms S. Hu, J. Li and H. Song	3904
No-Load Voltage Waveform Optimization of Integral Number Slots Large Hydro-Generator by Increase the Number of Damper Bars per Pole Z.G. Zhang and Z.N. Fan	3909
An Improved Algorithm for Gesture Recognition	
P.P. Chen, D.Y. Tan, Q.Q. Xu and Q.Z. Liang	3914
Boundary Segmentation Based on Improved GVF Snake Model W.B. Huang, Y. Yan and Y.J. Wang	3920
Analysis Based on of Android Malicious Code Intrusion Detection L. Liu and D.P. Li	3924
A Real-Time Scheduling Algorithm Based on Priority Table E.F. Su, K.L. Zhang, X.S. Zhou and C. Fan	3929
Study on Jamming to Sidelobe Cancellation of Phased-Array Radar Y.Z. Hao, J.S. Jiao, F.C. Zhang, W. Hui and S.Q. Wang	3937
Agricultural Optimization of Cold-Chain Logistics Distribution Routing Based on PSO W. Yang, Q. Zhang and G.D. Li	3941
Simple and Robust RSSI Estimation Using M-Estimator Q.Z. Zhu, L. Yang and W. Li	3946
Research on the Algorithm of Topology Discovery Based on Switch MAC's Self-Learning R. Huang and J.F. Wang	3952
The Digital Signal Processing Algorithm Implemented on ARM Embedded System J.X. Chen and H.J. Sun	3958
Analysis of Face Detection and Feature Location Application on Intelligent Character Design Situations	
H.Y. Li	3962
Optional Feature Vector Generation for Linear Value Function Approximation with Binary Features	2077
B.Y. Ren, Z. Qin and F.F. Zhao A Variable Step Size LMS Adaptive Filtering Algorithm and Simulations Based on	3967
Computational Verb Theory L.H. Sun and B.Y. Zheng	3972
DOA Estimation for Antenna Array with Partially-Well Sensors via Low-Rank Matrix	
Completion H.X. Yu, X.F. Zhang, J.F. Li and D. Ben	3977
A Distributed Algorithm for Skyline Query Based on Pre-Clustering P.Q. Ruan, C.W. Xu, J.T. Huang, L.K. Qing and C.Q. Ji	3982
Analysis of the Computer Processing System of Remote Sensing Satellite Images C.Y. Li, X.W. Shi, X.J. Li, H.Y. Li and L. Deng	3987
High-Resolution Terrain Rendering Algorithm Based on Fractal Theory B. Li, B.H. Di, R.X. Fan, S. Li and J. Yang	3992
An Improved Tabu Search Algorithm for a Type of Single Machine Sequencing Problem M.L. Wang and W.B. Liu	3997
Comparison and Improvement of Intelligent Optimization Algorithms M.L. Wang	4002

A Real-Time Face Recognition System for Android Smart Phone G. Yang and J.N. Luo	4006
An Anti-Collision Algorithm for Applications with Massive RFID Tags H. Zhang and J.S. He	4011
Research on Combination Prognostic Method Based on LS-SVM W.L. Li, Y.H. Liu and X.J. Song	4016
Research on Mean Shift Algorithm Y.Z. Zhao, H. Wang and G.C. Yin	4021
Smooth Edge Feature Lines Extraction from Point Clouds of Eroded Fractured Fragments J.B. Lin, M.Q. Zhou and Z.K. Wu	4026
A Root-MUSIC Algorithm for Angle Estimation in Bistatic MIMO Radar J.W. Liu, R.Z. Cao and X.F. Zhang	4031
Research on Reverse Logistics Network Optimization Based on Robust Optimization L.M. Ju and X.B. Yue	4036
SAR Image Recognition Combined Bidirectional 2DPCA with PCA D.G. Wang, Z.L. Yang and S. Chang	4041
SAR Images Recognition Combined Bidirectional 2DPCA with KPCA D.G. Wang, Y. Li and F.L. Jin	4045
A New Fuzzing Technique Using Niche Genetic Algorithm X.Y. Zhu and Z.Y. Wu	4050
The Improved MFCC Speech Feature Extraction Method and its Application X.Y. Wang	4059
Extraction and Classifier Design for Image Recognition of Insect Pests on Field Crops H.T. Zhang, Y.X. Hu and H.Y. Zhang	4063
Context Quantization Based on the Modified K-Means Clustering M. Chen and F.Y. Wang	4068
A Greedy-Based Computer Algorithm for Train Stop Schedule in High-Speed Railway Network Z.H. He, L. Nie and H.L. Fu	4073
Research on a Kind of Algorithm Cell Search in TD-LTE System F.T. Chen and C.Y. Xu	4078
Study of the Non-Dominated Sorting Genetic Algorithm for the Optimal Structural Parameter of the Tooth-Arrangement Multi-Fingered Dextrous Hand Z.L. Li and X.T. He	4082
Fast Image Positioning Based on Mark W.G. Zhang and C.Y. Zhang	4090
Fault Diagnosis of Grounding Grid Based on Genetic Algorithm and Neural Network W. Qian, M.H. Qiu, M. Wu and X.Y. Shi	4095
The Research of Label Identification Method Based on Fuzzy Theory X.Y. Bu and P. Liu	4100
Pedestrian Tracking Based on Improved Particle Filter under Complex Background Y. Fu and X. Long	4103
Microscopic Image Segmentation of Chinese Herbal Medicine Based on Region Growing Algorithm	
Q. Liu, L.J. Zhang and X.P. Liu Similarity of Macaque Face Images Based on PCA	4110
J.Q. Zhang, X.Y. Li, H. Yu Xia and Z.L. Wang Dynamic Building Tracking from UAVs Based on Image Manifold Learning	4116
P. Zhang and Y.Y. Ren Image Denoising Method Based on V-Support Vector Regression and Noise Detection	4121
C.Y. Wang and Z.L. Gao Recognition of Topology Feature of Graphene by Image Processing Technique	4126
M.F. Wang, J.L. Feng, X.P. Zou, X.L. Li, P. Li, Q.J. Liu, W.F. Shan, Y. Han and Y.P. Shen Real-Time 3D Hand Gesture Detection from Depth Images	4133
L. Song, R.M. Hu, H. Zhang, Y.L. Xiao and L.Y. Gong The Passive Location of Emitter Based on Fuzzy Method	4138
W.L. Xu, Z. Liu and H.Y. Nie	4143

The SPWM Pulse Width Signal Spectrum Analysis Based on MATLAB Z. Tao, L. Zhi and J. Long	4147
Chapter 5: Power Systems and Electronics, Microelectronics and Embedded, Integrated Systems, Electric Applications	
The FPGA Implementation of Pulse Wave Feature Extraction D.J. Guan and L. Lin	4155
Research on Embedded GPS/GPRS Intelligent Building Security Technology J.X. Di, J.G. Zhao, Y.C. Si and J.J. Fan	4161
The Grid-Connected Inverter of Simulation on Direct-Drive Wind Power System Based on MATLAB X.M. Wang, W.C. Liu and W.J. Xiao	4166
Simulation Study on Dynamic Reactive Power Compensation of Grid-Connected Wind Farms	4171
X.M. Wang and X.X. Mu An Electrical Design for Crude Oil Dilution	4171
D.L. Guan and F. Yang	4175
An Adaptive Power Allocation for Spatial Multiplexing in MIMO Channels S.Q. Fan, Y.D. Huang, E.Q. Xu, K. Zhang, H.Z. Zhu, H. Zhai and N. Jiang	4179
Determine and Analysis of the Power Line Failures in Circuit Bridge Theory S.G. Niu and Y. Niu	4184
Verification of Dependable Architecture Based on Prototype Verification System L. Yuan and P. Fan	4188
Short Term Load Forecasting Based on PCA and LS-SVM R.R. Wei, Z.Z. Wei, R. Rong, Y. Wang, J.D. Jiang and H. Yu	4193
Design of Signaling for Multi-Process Micro-Kernel Embedded OS on ARM B. Qu and Z.X. Yang	4198
Power Supply System of Complex Based on FPGA Using LTM4601 to Design Efficient DC/DC Voltage Regulator Module Z.D. Wang	4203
Design of SD Card Driver and Tiny FS for Multi-Process Micro-Kernel Embedded OS on ARM B. Qu	4207
Reason Analysis and Solution of the 220kV Breaker's Malfunction in Synchronous Parallel Operation W. Zhang, N.Y. Li and Y.Q. Dun	4212
Study on a Craft Simulation Technology for the MEMS Thermal Element C.Z. Mei, L.H. Piao and B.L. Zhang	4217
Study on Fluidic Gyroscope Linearity Compensation Method C.Z. Mei, L.H. Piao and B.L. Zhang	4221
Study on Fluidic Gyroscope Zero Temperature Compensation Method C.Z. Mei, L.H. Piao and B.L. Zhang	4225
An Energy-Efficient Approach to Hot-Plugging of Embedded Multiprocessors J. Xia	4229
Display System of OLED Based on FPGA Z. Zhan	4235
Design of MINIX FS for Multi-Process Micro-Kernel Embedded OS on ARM B. Qu and C.W. Chen	4240
Design of Primitive Shell for Multi-Process Micro-Kernel Embedded OS on ARM B. Qu	4245
RTDS-Based Simulate Analysis of AC Filters Switch Method in HVDC Converter for	
Voltage Stability X.J. Zhu, T. Chen, W. Fang, L.J. Qian and Y.Y. Wen	4250
Transient Analysis of Indirectly Grounded Power System J. Yan, L.J. Qian, J.C. Mei, X. Hou and W. Fang	4254

The Simulation Research of Self-Excited Startup for Wind Generator Based on RTDS Y.L. Hu, R.R. An, J.C. Mei, L.J. Qian and J. Yan	4258
Research on Dynamic Characteristics of Large Span Transmission Tower in Icing Environment	
Y. Du, L. Jiang, Y.X. Zhou, Q.R. Li, T.R. Wan and Z.J. Pan	4262
Use N+ Buried Layer to Design a Low On-Resistance VDMOS Z.H. Tang, B. Wang, J.N. Wang and K.Z. Tan	4267
Compensation Effect and Simulation of Series-Parallel Hybrid Dynamic Voltage Restorer Y. Shi and X.L. Wang	4271
Equivalence of Large Scale Wind Farm Based on Per-Unit System on RTDS Y. Wang, Y.L. Hu, D.X. Sun, T. Ding and L.J. Qian	4275
The Main Circuit Studies of Current Mode APF Based on SPWM Technology H.Y. Zhou	4279
A Novel 2-GS/s 12-Bit DAC in SiGe HBT Technology Y.J. Yang, R.B. Hu and J. Chen	4283
Analysis of the Dielectric Loss in the Transmission Line Based on Time Domain BLT Equation	400=
W.J. Wang and Z.W. Xuan	4287
Application of the BLT Equation for Radiation Field Calculation for Double Transmission Line	4202
H.Z. Xu and W.J. Wang	4292
The Application of ATCA Structure for Power Communication Switching System H.Q. Yin, W.N. Wu, J.H. Guo and J.M. Wu	4296
A High Speed Open-Loop Track/Hold Circuit in CMOS Process Z.P. Zhang, Y.L. Wang and M. Liu	4302
Chapter 6: Manufacturing, Industry Development and Automation	
Optimization of Long Distance Natural Gas Pipeline Design Proposals Based on Multi-Objective AHM Method F.J. Dong and X.F. Lu	4309
A New Study of Assembly Scheduling Effective Constraint Method in Assembly Planning Y. Meng	4314
Study on Load Analysis of Frame for Pavement Cold Recycling Machine J. Liu	4318
Manufacture of Nuzzles Integrated with Saddle Pad L.Z. Tian	4322
Accelerating Unpopular Channel through Federation J. He, W. Zhou and S.P. Wang	4326
Research of the Transient Temperature Field and Friction Properties on Disc Brakes	
J. Zhang and C.G. Xia Cyber Security Situation Awareness Based on Data Mining	4331
J. Liu, X.W. Feng, J. Li and D.X. Wang Simulation of Electromagnetic Launch Type Tear Weapon System	4336
M. Wang and Z.M. Liu	4343
Research on Automatic Compensation for Drop in the Concrete Mixing System A.L. Fan	4349
Finite Element Analysis of Flow Distribution on Nozzle Array Fluidic Gyroscope Performance LB Chan LH Bigg and L Tang	1252
J.B. Chen, L.H. Piao and J. Tang Research of Static and Dynamic Characteristic Simulation and Experiment for the Sliding	4353
Valve R. Wu, Z.F. Yu, R. Yang and Y.J. Chen	4357
Research on Structure Analysis of an Flexible Flywheel Based on FEA Y.Y. Zhang, C.X. He and M.M. Zhu	4363
Nonlinear Machine Parameter Model of a High Performance Drive System M.L. Wu	4367

A Novel Hybrid Threshold Proxy Signature Scheme X. Yang, L. Zhang, C.M. Li and G.Q. Li	4372
Intelligent Setting Method of Laminar Cooling Process for Hot Rolled Strip J. Hou, J.X. Pian, Y.L. Sun and K. Xu	4377
Mechanism for Security Enhancement in Mobile Application Installation P. Zhang, H.L. Sun and Z. Yan	4382
Calculation on Energy Saving Potential of a New Dry-Type Air-Conditioning System X.W. Hu, Y.F. Zhang, L.L. Wei and X.H. Wu	4388
Impact of Automation to Maritime Technology S. Ding, D.F. Han and B.S. Zhang	4394
Research of Electric Power Steering System Assistance Characteristic Based on the Identification of the Road Q. Li and C.G. Xia	4401
Gabor-LBP Features and Combined Classifiers for Music Genre Classification H.Q. Wu and M. Zhang	4407
A Method for Chinese Noun Phrase Recognition Base on Word Co-Occurrence Directed Graph	4410
X.L. Liu Irreversible Thermodynamic Discussions about Ferroelectric Phase Transitions	4412
J.S. Wang An Interval Type-2 Fuzzy Cellular Automaton Model for Traffic Flow	4419
J. Dong and X.M. Zhang The Reverse-Engineering-Based Design of Three-Dimensional CAD Parameterized Organic	4423
Morphology Mold W. Ye and R.Y. Liang	4429
Large Size Static Pressure Box Airflow Distribution G.D. Liu, X.X. Wang, X. Wang, F. Qi, G. Wang and S.T. Hu	4433
Aggregation of Systematic Operational Capability of Armaments X.H. He, Y.N. Ma and Q. Wang	4439
Computer Simulation Technology Application in Hydraulic System Analysis and Design X.P. Hu and Z.P. You	4444
Equipment Support Training System Design H. Wang and Q. Zhang	4448
Development of Diagnostic Equipment for ECU Parts Used in Electric Vehicles J.R. Nan, J.K. Huang and Z. Chai	4454
Shock Resistance of a Marine Pump C.Y. Wang, J. Wang and J.H. Zheng	4460
A Decision Support System with EDA_PR Algorithm for the Hot Rolling Scheduling X.X. Zhang and Y.Y. Ma	4466
Design of Interactive Intelligent Family Utilization System in Smart Grid X.S. Liu, Y. He, F.C. Zhang, G.H. Yan and R.Z. Wu	4471
Rule-Based Data-Driven Thematic Mapping Technique H.Y. Zeng, L.H. Wang, Z.Q. Xie and W.B. Zeng	4476
Application of Earthquake Resistance Analysis Technique in the Design of Constructional Engineering	
C. Gan and X.S. Luo Modeling and Feature Extraction from the Noise of Underwater Vehicle Propeller Startup	4482
X.D. Jiang, F.L. Huang, J.S. Tang and Y. Pan	4487
Applied Research of Solar Water Heater Integrated with Modern Architecture B.Y. Zhang, Y.H. Xie and S.X. Sun	4492
Research on Modeling and Simulation of Complex Adaptive Systems Based on Multi-Agent S.L. Liao and J.Z. Lai	4497
Numerical Investigation on Shock-Induced Separation Structure of Supercritical Airfoil X. Xu, D.W. Liu, D.H. Chen and Y.J. Wang	4502
Research on Warfare Simulation System of EW Aircraft Based on HLA Y.Z. Hao, F.C. Zhang, W. Hui, S.Q. Wang and Y.J. Lu	4506
Finite Element Analysis of the Drum-Shape Cavity Fluidic Gyroscope Sensitive Mechanism C.Z. Mei, L.H. Piao and B.L. Zhang	4511

Design of Microwave-Oven Hybrid Heat Treatment System Based on LabVIEW Q.R. Lu, Q.L. Tang, L. Wang, J. Zhu and J.H. Luo	4515
Bit Selection of Carbonate Formation Based on Fuzzy Clustering Method X.Y. Tang	4520
Analysis of Influencing Factors on Mine Gas Emissions Based on Grey Correlation X.Y. Tang, L. Ke and P.Y. Wang	4525
RFID Tag Area Management Base on IOT H. Zeng, Y.H. Fu and X. Chen	4529
Study of Knowledge Reasoning in Supply Chain Y.Q. Lu, M. Hu and C. Li	4533
Design of Surface-Wave Sustained Plasma Flat Panel Lamps K. Wang and J. Li	4537
Design of Polygon Prism Optical Lens for LED Street Lamps J. Li and K. Wang	4541
Secondary Optical Design of LED Stage Lamps K. Wang and J. Li	4545
C-Arm X-Ray Machine Guided Blocking Treatment of Lumbar Facet Joint Osteoarthritis L. Li, L.H. Zhang and Y. Zhou	4549
Detection of Differentially Expressed Proteins of Capsulation-Resistant and Sensitive Osteosarcoma Tissue	
L.H. Zhang and L. Li A Study on the Automatic Identification of the Semantic Truth-Value of "Chayidian Mei P"	4553
Construction C.F. Lu	4557
Design of Disaster Early Warning Management System of Digital Greenhouse M.X. Zhang, J. Sun, Z.M. Li, M.M. Huang, W.X. Lv and Z.G. Dai	4562
Research of Warship Equipment Faults Diagnosis System Based on Integrated Reasoning B.Y. Yu and H.F. Fan	4567
On the Case-Assigning Host Y. Yang	4572
Feature Extraction for Classification of Proteomic Profile X.L. Yang, Q. He and F. Yang	4576
Health Assessment of Aircraft Based on Wavelet Neural Network C.G. Zhao, X.P. Qi, C.M. Mi and T.F. Miao	4581
Near Field Electromagnetic Scattering Model Studying for Coarse Sea Surface J. Gu, K. Cai and Z.C. Liang	4586
A 3-D Calculation of Electromagnetic Field in a Multiphase Induction Motor W.Y. Song	4591
Instability Analysis of Once-Through Steam Generator S.X. Hou, J.J. Luo, J. Xu and Q.H. Zhang	4596
Decision Models for a Car Rental Company with Two Types of Vehicles and Demand Substitution	
T. Feng Inventory Model for the Batch Processing of Defective Products in Manufacturing and	4600
Remanufacturing C.C. Lin and C.T. Su	4604
Research on Water Trajectory to a Railway Tanker Based on High Pressure Water Jet Z.X. Meng, D.H. Miao, Z.M. Wang and Y.J. Qi	4612
Study on Nonlinear Dynamics of Planetary Reducer X.F. Han, Y. Bai, M. Li and H.G. Jia	4616
Sludge Drying by Virtue of the Solar Energy and Reclaimed Water Heat Pump with Double High-Temperature Heat Source	4621
X. Xiao, X.J. Xu, T.Z. Guan, X. Zheng, X.H. Chen, G.F. Shi and L. Ma Numerical Study on Aerodynamic Design of Hypersonic Vehicle Forebody	
F. Wang and S.L. Gao Diagnostic and Therapeutical Tinnitus System Based on Fuzzy Rough Set	4626
X.M. Ma	4630

Automatic Hexahedral Mesh of Concrete Box Girder with the Vertical Section Method W.P. Zhao, Q.Y. Zhao, Z.Q. Lu and S.H. Yu	4636
Short-Range Detection System with Polarized Laser and Polarization Characteristics of Typical Targets	
Y.Y. Yang, H.M. Chen, H.J. Chen, Y.Y. Yang and Y.F. Shao	4640
Modeling and Simulation of Asynchronous Motor in $^{\alpha\beta}$ Coordinate System Based on Matlab Y.M. Li, Y.B. Wang, Q.F. Yan and W. Huang	4646
Analysis of a Control Valve's Inner Flow Field Characteristics Based on CFD L. Wang	4652
Simulation Research of a Type of Pressure Vessel under Complex Loading Part 1 Component Load of the Numerical Analysis	1656
Y.F. Zhang, H.X. Guo, J.C. Li, G.R. Yang, Y. Ma, W.M. Song, J. Sheng and Y. Hao Simulation Research of a Type of Pressure Vessel under Complex Loading Part 2 Complex Load of the Numerical Analysis	4656
J.C. Li, J. Sheng and Z.Y. Fu	4662
Characteristics of Jurassic Source Rocks in the North Ustyurt Basin T.W. Zhou, J.Z. Zheng, Z.W. Zhang, T.Z. Wu and J.J. Guo	4668
An Implementation of Simulation-Based Environment for Bus Fault Injection Techniques B.B. Shi and X.P. Gao	4672
Study of Magnetoacoustic Tomography with Injecting Current by Experiment X. Huang, G.Q. Liu and H. Xia	4677
Status and Development Trends of Pu'Er Tea Industrial Mechanization and Automation L.L. Yang, X.Y. Tang, J. Shi, W.Y. Ning and Q. Wang	4681
Study on Recognition of Black Insects on Dark Background by Computer Vision S. Liu, Y. Yang, X.D. Zhu, H.W. Wang and S.B. Lian	4685
Finite Element Analysis of Nozzle Dimension Influence on Fluidic Gyroscope Performance J.B. Chen, L.H. Piao and J. Tang	4690
Based on Interval-Valued Intuitionistic Fuzzy Information of Joint Operations Commander and Staff Ability Assessment Y.C. Wang, Z.G. Ao, Y.X. Gong, Y.Y. Jiang and T.X. Zhao	4694
Mathematical Model Studies on Dispersion of Fine Non-Spherical Particles in Enclosed	
Spaces Z.B. Song, C. Ge, S.X. Zhang and X.L. Wu	4699
Cycle Properties of s-Vertex Connected Graphs X.B. Ma, X.Y. Liu, L.L. Zhang and Q. Lv	4703
Level of Repair Analysis Oriented on Integrated Materiel Support Based on BP Neural Network	
Y. Shen, Z.W. Shan, J.H. Cao and F.S. Liu	4706
A Study on Grey Correlation Degree Model of Venture Capital Intrinsic Value L.S. Yin	4710
The R&D Research of Digital Content Platform Analysis Based on Numerical Simulation F.J. Zhang, J. Shang and B. Wang	4716
Contrastive Studies of Pun in Figures of Speech Q.C. Shao, Z.Z. Wang and Z.J. Hao	4721
Two Dimension Numerical Simulation of Airflow over Complex Terrains at Low Altitude C. Tang, H.R. Hu and G.X. Hong	4728
R&D Model of Platform Technology for Digital Content Analysis Based on Numerical Simulation	4735
F.J. Zhang, J. Shang and B. Wang Staggered-Grid Finite Difference Method for Numerical Simulation of the Formulated	4/33
BISQ Model X.M. Zhang, C.M. Fu and T.T. Guo	4742
Visual Center of Gravity and Ratio of the Split Screen P.R. Yao	4747
The Analysis of the Key Problems about Traffic Accident Speed Identification Based on	
Braking Traces Z.W. Guan, S.H. Wang, W.Q. Liang, M.F. Zheng, L. Wu, Y. Liu and Z.X. Li	4752

Reservoir Pressure of Coal-Bed Methane Prediction Research Based on Analysis Method by Neural Net-Work	
X.P. Jing	4758
Research of Thermoelectric Enterprise Marketing Management Information System	
Integration Model Z.G. Li, Z.T. Fu and J.Y. He	4763