Table of Contents

Preface

Chapter 1: Applied Mechanics, Mechanical Engineering, Mechatronics, Automation and Control

SolidWorks	
N. Shan, D.F. Cheng, J.W. Feng and J.Z. Gao	3
Research on Finite Element Model of Wheel-Rail Contact H. Zhang, X.Y. Hu, F.T. Lin and X.J. Zhou	7
Vehicle Traction Performance in Research of Soft Road R.L. Xu and T. Yang	11
Analysis on Factors Influencing and Numerical Simulation of Hot Stamping Mold Cooling System H.M. Yang	16
Analysis and Research on the Deformation of Flat Wall with Coating in the Tank P.Y. Bian	21
Integrated Control of Vehicle Chassis Based on PID E.G. Dong, J.X. Lou and L. Zhang	25
Robust Integrated Design for Vehicle Chassis Based on Uncertainties L. Zhang, J.X. Lou and E.G. Dong	29
Properties of Hydraulic Floating Caliper Brake for AGV Car A.R. Li, Y.J. Fan, T. Han, Z.K. Li, P.L. Zhao and J.J. Wang	33
Design and Implementation of ARM-Based Intelligent Switchgear Control System J. Liu, J.T. Diao, C. Zhu, J.L. Xing, J.L. Wang and N. Li	37
Design of the Control System for Chinese Mitten Crab Nurturing Megalopa Based on Fuzzy-Control Technology H.G. Cui, W.T. Ren and B. Wang	41
A Method of Precision Active Damper Control F. Chi, Y. Zhu and L.W. Wu	45
Reliability-Based Analysis of Frequency of Closed-Loop Vibration Control Systems with Interval Parameters J.G. Liu, S.P. Wang, Z.J. Zhang, D.W. Jin, F.X. Huang and L.J. Qin	53
Numerical Simulation of the Harmonic Response of Front Frame for FRSTV H. Zhang	58
Study on the Control System of Grinding the Nozzle of Twin Flapper-Nozzle Valve S.Z. Yang, R. Qian and Y.J. Bai	62
Nonlinear Force Distribution for Multi-Finger Robot Hand Using Impedance Control Based on EtherCAT	
M.X. Hou, L. Jiang and Z.P. Chen	67
A Remote Intelligent Control System Based on Zigbee Wireless Technology G.H. Cai, C. Liang, Q. Huang and Y. Yuan	71
Subjective Evaluation of Braking System and Dynamics Analysis H. Guan, C.G. Duan and P.P. Lu	76
Hammer Rod Optimization of Large Tonnage Air Hammer Y.S. Guo, Y. Zhang and M.K. Cheng	81
Study of Aging Technology in Aeronautical Aluminum Alloy Plate Vibration Base on Finite Element Numerical Simulation Y. Guo	85
Contact Stress Analysis of Hard Coating Rolling Bearing	63
Y. Guo	90
Design a Temperature Control System Based on Labview H.X. Cheng, K. Zhang and L. Cheng	95

A Research on Tracing Method - Tracing Method of Quality Issues of Gearbox and Application of Rank Sum Test H. Hu and L.Z. Li	99
Scaffolding Erection Program of a Certain Project	
Y.H. Zhao Research of Intelligent Control of Traffic Signal	103
X. Li, J.S. Du, J.T. Hu and X. Bi	107
Two Degrees of Freedom Manipulator Kinematics Analysis and Simulation L.W. Guan, C.W. Ma and J.F. Han	112
Dynamic Bending Mathematical Model of Vehicle Adaptive Front-Lighting System Based on Rolling Characteristics L.F. Li and M.J. Yang	117
A Dynamic Fuzzy Neural Networks-Based Surface Vessels Course Tracking Controller Y. Wang, L.L. Guo and C. Guo	122
Simulation and Calculation: Improve Work Life of Bearing on Driving Gear of Main Reducer B. Wei and X.Y. Su	128
Mechatronic Systems in Mechanical Engineering	120
B.J. Zhang and W. Wei	134
Design and Analysis of a Tow Truck's Lifting Organ G.S. Zhang, W. Zhou, Y. Chen and J.Q. Gong	137
Modeling and PID Control of Single-Stage Inverted Pendulum System Y.Q. Jin, J.W. Lei and D. Liu	142
The Design and Simulation of Missile Internal and External Loops with Dual PID Control J.H. Wu, J.W. Lei, J.H. Shi and D. Liu	146
The PID Control Stability Analysis and Simulation of Missile Posture Inner Loop Based on Simulink J. Peng, J.W. Lei and D. Liu	150
Path Planning of Mobile Robot Based on Improved Artificial Potential Field Method	130
S.Y. Zhang, Y.K. Shen and W.S. Cui	154
Design of Automatic Air Purification Device L.M. Wen	158
Simulation Research of Six-Bar Mechanism for Open and Close X. Zhou and Y. Wu	162
Kinematics Characteristic of Exoskeleton Walking Robot for Older People Y. Chen, S. Lin, R.H. Li and L.D. Zhang	167
Simulation and Intelligent Control of Stratified Flow Control Sink L. Rao and W.W. Tao	171
A New Test Bench Design Supporting Lifecycle Activities of Civil Aircraft Integrated Electrical Mechanical Control System	
L. Zhang, T.X. Xiong and R.J. Fan	175
Design of Adaptive Controller of Brushless DC Motor Based on Fuzzy Genetic Algorithm Y.J. Chen and Y.H. Zhang	179
Dynamics Analysis and Experiments of an Underactuated Cable-Truss Mechanism R.Q. Liu, C. Shi, N. Wu and H.W. Guo	184
Research of Hydraulic Support Control System Based on Controller Area Network X.F. Cheng, J.D. Guo, S.L. Liu and X.P. Cui	191
Design of Temperature Control System Based on PLC S.L. Liu, G.X. Liu, X.F. Cheng and W.X. Zhang	195
Design and Simulation of Fully Mechanized Hydraulic Support P.Q. Wang, Z.S. Xu, Z.F. Sun and H.Y. Jiang	199
Analysis of Spring Type FDC Filling Capping Machine Y.R. Zuo	203
Vehicle Security Distance Control Based on Binocular Parallax Vision S. Liu, X.J. Kong and M.C. Shan	207
The Research on Interior Permanent Magnetic Synchronous Motor MTPA Control B.Z. Zhang and Y. Ruan	211

Kinematic Analysis of 5-UPS Parallel Machine Tool Based on Adams L. Cai	215
Based on the Principles of Mechanical and Electronic Multi-Function Love Gyro Design Research	
Y.J. Chen, W.K. Jiang and J.S. Jin	220
Hierarchical Control System for PV Microgrid Applications S.Q. Li, T.J. Xu, B. Zhang and J. Yang	224
Minimum Resolution Adjustment by PIC16F877 Pulse Width Controlling F. Yang, W.M. Zhang and W.C. Jiao	230
Modeling and Analysis of Solar Energy Collected by High Altitude Solar UAV's Surface Y. Zhang, L.B. Liu and D.X. Liu	234
Design and Principle Analysis of Wheel-Tracked Robot's Mobile Mechanism H.B. Tian, H.W. Ma and Y.S. Zhang	238
Mechanism Synthesis of a Transformable Wheel-Legged Robot H.B. Tian, Z.D. Fang and A.M. Li	242
Humanoid Robot Arm Kinematics Modeling and Motion Planning Q.J. Du, X.Y. Zhang and S.L. Zhai	247
Manufacturing Process Quality Control and Analysis of the Turbocharger S.J. Wang	251
Modal Analysis of Excavator Boom Based on UG and ANSYS M.L. Wang and A.M. Ji	255
Research on Main Drive System Vibration of Six-Roller Wide Strip Aluminum Cold Rolling Mill	
D.Z. Zhang and L.Q. Meng	259
Path Tracking Control of Micro-Tracked Mobile Robot J. Gao and S.L. Zhang	265
Research on Port Plate of the Internal-Curve Planet Gear Pump Z.H. Luan, X.F. Sun, Y.H. Li and Q. Tang	272
The Optimized Design of Coanda Effect Control Switch in the Water Hammer Vibrator Y. Ding, F. Niu, S.M. Zhang, J.J. Zhang, W. Zhang and G. Yang	276
Research on Full-Automatic Intelligent Hydraulic Lifting Column System X.Q. Wang, G.L. Zhu, Y. Yu and H.G. Zhang	282
Varying Rotation Speed Bearing Fault Features and Extraction Method Based on Wavelet Packet	206
B. Wu, S.P. Yu, Y.G. Luo and C.J. Feng The Design and Involvementation of a Handling Bob of	286
The Design and Implementation of a Handling-Robot Z.H. Deng and Y.H. Zhu	290
The Real-Time Simulation System of Bionic Robot Fish Water-Polo-Game Based on MSRS W.B. Zhang, C.G. Liang and Y.H. Zhu	294
Research on Temperature Control System for Vacuum Annealing Furnace Based on Neural Network-PID	
N.L. Zhang, L. He, W. Huang, X. Liu and L.B. Li	298
Graphical Meta-Model Construction Method of Embedded Control System of Specific Areas	205
L.J. Meng, X.H. Wu and M.C. Qu	305
Smoothly Blending of Two Elliptic Cylinders Whose Axes are Non-Coplanar G.Z. Bai, H. Wang, W. Zhi, Z.J. Yin and S.Y. Liu	309
Design and Implementation of Large-Scale Temperature Stability Control System W.L. Liu	313
Multiple Remote Intelligent Temperature Control System S.J. Ma, C.Y. Shao and J.J. Fan	317
Research of Anti-Collision Method in Robot Path Planning Process T.H. Ma	323
Automatic Feedback Control System of Detection and Treatment of Infantile Jaundice Y.M. Huo, X.Y. Zuo, L.N. Tong and Z.M. Cui	326
The Control Policy for Self-Balancing Robot Z.X. Wang	330

Movement Trajectory Tracking Method of Mechanical Arm Y.L. Li	333
Structural Analysis and Heat Transfer Performance Test of Abrasive Tool with Heat Pipe T. Sun, F. Li, X.Q. Zhou and F. Ma	337
Development and Research of Intelligent PID Controller Based on Fuzzy Neural Network M.J. Li, H. Tian and X.J. Guo	341
Simulation Design of Automatic Control System of Scenic Spot Based on Digital Electronic Technology J.X. Zhang	346
Linear Motion Control of an Underactuated Spherical Mobile Robot Q. Zhan, X. Chi and X. Xi	351
The Design of Sewage Ultraviolet Ray Disinfection Control System Based on WSN J.W. Ju	356
Research and Design of Multi-Angle Car Reversing Auxiliary System H.B. Chen and C. Li	360
A Novel Behavior Fusion Method for Intelligent Vehicle Routing Planning H. Jin, T. Ning and B. Yin	363
Adaptive Stable Control for Chaos Systems by New Fuzzy Inference Systems without Any Rule Base	267
L. Luo, Y.H. Wang and Y.F. Sun Numerical Simulation on Air Volume Flow Rate Distribution of Stator Ducts for Salient	367
Pole Synchronous Motor L. Liu, Y.P. Lu, J.D. Han and X.M. Sun	373
Experimental Study of Flow Field of Large Air-Cooled Turbine Generator for Multi- Ventilation Ducts of Stator Y.P. Lu, Q.H. Pan, H.L. Li and J.D. Han	377
Design of the Automatic Guided Vehicle Control System Applied to Automotive Logistics X. Zhang, H. Zhou and G.S. Liu	381
Analysis of the Bionic Wing's Aerodynamic Performance J.S. Jiao, X. Hua and Z. Ji	385
Flow Induced Vibration in the Seal System N. Zhang	390
Simulation for the Combustion System Work Process in Internal Combustion Engine Y. Shi, Y.F. Liu and X.S. Jia	394
Dynamic Analysis of Large-Displacement Motion Simulator Y.F. Zhou, S.L. Guo, W.B. Zhou, Z.Y. Zhang and T.S. Song	398
Finite Element Simulation of Track Shoe and Ground Adhesion C.B. Yang, L. Gu and Q. Li	402
Impact of the Unbalanced Magnetic Pull on the Shafting Vibration of Hydro Turbine Generating Sets	406
Y.Y. Zeng, Y. Zeng, Z. Wu and S.G. Yu The Performance Development of the Mechanical Suspensions Test Rig	406
Y. Liu	412
Simulation Research of Top-Hung Mechanism for Open and Close X. Zhou and Y. Wu	416
Analysis of Hydraulic Press Servo System Based on Robust Controller J.C. Feng, X.D. Kong, J. Zhang, L.J. Wang and C.Q. Liu	421
Research of the Penetration Process for Concrete Target Based on the Extended Finite Element Method K.B. Yan, Z.X. Huang, R.Z. Liu and F. Wang	429
FEM Analysis and Structure Improvement of Pinch Valve S.F. Xiao, Y. Zhang and X.W. Li	433
Modeling and Simulation of PTZ System Based on DC Torque Motor X.B. Li, H.Q. Wu, J. Wang and Z.J. Yuan	438
Study on Dynamic Simulation of Wind Turbine Gearbox Based on Pro/E and ADAMS W.Z. Yang, J.F. Cao and W. Zhang	442

Study on Parameter Matching of Drive System in Pure Electric Vehicle Based on AVL- CRUISE	
	146
The Development of the Near-Bed Sediment Sampler Q. Ying	4 51
The Finite Element Analysis of a Heavy Semi-Trailer Frame Based on ANSYS Y. Ye and Y.H. Wu	155
The Temperature Field Research of an Engine Cylinder Liner Based on ANSYS Y. Ye, F. Wang and Y.H. Wu	159
The Optimization Design of a Heavy Truck Leaf Spring Y. Ye and F. Wang	163
Transient Numerical of Piston Wind in Subway Station H.T. Bao	167
Research on the Parameter Matching of Power Device of Hybrid Sanitation Vehicle C.S. Si	1 71
A Coordinative Steering Control Method Based on PID Compensation for an Electric Vehicle	
	175
	185
	189
Research on High Precision Control Technology of the Pump Truck Boom Motion Trajectory	
C.R. Zhao and H.X. Han	193
	197
Improved Method of High Voltage Switchgear Temperature Prediction Based on WNN W. Xue	502
Geometry Error Parameters Identification Methods of 3-Coordinate CNC Machine Tools J.W. Fan, Y.J. Liu and D.H. Mu	506
A Multi-Axis Synchronization Control Approach Based on Adjacent Cross-Coupling Strategy	
<i>E</i> , <i>E X</i>	510
Control System Design of Missile Based on Back-Stepping and Variable Structure Control Method Y. Gao, Y. Xia, X. Wang and W. Zhang	516
Speed Synchronization System of Master-Slave Motor Based on Repetitive Control	523
Hydrodynamical Analysis on the Arrow	
č	527
E	531
	535
C ²	539
Study on Deformation Performances of Steel Braced Frame Structures with Random Imperfections L. Jin, H. Si and L.G. Jia	543
Prediction of Cylinder Fatigue Lifetime with Kernel Density Estimation Theory	547
Motor Control System Based on DSP Four-Bridge Arm Topology	553
Design of Test Bench for Flyweel of the Shaft-Seal Nuclear Coolant Pump and ANSYS	,,,,
Analysis	559

Research on Intelligent Control Integrated System of Water Treatment L. Zhou, B.K. Zhu and X.S. Lin	563
Optimization Design of the Spinning Multistage Centrifugal	
S. Shi, L.L. Guo, J.T. Sun and G.S. Du Adaptive Sliding Mode Control for Spacecraft Proximity Operations	567
Y. Chi and W. Huo	571
Robust Approach to Attitude Control and Momentum Management for Space Station B. Han and W. Huo	578
Active FTC of LPV Systems with Actuator Fault H.M. Chen, H.B. Wang and Z.X. Weng	586
Dynamic Characteristic Analysis of Spindle Unit of Loaded Test Bench S.X. Chen and X. Li	592
An Improved Design of the Shrike Warhead and its Damage Effectiveness W.K. Chen, X.Y. Li, F.Y. Lu, R. Chen and Z.Y. Zhang	597
The Design and Analysis of Novel Carbon-Free Vacuum Cleaner J.X. Zhang, Z.E. Zhang and Q. Zhang	602
The Application of MATLAB Simulation in the Computer Control Technology S.H. Zhu	606
Optimization Design of Excavator Working Device Y.S. Guo, Y. Zhang and M.K. Cheng	610
Research on Design and Application of Computer's Intelligent Control System X.Y. Zhao and Z.N. Miao	614
Design of the Experimental System of Electromechanical Control Based on Soft PLC H.L. Niu, Q.H. Gao and X.J. Liu	618
Dynamics Analysis and Drive Force Selection for Cylinder Forward Push Lever Lifting Mechanism	
J.Y. Li, Q.H. Gao and K.H. Chen	622
Study on the Dynamics of the Bubble under the Combined Action of the Bjerknes Effect of the Free Surface and the Buoyancy K.Y. Li and Z.C. Pei	628
A Design of Position Closed-Loop Control System for Hybrid Stepping Motors Based on	028
Mechanical-Sensorless Rotor Position Detection Y. Zhou, Z.G. Cheng and X.Y. Tuyu	632
The Laser Focus Position Control System Based on Motion Controller Y.L. Zhang	636
Design of Sewage Treatment Automated Control System	030
Y. Hong	639
The Machining Simulation of High-Tooth Logarithmic Spiral Bevel Gear Q. Li, H. Yan, H.B. Yan and L. Li	642
Study on Parameters of Deep-Hole Loose Blasting under the Condition of High Stress Z.T. Zheng and Y. Xu	646
The Contrastive Analysis of Bending Strength Computing Methods of Concrete Filled Steel Tube Member	
K.P. Gao, Y. Li, B.H. Chen and L.L. Qi	650
Finite Element Analysis of Air Transportation Load-Unload Platform's Frame Using ANSYS	6.70
H. An, K. Wang, C.G. Liang and Y.R. Guo Lightweighting and Anticorrosion Design for Beach Cleaner	659
P.P. Xie, X.H. Ge and L.G. Ouyang	663
Software Anti-Interference Design of SCM Control System L. Ji	667
Analysis on Oil Extraction Progressing Cavity Pump Three-Dimensional Finite Element	
Model G.Y. Han, M.Q. Wang, Y. Hou and Q. Li	670
Design of a Kind of Minitype Shallow Water Power Underwater Vehicle Y.D. Wang and P.C. Wang	674
Numerical Simulation of Generator Air Duct Based on CFD Approach H. Chen, Y.L. Zhang, M.Q. Shi and Q.H. Chen	678

Automatic Control of Pulp pH Value S.W. Huang, G. Peng and L.F. He	684
Screw Conveyor Design and Discrete Element Simulation Analysis of the Rice Mill Y.H. Shi, G.Q. Zhang, N. Zhang and Z.P. Huang	689
Bridge Crane Monitoring and Management Control System J.W. Leng and B. Man	693
A Novel Direct Torque Control of Fault Tolerant Three-Phase Four-Switch Inverter Brushless DC Motor S.L. Wang and S.Y. Xie	697
Path Planning Based on Fuzzy Logic Algorithm for Robots in Hierarchical Control K. Jiang and C.G. Li	701
Vector Control of Permanent Magnet Synchronous Motor Based on Parameter Identification Technique J.G. Zhu, X.C. Wang and X.D. Hou	705
Research on Stator Flux and Rotor Speed Estimation for Induction Motor Based on Extended Complex Kalman Filter Y.D. Pan, Y.W. Guo and H.D. Li	709
SCR Experimental Study on Reducing NOx Emission of Diesel Engine J.Y. Ma, D.W. Qu and J. Li	714
Nozzle Opening Time's Impact on Flow Characteristis of SSCR D.W. Qu, S.H. Liu, L.Y. Fan and J.Y. Ma	718
Cement Raw Mill Based on PCS7 and PROFIBUS Production Line Automation Control System F. Wu	722
Variable Working Condition to the Influence of the Centrifugal Fan Impeller Wear Q.J. Kong, L.H. Li, J.H. Wang and J. Li	726
A New Intelligent CNC Compound Machine A.Q. Li and K. Tang	731
Buoyancy Control for Low-Speed Under-Actuated AUVs Y.L. Ye	735
The Design of a Voice Control System for Smart House W. Zhang and Y.H. Liu	741
Aerodynamic Characteristics Simulation Analysis of a Certain Type Changed Wing Drone Aircraft Based on CFD D.Y. Ma, M. Xu and Z.T. Chen	746
Analysis of Elastohydrodynamic Lubrication of Clamping Ball Screw of All-Electric Injection	751
C. Li, H.H. Wang, X.X. Ren and M. Liu Design of Traditional Hydraulic Steering System with Variable Power J. Li, J.T. Song, L.H. Wang and J.B. Yao	751 755
Model and Dynamic Characteristics of Electromagnetic Split Clutch for Hydraulic Power Steering Application	750
B. Tang, H.B. Jiang and G.Q. Geng The Vibration Characteristic Research of the Transmission System of the Rolling Mill Based on Absolute Node Coordinates	759
H. Xu, D.G. Shang, S.Y. Li and L.X. Gao	763
Improved Modular Design of Remote Controller S. Yang	769
Key Technologies of the Embedded Deformation Measuring Control System Based on SOPC Q.H. Song	773
A Design of Broadcast Transmitter Control System	
H.S. Dang, C. Xie and S.S. Gao Research of Virtual Machine Based on UG and VERICUT X.M. Zhu and H.Y. Yang	777 782
Design of a Vending Machine Control System H.Y. Yang and X.M. Zhu	786

Design of Quadrotor Helicopter Based on STM32 Z.W. Huang, Z. Chen, B.P. Bian and Y. Tang	790
Impact of Connecting Reactor on Stable Operation of Chain SVG Device Z.D. Liu, D.S. Xi, Q. Liu, L. Shi, S.H. Wang, J.H. Wang and J.Y. Chen	794
Numerical Simulation of Helmeted Headform Drop Test Based on the EN1078 Standard C.Y. Hsu, T.L. Teng, C.C. Liang, W.C. Kuo, C.J. Shih and V.H. Nguyen	798
Research on Three-Dimensional Displaying Technology of Rotary Entity Based on IGES K.M. Pang, Y. Zhang, X. Shi and W.J. Zhao	803
Spindle Optimization Design of the Rice Mill Based on ANSYS Workbench Y.H. Shi, G.Q. Zhang, N. Zhang, F. Wang and Z.P. Huang	807
Design and Development of Economic Type Mechanical Engraving Machine Y.X. Chen	813
Design and Test Development of a Comprehensive Performance Test Bench for Electric	
Wheel P. He, Z.R. Dong, C.W. Han and S.H. Hu	817
The Application of Polling System in Intelligent Transportation System C. Li, H.W. Ding, Q.L. Liu and X. Lu	823
Design of Energy-Saving Control Software Algorithms in Large Industrial Network W.L. Liu	828
Hydraulic System Reliability Analysis of Slurry Transportation Based on Stochastic Failure	
Petri Net D.D. Wang, L.X. Liu and P. Sun	832
Strategic Analysis and Experimental Research on Synchronization Control of Dual-Motor in Crane	
Y.Q. Liu, X.F. Liu and H.X. Wang	836
Research on Aero-Engine Lubricating Real-Time Oil Measurement Method B.F. Shan, F.C. Mo, J.C. Li and Z.P. Tian	840
Design of DSP-Based Automatic Seam Tracking Underwater System F. Yang, W.M. Zhang and W.C. Jiao	845
3-D Dynamic Simulation of the High-Speed Measurement Turbine under Cavitation Y. Chen, H. Zhang and S.J. Ma	849
Improvement and Test on Ditcher Chain Transmission System of the Machine for Rice-Wheat Cyclic Planting Y.L. Chen, W. Qiu, W.M. Ding, Y.N. Li and Y.T. Liu	853
Relevance of Correlation Dimension and Kolmogorov Entropy in the State Discriminant of	
Gearbox X.D. Mao, H.Q. Yuan and H.G. Sun	858
Study on Dynamical Simulation of Railway Vehicle Bogie Parameters Test-Bench Electro- Hydraulic Servo System	
Z.K. Lan, J. Su and H. Mei	863
Modeling and Friction Effect of Shipborne Tracking Antenna Servo System D.X. Zhu, X.R. Wang and G.P. Zhang	867
Analysis of Factors Influencing Velocity Difference of Heavy Oil Reservoir Gravity Drive Z.D. Li	871
The Research on Height Control of Airship with Constant Flying Speed X.L. Zhang, Y.A. Hu and D. Liu	875
Application Study on Finger Joint Motion in Rehabilitation Training J.J. Yu	879
Research on an Electronically Controlled Gas Fuel Injection Device Using Moving Coil and	
Mushrooms Type Valve W.Q. Ge, Y.J. Zhao, B. Li and B.B. Sun	884
Chapter 2: Measurement and Instrumentation, Monitoring, Testing and Detection Technologies	

Clock Synchronization Technology Research for Distributed Automatic Test System $M.\ Li$

891

The Stress Monitoring Analysis of PC Continuous Beam Bridge Y.X. Yang and W.Y. Fan	895
Research on Complex System of Prognostics and Health Management X.M. Li, X.D. Lin, D.G. Li, Z.S. Feng and P. Zhao	899
Research on Improved PSO Algorithm Based on Contour Detection D. Li	903
Co-Evolutionary Implementation of Edge-Detection Algorithm Based on Multidirectional Gradient Edge Detection Predictor X.Y. Dang	908
A New Image Edge Detection Method Based on GAP Predictor and Genetic Algorithm X.Y. Dang	912
A New Test Device for Mechanical Ruling Process of Aluminum Grating G.F. Shi, Y.D. Zhou, X.X. Zhang, X.X. Liu, X.Y. Kou and G.Q. Shi	916
Research on Acoustic Characteristics Measurement by Using LabVIEW B.H. Zhang, S.M. Sun and S. Zhang	920
Research on Target Tracking and Early-Warning for the Safety of Coal Mine Production Z.L. Li and A.L. Xie	925
Adaptive Moving Vehicle Detection Algorithm Based on Hybrid Background Subtraction and Frame Difference	
Y.L. Luo, H.L. Wan, L.X. Xue and Q.B. Gao Determination of Generalized Basic Probability Assignment Based on Interval Numbers	930
R.H. Wang, P.D. Xu, X. Chen and Y. Deng	934
Exploration of Detecting Method of Waste Oil W.X. He	939
Development of Detection System in 3m Steel-Belt Friction Transmission S. Mou, Z.P. Chen, E.D. Xu, J.L. Jin and J. Tong	943
Indoor Environment Remote Monitoring System Designed Based on ZigBee and GSM Z. Zhang, L. Zeng, X.P. Tao and C. Wang	947
An Automatic Collision Avoidance System Based on LiDAR H. Yang, A.Q. You, W.W. Pan and H.L. Tang	952
Research on the Key Equipment Performance of Stage Video Surveillance and Scheduling System Based on IP Network Y.H. Li, X.D. Zhang, Z.C. Feng and Z.H. Luan	957
Study on Computer Failure Analysis and its Testing Methods	961
X.L. Shi, X.P. Shi and Z.T. Zhang Design and Realization of an Avionics Equipment Testability Model Based on TADS	
J. Zhao, W.J. Zhao and Q. Zhang An Design Method of Underwater Positioning System Based on USBL	964
L. Zhang	968
Fault Monitoring System of Shearer Based on DSP X.M. Ma and G. Wang	973
An Improvement on Sensitivity Test for Micro-Power Wireless Communication Z.Z. Xiong, X. Lu and Y.S. He	977
Research on Fault Diagnosis Technology for Aviation Equipments Based on IETMs W.W. Jiang, H. Yin, J. Yan, X.Q. Hou and L. Zhang	982
Research on Remote Wireless Concentrate Monitoring System of Substation Bus Voltage H.J. Cheng, P.J. Jiang, L.Y. Sun and G.C. Ren	986
A Lane Detection Method Based on Feature Point Segmented Fitting M. Bai, M.H. Li and Y.J. Lv	990
Adaptive Algorithm Based on Wavelet and SVM for Turbopump Fault Detection T. Hong and S. Yang	994
The Design of Automatic Test System for Units of Police Communications Equipments Q. Liu and Y. Wang	1003
Measurement Matrix Construction Based on Differential Evolution Algorithm H. Xu	1007
Study on Wireless Mesh Network Technology Applied to the Monitoring and Control System for the Large-Scale Solar Power Station	1007
H.C. Yao and R.B. Ye	1011

Gait Period Detection Based on Layered Coding of Depth Information H.L. Zhang, X.Y. Ben, P. Zhang and T.J. Liu	1015
Combine Harvester Noise and Emissions Detecting System Based on Virtual Instrument Y.W. Zhang, D. Wang and S.M. Wang	1019
Implement an End-to-End User Perception Improved Monitoring and Analyzing System E. Tong, F. Ding, Z.W. Pan and X.H. You	1023
70GHz Photodetector's Pulse Waveform Measurement at NIM J.W. Li, N. Xu, H.Y. Gan, J. Li and Z.X. Zhang	1027
Frequency Response Bandwidth Calibration of High Speed Photodetector Using Frequency-Stabilized Laser by Optical Heterodyne Technique N. Xu, J.W. Li, J. Li and Z.X. Zhang	1031
Face Detection System Based on SIFT Algorithm M.Z. Li and H.W. Zhao	1035
Damage Evaluation of Lead-Free Solder Joints Based on Micro-Electrical-Resistance Strain Measurement	1020
G.Y. Zhang and Z.Q. Wang Research and Simulation of Optical Measurement Model in Chemical Pollution of Water	1038
T. Zhu The Purity Detection Method of Gem Material Based on the Echo Reflection	1042
H.Y. Qin	1046
Damage Detection Method for Pear Based on Computer Vision Q. Dong and Z. Wen	1050
Research on High-Density Network Intrusion Features Detection Algorithm T.F. Lv	1054
Study on the Earthquake Resistance Detection System of High-Rise Residence X.Y. Deng and H.B. Chen	1058
Design of Health Monitoring Platform Base on Medical Wisdom J.L. Zhang, J. Wang, X.S. Lv and Y.P. Han	1062
Image Texture-Based Vehicle Cast Shadow Elimination Approach D.M. Zhou, M.X. Zhang and Y.X. Dai	1066
An Optimized Fabric Self Collision Detection Method X.L. Zhang, B. He and X.D. Lin	1070
Design of Wireless Monitoring System for Electric Equipment Based on CC2530 Z.H. Lee and Y.D. Wang	1074
Implementation of a Design for Oxygen Saturation Measurement System J. Liu, H.Z. Chen and X. Zhu	1079
Research on Anomaly Detection Based on MNF in Hyper Spectral Imagery G. Yang, Z.X. Lei, H.N. Wu, Q.Q. Meng and G.P. He	1085
An Analysis of the Existing Problems of China's Coal Mine Safety Monitoring and Control System	
X.Z. Hu, J.K. Wang, X.Z. Li and J. Li Abnormal Network Traffic Detection Passed on Conditional Event Algebra	1089
Abnormal Network Traffic Detection Based on Conditional Event Algebra D.G. Sun, K. Yang, X. Jing, B. Lv and Y. Wang	1093
Seeds Microscopic Image Edge Detection Based on the Clustering Method and Applied in Andriod Platform X.F. Guo and Y.L. Zuo	1100
Shape Features Detection Based on Hough Transform in Images G.L. Chu and Y.J. Wang	1104
The Design and Implement of Signal Oriented Self-Test Program F.Q. Wang, X.F. Lv and Y. Liu	1107
An Aircraft Parts Field Measurement System Based on Industrial Robotics L.Y. Xia and F.H. Zhang	1111
Resource Allocation and Code Optimization in Auto Test System Y. Liu, X.F. Lv and F.Q. Wang	1115
Analysis of the Measuring Model of Auto-Evaluation System of Railway Coupler J. Huang, S.H. Chen, K. Zheng and F.H. Zhang	1118
A New Maneuvering Target Detection Algorithm in OTHR H.Y. Li, W.G. Li, J.F. Hu, H. Ai and Z.R. Lin	1122

Approach to Intent Recognize Based on Petri Nets S.F. Wang and L. Zhang	1126
Research on Uncertainty Evaluation of the Measuring Results for Low-Scale Brinell Hardness Block F. Dong and Y.B. Liu	1132
Rough Set-Based Data Analysis in Converter Fault Diagnosis for Hybrid Power Substation D.J. Ren	1136
Research and Application of Facility Agriculture Monitoring and Early Warning Technology	1120
L. Ma and H.L. Yu	1141
Research of Multi-Channel Vehicle Brake Performance Testing System Z.Q. Yi and P. Nan	1144
Research of Intelligent Stride Characteristics Analysis Inspection System J. Peng, X. Wu, P. Nan and Y. Liu	1149
Research of Image Edge Detection Algorithms Based on Android Platform Y. He, T.L. Li and Y.Q. Zhang	1154
Design and Realization of Test System for UAV Aeronautic Electronic Equipment Z.X. Qian and Y.X. Shi	1158
Network Intrusion Detection Data Processing Research Based on Concept Clustering AOI Algorithm R.Y. Xu	1160
Sequential Detection Using an Ordered Statistics Method	1162
X. Yan and F. Li A Fact Algorithm Detection for Boroada Inclination Defeat	1166
A Fast Algorithm Detection for Barcode Inclination Defect Y.L. Qi, Y.L. Li, C. Wang and L.K. Lu	1172
The Application Research of Data Mining in the Intrusion Detection F.L. Liang	1176
Design of Ground Monitoring System Guidance System Based on Virtual Instrument B. Zhang	1180
Research on the ARM-Based Smart Home Remote Monitoring System Y.Q. Liu	1185
Leaking Detector Based on DSP L. Zhang	1189
Fault Diagnosis of Some Equipment Based on BP Neural Network Q. Li, D.L. Sun, L. Zhang and X.Q. Wang	1193
Research on Decoding Scheme of SGs Interface in LTE Network Monitoring System R. Wu and Z.Z. Zhang	1197
Automatic Test System for Frequency Response Characteristics of SAW Device C.B. Wen, T. Yang, C.F. Xue and Y.F. Ju	1201
Disturbance Detection Method of Power Quality Based on Mathematical Morphology and Lifting Wavelet	
X.F. Wang, X. Chen, N.X. Yang, X.J. Zhang and Y.C. Hu	1205
The Application of Geophysical Methods in Groundwater Pollution Detection X. Zhang and J. Yang	1209
The Research on Magnetic Target Detection Technology Based on Wireless Sensor Network B.Z. Hu, M.C. Pan, P. Jiang, W.G. Tian, J.F. Hu and J.H. Hu	1213
Research for Fault Detection of Power Distribution Line Based on Hilbert-Huang Transform	
H.O. Yan, J.Q. Zhai, J.B. Lian, K. Wang and Z. Zhan	1218
Study on Piezoelectric Smart Structures Integrated Measurement and Control System Based on DSP J. Yao	1223
Fault Diagnosis Based on Qualitative Data by Gray System Theory	
L. Zhang, Z.J. Liu, D.L. Sun and D.H. Yang The Determination of Air Material Consumption Quota with Life	1227
Y.Q. He, J.J. Li, H.Y. Guo and T. Wang	1230
Research on Calibration Method of Linear Structured Light Vision Measurement System T. He, Y.L. Xie, C.S. Zhu and J.Y. Chen	1234

A Novel Framework for Multiple People Tracking Using Camera Networks with Overlapping Views	
A.C. Li and J.Q. Wan	1240
Sharing Technology of the Tracking Telemetry and Command Software Y.G. Li, Z.D. Xi, S. Hao, L.B. Guo and Y. Wang	1245
Research and Design of Embedded Intelligent Monitoring System for Plant Factory J.W. Leng and G. Wang	1249
Moving Object Detection Based on the Fish L. Li, J.Y. Song and Z.Y. Yan	1253
The Design of Vehicle-Carried Data Acquisition and Monitoring System for Large-Scale Railway Maintenance Equipment Based on Embedded Linux and 3G Technology J.F. Yu, J.L. Yang, R. Li and H.R. Wang	1257
Research on Aircraft Target Detection Probability for OTHR J. Jia, W. Sheng and L. Zhang	1261
The Study on the Method of Vehicle Detection and Tracking Based on Gaussian Mixture Model and Kalman Filter	
L.Y. Lin and L. Chen	1266
Design of Voice Prompt Temperature Detection System C.H. Zhao, C.Y. Ning and X.Q. Ji	1270
An Accurate Positioning Method of Image Target Based on Sub-Pixel J.H. Lin, G. Fu and X.L. Yao	1274
A Novel Compensation Method for Time-Grating Sensor's Dynamic Measurement Error S.Z. Sun, D.L. Peng and F.Y. Zheng	1278
Design and Implementation of the Insert Temperature Measuring and Control System J.X. Li	1282
Control Precision Test Equipment Design of an Anti-Aircraft Gun Servo System X.S. Duan, G.L. Shan and J. Xiao	1286
Research on Real Performances of Special Optoelectronics Devices Inconformity to their Test Results in Electricity Parameter Detection X.G. Zhang and X.g. Zhang	1290
Research on Signal Detection in Linear Frequency Modulation Model H.S. Liu and J. Wei	1294
A Study on HT32F1765 MCU-Based in Smart Home Gas Monitoring D.Y. Qiao, F.Q. Gao, X.M. Lin, Z.Z. Wang and Z.J. Lin	1298
An Automatic Calibration System for Multimeter Based on Fluke MET/CAL N. Li, G.D. Liang, L. Yang, Y.P. Ji and S.Y. Li	1303
Analysis of the Pitch Diameter Measurement Based on Three-Pin/T-Shaped Probe and Thread Scanner	
Y. Zhang, Y. Wang and X.Y. Yao	1307
Research of Landmine Detection Using Terahertz Technology Q. Miao, G. Wang and Y.J. Li	1313
Large-Scale Structural Health Monitoring Based on Wireless Sensor Networks A.L. Yu, W.W. Yang and J.Q. Dai	1317
The Research of Travel Time Estimation Based on Vehicle License Plate Auto Recognition System	
Y.H. Li and Z. Li	1324
Optimizing Gaze Typing with Pupil Size for People with Severe Motor Disabilities X.S. Wang	1330
Research of Measuring and Control Technology of Shipborne Satellite Antenna Auto- Tracking System X.K. Wang	1334
Study of Transportation Corridor of the Dangerous Mountainous Areas Based on GIS	
R.H. Chen, X.X. Chen, Y. Gao and T. Zhao Theoretical Analysis on Retro-Reflected Wave Power Based on "Cat-Eye" Effect in	1338
Defocusing Condition M.X. Zhang, Y. Lv, X.Y. Li, R. Geng and L.G. Sheng	1342

Optical-Mechanical-Electrical Integrative Design of Fiber Optic Gyro/Beidou/Odometer Integrated Navigation System	
X.Y. Zhang, X.J. Yi and C.X. Zhang	1346
Software Design and Implementation of Large-Scale Intelligent Traffic Monitoring System J.Y. Wang	1351
Research on the Automatic Monitoring System for Coal Mining Subsidence X.X. Yu, W.C. Lü, F.W. Jiang, H. Huang, Y.F. Hang, X. Yang and Y.Z. Zhu	1355
Double-Clad Yb-Doped Fiber Laser and its External Cavity Frequency-Doubling Z.K. Bao, J. Wang, G.Z. Wang, L. Tao, X.Y. Zhu and Y. Zhang	1361
Study on Wireless Weighing System C.B. Wen, L.H. Gao, Y.F. Fu, Y.M. Li and Y.F. Ju	1365
The Gyro Error Analysis Based on Allan Variance X.Y. Dai and Z.G. Chen	1369
Research and Design of Intelligent Agricultural Management System Based on Zigbee X. Ming	1372
Three-Dimensional Inversion and Visual Expression of Two-Dimensional Data in High Density Resistivity Method	
D.X. Ma and R.Q. Du	1377
Creep Prediction From Stress Relaxation Coupled With Equivalent Relaxation Rate J.Q. Guo, W.Z. Meng, F. Li and L.X. Wang	1382
Have I Ever been to this Place? A SIFT Based Method for UAV M.J. Zhang, L. Liu, J.J. Zhang, W.G. Wang, C.H. Wei and T.R. Zheng	1386
Research on Crowd Evacuation Simulation in Complex Mountainous Terrain Area Based on Cellular Automata	
B. Meng, T. Liu and N. Lu	1391
A Trajectory Basis Selection Method for Non-Rigid Structure from Motion Y.M. Wang, J.B. Zheng, M.F. Jiang, Y.L. Xiong and W.Q. Huang	1396
Usability Evaluation of Eye Tracker-Based Smart Phone APP GUI Design F.Y. Chang	1400
Classification of Apple Varieties Using FT-NIR Spectroscopy and Possibilistic Learning	
Vector Quantization B. Wu, X. Li, S.W. Qiu, X.H. Wu and M. Li	1405
Study on the Time-Grating Sensor Method of the Static Light Field Type Based on Timing- Driven	
M. Fu, D.L. Peng, Y. Li and J. Lu	1409
Research on Data Parallel Synchronous Transmission Technology Based Virtual Radio	
G. Fu, J.H. Lin and Q. He	1414
G. Fu, J.H. Lin and Q. He Research of Condensed Matter Physics Based on Ultrafast Spectroscopy D.F. Wang	1414 1418
Research of Condensed Matter Physics Based on Ultrafast Spectroscopy	
Research of Condensed Matter Physics Based on Ultrafast Spectroscopy D.F. Wang Experimental Study of Nozzle Characteristics by Drainage Method	1418
Research of Condensed Matter Physics Based on Ultrafast Spectroscopy D.F. Wang Experimental Study of Nozzle Characteristics by Drainage Method D.W. Qu, Z.C. Sa, L.Y. Fan and J.Y. Ma The Study of C-Waveband Dual-Wavelength Erbium-Doped Fiber Laser J.Z. Bai, J.C. Lin and N. Jia A Novel Method with Good Repeatability and Stability for Calibrating Milliampere-Second	1418 1422
Research of Condensed Matter Physics Based on Ultrafast Spectroscopy D.F. Wang Experimental Study of Nozzle Characteristics by Drainage Method D.W. Qu, Z.C. Sa, L.Y. Fan and J.Y. Ma The Study of C-Waveband Dual-Wavelength Erbium-Doped Fiber Laser J.Z. Bai, J.C. Lin and N. Jia	1418 1422
Research of Condensed Matter Physics Based on Ultrafast Spectroscopy D.F. Wang Experimental Study of Nozzle Characteristics by Drainage Method D.W. Qu, Z.C. Sa, L.Y. Fan and J.Y. Ma The Study of C-Waveband Dual-Wavelength Erbium-Doped Fiber Laser J.Z. Bai, J.C. Lin and N. Jia A Novel Method with Good Repeatability and Stability for Calibrating Milliampere-Second Meter T.Y. Sun, Y.B. Liu, T.S. Wei and F.C. Yin The Influence of High-Frequency Phase of Laser Wavefront on the Distribution of Focal Spot	1418 1422 1426 1429
Research of Condensed Matter Physics Based on Ultrafast Spectroscopy D.F. Wang Experimental Study of Nozzle Characteristics by Drainage Method D.W. Qu, Z.C. Sa, L.Y. Fan and J.Y. Ma The Study of C-Waveband Dual-Wavelength Erbium-Doped Fiber Laser J.Z. Bai, J.C. Lin and N. Jia A Novel Method with Good Repeatability and Stability for Calibrating Milliampere-Second Meter T.Y. Sun, Y.B. Liu, T.S. Wei and F.C. Yin The Influence of High-Frequency Phase of Laser Wavefront on the Distribution of Focal Spot F.X. Fu	1418 1422 1426
Research of Condensed Matter Physics Based on Ultrafast Spectroscopy D.F. Wang Experimental Study of Nozzle Characteristics by Drainage Method D.W. Qu, Z.C. Sa, L.Y. Fan and J.Y. Ma The Study of C-Waveband Dual-Wavelength Erbium-Doped Fiber Laser J.Z. Bai, J.C. Lin and N. Jia A Novel Method with Good Repeatability and Stability for Calibrating Milliampere-Second Meter T.Y. Sun, Y.B. Liu, T.S. Wei and F.C. Yin The Influence of High-Frequency Phase of Laser Wavefront on the Distribution of Focal Spot F.X. Fu 3D Restructuring and Splicing Technology of Shape Space Frame Y.M. Cui, H. Wang and J. Zhang	1418 1422 1426 1429
Research of Condensed Matter Physics Based on Ultrafast Spectroscopy D.F. Wang Experimental Study of Nozzle Characteristics by Drainage Method D.W. Qu, Z.C. Sa, L.Y. Fan and J.Y. Ma The Study of C-Waveband Dual-Wavelength Erbium-Doped Fiber Laser J.Z. Bai, J.C. Lin and N. Jia A Novel Method with Good Repeatability and Stability for Calibrating Milliampere-Second Meter T.Y. Sun, Y.B. Liu, T.S. Wei and F.C. Yin The Influence of High-Frequency Phase of Laser Wavefront on the Distribution of Focal Spot F.X. Fu 3D Restructuring and Splicing Technology of Shape Space Frame Y.M. Cui, H. Wang and J. Zhang Temporal Spectra Behavior in Femtosecond LIBS of Marine Water A. Ilyin, S. Golik, Y. Biryukova, M. Babiy and D. Apeksimov	1418 1422 1426 1429 1433
Research of Condensed Matter Physics Based on Ultrafast Spectroscopy D.F. Wang Experimental Study of Nozzle Characteristics by Drainage Method D.W. Qu, Z.C. Sa, L.Y. Fan and J.Y. Ma The Study of C-Waveband Dual-Wavelength Erbium-Doped Fiber Laser J.Z. Bai, J.C. Lin and N. Jia A Novel Method with Good Repeatability and Stability for Calibrating Milliampere-Second Meter T.Y. Sun, Y.B. Liu, T.S. Wei and F.C. Yin The Influence of High-Frequency Phase of Laser Wavefront on the Distribution of Focal Spot F.X. Fu 3D Restructuring and Splicing Technology of Shape Space Frame Y.M. Cui, H. Wang and J. Zhang Temporal Spectra Behavior in Femtosecond LIBS of Marine Water	1418 1422 1426 1429 1433 1438

Semiconductor Quantum Dot Photodetector for High Speed Space Optical Communication M.T. Zhao	1456
A High Accuracy Sub-Pixel Light Spot Positioning Algorithm L.G. Sheng, Y. Lv, L.S. Liu, R. Geng and X.Y. Li	1459
The Weighted Multilateral Positioning Algorithm Based on Time Reversal Ranging Z. Zhang, X.P. Tao, L. Zeng and C. Wang	1464
Numerical Simulation on Air Mass Capture Control of Hypersonic Inlet by Laser Energy Q. Li, Y.J. Hong, W. Zhao and D.K. Wang	1470
Application on the Rifle Grenade of One-Dimensional Trajectory Correction Y.A. Li, J.Z. Wang and Q.S. Liu	1474
Research of a High Precision Time Synchronization Method Based on GPS Calibration B.X. You, J. Bu, M.H. Yin and Y. Zou	1477
Chapter 3: Numerical Methods, Computation Methods and Algorithms for Modeling, Simulation and Optimization, Data Mining and Data Processing	
A Complex Event Model Combination Method Based on Multiple Tuples H.L. Wang	1483
A Fast Algorithm Based on Discrete Cosine Transform(DCT) X.H. Huang, W.Z. Huang, K. Yuan and K. He	1488
G(1,1,λ,ρ) Optimization Model and Application Based on the FS H.L. Wang, Z.H. Ren, L.X. Xue and Y.L. Luo	1494
Distortion Analysis in the Axial Offset Parallel Video System S. Liu, M.C. Shan and X.J. Kong	1498
The Attractor of 2D Autonomous g-Navier-Stokes Flows with Linear Dampness J.P. Jiang and X.X. Wang	1502
A Layer Hybrid Intelligent Algorithm for Solving Resources Scheduling Problem Y.J. Ma, Z.H. Ren and P. Zhu	1506
An Particle Swarm Optimization to Alloy Tensile Organization Evolution L. Meng	1510
Optimization Research in Heat-Moisture Comfort Evaluation System Parameters of Fabric Based on Matlab H.L. Gu and W. Zhang	1514
Determination Analysis Model of Inter-Regional Power Replacement in our Country T. Lei, C. Qin, W. Xie, L.W. Ju and Z.F. Tan	1519
User Oriented Semi-Supervised Document Clustering R.F. Zhou, L. Yang, L.H. Wang and Q.J. Sun	1523
Radio Resource Allocation Algorithm Based on Bargaining Game Theory for LTE System H. Yin and D. Zhang	1527
Numerical Analysis of Temperature Field on the Desktop Computer Motherboard M.D. Li, C. Qiu and Z.S. Zheng	1531
Structural Coupled Imaging of Multi-Physical Data Using Damped Least Squares Technique	
J.J. Zhou, X.H. Meng, L. Ren, J. Wang and S. Zhang Enhanced Discrete Element Method (EDEM) and its Application to Stability Analysis of the	1535
Slope with Non-Through Joints Y.Z. Ma, K.J. Cai, Z.T. Li and J. Li	1539
An Interpolation Method for Data Containing Distortions and its Application to Aeromagnetic Data Preprocessing S. Zhang, Y.H. Mang and Y.N. Liu.	1543
S. Zhang, X.H. Meng and Y.N. Liu A Combination Model of Theil Coefficient and Induce Ordered Weighted Averaging (IOWA) Operator Based on Improved Bee Colony Algorithm	1343
W.X. Gong, G.C. Chen and Z.H. Feng The Convergence of the H-P Version of the Finite Element Method with Quasi-Uniform	1547
Meshes for Three Dimensional Poisson Problems with Edge Singularity J.M. Zhang and Y. He	1551

An Improved Axiomatic Definition and Structural Formula of Interval-Valued Intuitionistic Fuzzy Entropy	
M.M. Gao, T. Sun, R.P. Xu, L. Song and H.Q. Zhang	1556
An Approach to Judge Impact Factor of Driver Decision-Making Research Based on Grey Relation Entropy Analysis J.Y. Li and M.X. Song	1560
Chaotic Ants Swarm Optimize Least Square Support Vector Machine G.X. Mao	1564
A Green Function of Vertical Interfacial Point Source SH Wave Scattering by a Circular Lining in an Elastic Quarter Space H. Qi, G.L. Luo, X.N. Pan and C. Gao	1569
Research of Feature Extraction Based on Improved LBP H.J. Zhang, P. He, C. Liu and Y. Guo	1573
Study of User Interest Model Based on News Recommendation R.R. Cheng, H.P. Chen and Z.H. Wang	1577
Dynamic Stress Concentration of a Circular Cavity Subjected by Steady Plane SH Waves in an Elastic Quarter with a Semi-Circular Canyon H. Qi, L.M. Cai, X.N. Pan and C. Gao	1581
New Variational Iteration Procedure for some Parabolic Equations with Fourth-Order Derivatives	
J.F. Wang, Y. Liu and H. Li	1585
Research on Relative Reducts of Rough Set Model in Consistent and Inconsistent Decision Tables T. Yan and C.Z. Han	1590
A Novel Approach Based on Rough Conditional Entropy for Attribute Reduction	1390
T. Yan and Ĉ.Z. Han	1607
A Statistics-Based Data Placement Strategy for Hybrid Storage Y.H. Yang, X.B. Xu, S.B. He and Y.H. Wen	1620
Research on Geophysical Modeling Using Extreme Learning Machine for Scatterometer B.H. Duan, W.M. Zhang and C.Z. Zhu	1625
Research on Knowledge Resource Clustering Based on K-MEAN Algorithm X.D. Zhuo, W. Cui and Y.C. Qiu	1629
Study on Model for Structural Reliability Based on Dynamic Interfering Theory X.Y. Liu, X.B. Ma, B.Q. Diao, Y.L. Xu and Q. Wang	1633
A Novel Twin Support Vector Machines with Manifold Regularization X.P. Hua and X.F. Li	1640
The Special Form of Second Order Accuracy N-S Equations for Incompressible Fluid Z.S. Li and S.J. Zhu	1644
The Algebraic Algorithm for Solving the Path Planning Problem of a Weighted Directed Graph	1.640
Y.P. Li, K. Wei and D. Wang	1648
Approximation Analysis for a New Kind of Neural Network Using Rational Spline Weight Functions D.Y. Zhang and S.J. Hou	1654
Complexity Analysis of Neural Network Based on Rational Spline Weight Functions D.Y. Zhang and H.N. Yang	1658
A Clutter Suppression Algorithm for GPR Data Based on PCA Combining with Gradient Magnitude	
Q.Q. Lu, J.X. Pu, X.H. Wang and Z.H. Liu	1662
Construction of Asymmetric Quantum Product Codes Based Repeated-Root Cyclic Codes P.Y. Fu and W. Liu	1668
Study on Reconstruction Property of Revolved Surface Based on B-Spline R.C. Sun, D. Liu, J.Q. Zhao, Y.P. Qian and G.F. Yi	1674
Research on Classifying in Large Scale Documents Based on Analysising Style of Language by Language Cadence	
F. Chen and W. Tian	1678
Simulation of Hydraulic Characteristic of Injecting Cable into Coiled Tubing Y. Ding, F. Niu, S.M. Zhang and J.J. Zhang	1682

A Five-Point Non-Stationary Interpolating Scheme F.Y. Yan and H.C. Zheng	1689
Research on Security of Database in Cloud Computing Environment L.H. Wang	1694
Research of Ship Domain Based on AIS Data X.K. Wang	1698
Design and Implementation of Data Mining Based on Distributed Computing J.H. Zhang	1702
Research on Data Copy Technique Based on Cloud Storage J. Qin and P. Zong	1706
Selective Encryption Algorithms of MPEG2 Digital Video Server Based on Location Files M. Zhong, X. Ran, F. Cheng, P.P. Jiang and W.H. Jin	1710
RETRACTED: The Impact of Lossless Information on Algorithms X.P. Wang	1714
An Algorithm for Mining Weighted Negative Sequence Pattern M.S. Yang, H. Jiang, H.J. Yu, X.F. Li and D. Ding	1717
Study on Multidimensional Negative Association Rules H. Jiang, A.X. Yang and H.J. Yu	1721
Visual Growth Model Research of Gramineous Adventitious Root System Y.Y. Yin	1725
Digital Growth Model Research on Repent Stem of Grasses Y.Y. Yin and L.F. Chen	1729
Interacting Multiple Model LK Tracking H. Wang and J. Deng	1733
The Optimization Algorithm and Applied in Soil Fertility Evaluation Based on Data Mining L. Ma and G.F. Chen	1737
Simulation Analysis of the Three-Dimensional Ball Motion X.G. Zhou	1741
Application of Three-Dimensional Virtual Model in the Field of Architectural Design Y.M. Tang	1745
The Effective Classification Process Analysis of the Big Data in Construction Project Q. An	1749
Hand Grasping Choice and Analysis for Tasks T. Xu	1752
Implementation and Formalization of the Digital Contents' Data Using OWL and DL into the Reasoning Modules	
K.A.L. Khamis, L. Zhong and H.Z. Song	1759
CFD Modeling of Hydrogen Releases and Dispersion in the Exhaust Pipe of Rocket Tank J.P. Chen, Y. Li, C.Y. Cui, Y.C. Jiang, X. Li and X.Y. Li	1764
Security Risk and its Solution for Water Resources Specific Cloud Computing Platform L. Lin, L. Miao, X.L. Jiang and G.H. Wang	1769
The Dynamic TERCOM Algorithm of Underwater Positioning Based on Terrain Entropy X. Shuai, S.C. Wu and N.B. Luo	1774
Design and Research of Logistics Product Anti-Counterfeiting Algorithm Based on 3D Computer Vision L. Zhu and L. Bai	1778
Immune Clonal Spectral Clustering for PolSAR Land Cover Classification L. Liu, D. Sun, W.Q. Wang and R.C. Niu	1783
Research of Data Mining Algorithm Based on the Intrusion Prevention System X.H. Zhang	1787
The Research in Satellite Television Channel Landing Fee of China Based on PageRank Algorithm	
X. Wang, J.B. Liu, J.P. Chai and H.L. Wang	1791
Methods of Projecting 2D Wrinkle Curves onto a 3D Model X.D. Lin, B. He and X.L. Zhang	1796
Research on Resource Scheduling in Cloud Computing: Issues and Solutions H. Suo and H.H. Yan	1801

Topological Structure and Spanning Trees of Rectangular Growing Network Models X. Liu, B. Yao, W.J. Zhang, X.E. Chen and X.M. Zhang	1805
Implement of Hyper-Graph System Based on Three-Dimensional Matrix Model H.J. Lan, Y.X. Tang, X.R. Song and G.L. Yu	1809
Distance Learning Classroom Communication System Based on Cloud Computing Y. Tang	1813
Mass Data Efficient Scheduling Model with Cloud Computing on Android Platform Z.J. Zhu and Y.X. Liu	1817
Simulation on Data Energy-Efficient Scheduling Model of Cloud Computing H.L. Guo and H.L. Yu	1822
The Application of Cell Mapping to Dynamic Modeling and Control L.L. Guo and Y. Wang	1826
Algorithm Analysis on Internal Automatic Calibration of Category Theory Based on Nonlinear Time Series Model	
J.H. Yu Research on Cloud Computing Strategy Based on Security Model	1830
S.P. Liu Research of Large-Scale Logistics Management Optimization Model	1835
L. Lu and S.M. Xu Numerical Simulation Analysis on Starting Transient Stress Based on Mobile Computing	1840
F. Wen Simulation Platform Design Based on LabView	1844
J.F. Wu and F.L. Wang Mechanism of the Landslides Subject to Water Level Fluctuation	1849
L. Song, H.Q. Zhang, F. Zheng and J.F. Ma An Invariant Electronic Descriptor for 3D Model Retrieval	1854
K.S. Zou, Q. Zhang, Z.J. Zhang and J.H. Zhang	1858
Establish and Evaluate the Standardization of the Digital Publishing Logistics X.H. Wang, Y.P. Du, H.F. Li and L. Wei	1862
G	
Generation and Application of Obstacles in Military Vehicle Equipment Running Simulation	1867
Generation and Application of Obstacles in Military Vehicle Equipment Running Simulation W.M. Zhang Optimization and Improvements of NEMO Routing Algorithm	
Generation and Application of Obstacles in Military Vehicle Equipment Running Simulation W.M. Zhang	1867 1871 1875
Generation and Application of Obstacles in Military Vehicle Equipment Running Simulation W.M. Zhang Optimization and Improvements of NEMO Routing Algorithm X.L. Tan, W.B. Wang and Y.Q. Yao The XML Data Mining Research Based on the Multi-Level Technology	1871
Generation and Application of Obstacles in Military Vehicle Equipment Running Simulation W.M. Zhang Optimization and Improvements of NEMO Routing Algorithm X.L. Tan, W.B. Wang and Y.Q. Yao The XML Data Mining Research Based on the Multi-Level Technology S.Y. Huang and P.F. Hu The Digital Protection Technology Research in Folk Craft M.H. Zhou and J. Yuan Analysis of Inland Ship Traffic Flow Organizational Characteristics Based on Traffic Wave Theory	1871 1875 1879
Generation and Application of Obstacles in Military Vehicle Equipment Running Simulation W.M. Zhang Optimization and Improvements of NEMO Routing Algorithm X.L. Tan, W.B. Wang and Y.Q. Yao The XML Data Mining Research Based on the Multi-Level Technology S.Y. Huang and P.F. Hu The Digital Protection Technology Research in Folk Craft M.H. Zhou and J. Yuan Analysis of Inland Ship Traffic Flow Organizational Characteristics Based on Traffic Wave Theory P.L. Zhang, Y. Liu and H.G. Liu	1871 1875
Generation and Application of Obstacles in Military Vehicle Equipment Running Simulation W.M. Zhang Optimization and Improvements of NEMO Routing Algorithm X.L. Tan, W.B. Wang and Y.Q. Yao The XML Data Mining Research Based on the Multi-Level Technology S.Y. Huang and P.F. Hu The Digital Protection Technology Research in Folk Craft M.H. Zhou and J. Yuan Analysis of Inland Ship Traffic Flow Organizational Characteristics Based on Traffic Wave Theory P.L. Zhang, Y. Liu and H.G. Liu Research and Analysis of Intrusion Prevention Based on Trusted in Cloud Environment S.T. Wang and J. Luo	1871 1875 1879
Generation and Application of Obstacles in Military Vehicle Equipment Running Simulation W.M. Zhang Optimization and Improvements of NEMO Routing Algorithm X.L. Tan, W.B. Wang and Y.Q. Yao The XML Data Mining Research Based on the Multi-Level Technology S.Y. Huang and P.F. Hu The Digital Protection Technology Research in Folk Craft M.H. Zhou and J. Yuan Analysis of Inland Ship Traffic Flow Organizational Characteristics Based on Traffic Wave Theory P.L. Zhang, Y. Liu and H.G. Liu Research and Analysis of Intrusion Prevention Based on Trusted in Cloud Environment S.T. Wang and J. Luo A New Algorithm for Euclidean Shortest Path of Visiting Segments in a Polygon L.J. Wang, A.S. Deng, B. Jiang and Q. Wei	1871 1875 1879 1883
Generation and Application of Obstacles in Military Vehicle Equipment Running Simulation W.M. Zhang Optimization and Improvements of NEMO Routing Algorithm X.L. Tan, W.B. Wang and Y.Q. Yao The XML Data Mining Research Based on the Multi-Level Technology S.Y. Huang and P.F. Hu The Digital Protection Technology Research in Folk Craft M.H. Zhou and J. Yuan Analysis of Inland Ship Traffic Flow Organizational Characteristics Based on Traffic Wave Theory P.L. Zhang, Y. Liu and H.G. Liu Research and Analysis of Intrusion Prevention Based on Trusted in Cloud Environment S.T. Wang and J. Luo A New Algorithm for Euclidean Shortest Path of Visiting Segments in a Polygon	1871 1875 1879 1883 1887
Generation and Application of Obstacles in Military Vehicle Equipment Running Simulation W.M. Zhang Optimization and Improvements of NEMO Routing Algorithm X.L. Tan, W.B. Wang and Y.Q. Yao The XML Data Mining Research Based on the Multi-Level Technology S.Y. Huang and P.F. Hu The Digital Protection Technology Research in Folk Craft M.H. Zhou and J. Yuan Analysis of Inland Ship Traffic Flow Organizational Characteristics Based on Traffic Wave Theory P.L. Zhang, Y. Liu and H.G. Liu Research and Analysis of Intrusion Prevention Based on Trusted in Cloud Environment S.T. Wang and J. Luo A New Algorithm for Euclidean Shortest Path of Visiting Segments in a Polygon L.J. Wang, A.S. Deng, B. Jiang and Q. Wei Content-Based Multimedia Files Search Technology	1871 1875 1879 1883 1887 1891
Generation and Application of Obstacles in Military Vehicle Equipment Running Simulation W.M. Zhang Optimization and Improvements of NEMO Routing Algorithm X.L. Tan, W.B. Wang and Y.Q. Yao The XML Data Mining Research Based on the Multi-Level Technology S.Y. Huang and P.F. Hu The Digital Protection Technology Research in Folk Craft M.H. Zhou and J. Yuan Analysis of Inland Ship Traffic Flow Organizational Characteristics Based on Traffic Wave Theory P.L. Zhang, Y. Liu and H.G. Liu Research and Analysis of Intrusion Prevention Based on Trusted in Cloud Environment S.T. Wang and J. Luo A New Algorithm for Euclidean Shortest Path of Visiting Segments in a Polygon L.J. Wang, A.S. Deng, B. Jiang and Q. Wei Content-Based Multimedia Files Search Technology X.X. Ma and D. Wu Numerical Analysis of Roof Pre-Splitting Roadway Effect in Incline Coal Seam	1871 1875 1879 1883 1887 1891 1895
Generation and Application of Obstacles in Military Vehicle Equipment Running Simulation W.M. Zhang Optimization and Improvements of NEMO Routing Algorithm X.L. Tan, W.B. Wang and Y.Q. Yao The XML Data Mining Research Based on the Multi-Level Technology S.Y. Huang and P.F. Hu The Digital Protection Technology Research in Folk Craft M.H. Zhou and J. Yuan Analysis of Inland Ship Traffic Flow Organizational Characteristics Based on Traffic Wave Theory P.L. Zhang, Y. Liu and H.G. Liu Research and Analysis of Intrusion Prevention Based on Trusted in Cloud Environment S.T. Wang and J. Luo A New Algorithm for Euclidean Shortest Path of Visiting Segments in a Polygon L.J. Wang, A.S. Deng, B. Jiang and Q. Wei Content-Based Multimedia Files Search Technology X.X. Ma and D. Wu Numerical Analysis of Roof Pre-Splitting Roadway Effect in Incline Coal Seam H. Jin, T. Ning and B. Yin A Dynamic Binary Group Approach for Fast Mining Frequent Closed Itemsets	1871 1875 1879 1883 1887 1891 1895 1899
Generation and Application of Obstacles in Military Vehicle Equipment Running Simulation W.M. Zhang Optimization and Improvements of NEMO Routing Algorithm X.L. Tan, W.B. Wang and Y.Q. Yao The XML Data Mining Research Based on the Multi-Level Technology S.Y. Huang and P.F. Hu The Digital Protection Technology Research in Folk Craft M.H. Zhou and J. Yuan Analysis of Inland Ship Traffic Flow Organizational Characteristics Based on Traffic Wave Theory P.L. Zhang, Y. Liu and H.G. Liu Research and Analysis of Intrusion Prevention Based on Trusted in Cloud Environment S.T. Wang and J. Luo A New Algorithm for Euclidean Shortest Path of Visiting Segments in a Polygon L.J. Wang, A.S. Deng, B. Jiang and Q. Wei Content-Based Multimedia Files Search Technology X.X. Ma and D. Wu Numerical Analysis of Roof Pre-Splitting Roadway Effect in Incline Coal Seam H. Jin, T. Ning and B. Yin A Dynamic Binary Group Approach for Fast Mining Frequent Closed Itemsets Y. Zhai and A.S. Deng A Key Management Algorithm Based on Fingerprint and Fuzzy Decision	1871 1875 1879 1883 1887 1891 1895 1899 1903
Generation and Application of Obstacles in Military Vehicle Equipment Running Simulation W.M. Zhang Optimization and Improvements of NEMO Routing Algorithm X.L. Tan, W.B. Wang and Y.Q. Yao The XML Data Mining Research Based on the Multi-Level Technology S.Y. Huang and P.F. Hu The Digital Protection Technology Research in Folk Craft M.H. Zhou and J. Yuan Analysis of Inland Ship Traffic Flow Organizational Characteristics Based on Traffic Wave Theory P.L. Zhang, Y. Liu and H.G. Liu Research and Analysis of Intrusion Prevention Based on Trusted in Cloud Environment S.T. Wang and J. Luo A New Algorithm for Euclidean Shortest Path of Visiting Segments in a Polygon L.J. Wang, A.S. Deng, B. Jiang and Q. Wei Content-Based Multimedia Files Search Technology X.X. Ma and D. Wu Numerical Analysis of Roof Pre-Splitting Roadway Effect in Incline Coal Seam H. Jin, T. Ning and B. Yin A Dynamic Binary Group Approach for Fast Mining Frequent Closed Itemsets Y. Zhai and A.S. Deng A Key Management Algorithm Based on Fingerprint and Fuzzy Decision W.Z. Zhao, H. Zhang, H.Z. Wang and H.L. Jing Parallel Optimization the AES Algorithm Based on MapReduce	1871 1875 1879 1883 1887 1891 1895 1899 1903 1907

An Access Control Method Based on CP-ABE and ABS Algorithm in Cloud Storage B.Y. Wang, J. Ming, S.M. Zhang, H. Jiang and H. Luo	1919
A Remote Data Integrity Verification Scheme Based on Cloud Computing S.M. Zhang, Y.C. Xu, B.Y. Wang, J. Xiao and R. Niu	1923
Research on Algorithm of Distributed Reactive Power Optimization Based on Cloud Computing and Improved NSGA-II	1927
B.Y. Wang, H. Yin and S.M. Zhang Validation of Fuzzy-Based Routing Algorithm for DTN F. Yang, J.Z. Lai and M.Z. Li	1927
Domain Concept Filtering Method Based on Word Embedding and Statistics Y. Li, S.C. Cui, Z.S. Lv and Y.B. Wang	1935
The Bionic Wing with Winglet in Near Space Aerodynamic Analysis H. Xin, Z. Ji and M. Lei	1939
A Research on Text Classification Based on the Sugeno Integral S.C. Feng and W.Q. Shang	1943
Research on Video Segmentation Based on Static Background X.L. Chai, Y. Zhang and J. Si	1947
Research on Full-Text Retrieval Based on Lucene in Enterprise Content Management System	1050
L.X. Xu, X.L. Fu and C.H. Zhang Combined Forecasting Model Based on BP Improved by Particle Swarm Optimization and	1950
its Application R.Y. Li and X.N. Liu	1954
An Algorithm of 0-1 Knapsack Problem Based on Greedy Degree Determination and Dynamic Expectation Efficiency	1055
L.L. Zhang, H. Zhang and M.G. Wang An Improved Routing Node Selection Algorithm Based on Trust Evaluation L. Shi, Q.F. Hou and J.H. Lv	1957 1961
Research on Feasible Direction Variation of Multi-Objective Genetic Algorithms and	1,01
Simulation Y.L. Li and C. Wang	1965
Study of Non-Recursive Transformation Algorithms of Recursive Problems C.F. Ye, Y.Z. Li and W.Q. Zeng	1969
Ontology Self-Perfect Based Lexical Chain for IE R. Gao, Y. Zhang, H. Deng, J. Si and X. Meng	1972
Research and Application of Data Mining Technology Based on the Genetic Algorithm C. Wang and Y.J. Lian	1976
Effective Analysis Method of Mobile Cloud Computing J.Z. Ping, L.L. Yu, Q. Wang and X.F. Wu	1980
A Preconditioned AOR Iterative Method for an H-Matrix S.G. Zhang	1984
Convergence Analysis of Preconditioned SSOR Iterative Method for Linear Systems T. Zhou	1988
The General Digital Forensics Technologies Based on Linux W. Liu, W.L. Duan, Z.H. Tian and D. Lan	1992
Calculation and Optimization of Soil Slope Stability on One Iron Mine S.Q. Nan, J.X. Zhang, X.Z. Guo and T.H. Yang	1998
The Research and Implementation of Keyword Extraction Technology Y.M. Li and X.H. Zhang	2003
A Novel Model-Based Approach in Classification Using Extension Distance H.T. Zhang and B.J. Wang	2009
Parameters Calculation and Application of Preisach Hysteresis Model Based on Combination of Genetic Algorithms and Neural Networks J.S. Li, Q.X. Yang, C.G. Zhang and Y.J. Li	2013
A New Kind of Parallel K_NN Network Public Opinion Classification Algorithm Based on Hadoop Platform B. Ma	2018

Single Machine Multiple Common due Dates Assignment Based on Common Flow Allowance and Resource-Dependent Processing Times	2022
C.X. Luo and E.M. Feng Multiple Common Due-Window Assignment Based on Common Flow Allowance and	2022
Resource-Dependent Processing Times C.X. Luo and E.M. Feng	2026
Uniform Parallel-Machine Scheduling with Deteriorating Jobs and Rejection Q. Zhang and C.X. Luo	2030
Scheduling a Single Machine with Job Rejection and Multiple Common due Dates	
Assignment Z. Fang and C.X. Luo	2034
Uniqueness of Positive Solutions for a Fractional Boundary Value Problem Y. Jiang and Y.X. Hong	2038
Dynamic Resources Connected in Cloud Based on Trust of Node L.Y. Yao	2042
Application of Improved K-Means Algorithm Density in the Grades of Cultivated Land Fertility Evaluation	20.45
L.Y. Cao, H.L. Yu, G.F. Chen and T.T. Yang The Application Research of Fuzzy C Means Clustering Algorithm in Middle School	2047
Students' Network Learning Media Preference Y.H. Jiang	2051
Data Mining's Network Traffic Data Analysis in Android Mobile Terminal	
D.H. Tang Network Coding Optimization Method Research Based on Genetic Algorithm	2055
H.Y. Yan	2059
K-Means Clustering Algorithm Based on Prim Improvement H.W. Zhang, L. Sun and H. Zhang	2063
Gravity Matching Aided Navigation Using a New Mixed Filter Algorithm C.B. Wen, Y.G. Wang, X.L. Jiang and H.L. Teng	2067
Hyperspectral Satellite Remote Sensing Dust Aerosol Depth: A New Retrieval Method Based on SVD	
R.L. Lv, X.B. Deng, J.L. Ding, H.L. Liu and Q.H. Huang	2071
Ant Colony Algorithm Based on Semantic Relations and its Applications Y.J. Yang, J.X. An and H.Y. Han	2076
A Course Scheduling Algorithm Based on Network Flow H. Lin	2081
An Effective Method for Section Data Prediction H. Lin	2084
Application Research of WNN Optimized by GA in VRLA Battary Degradation Prediction S.F. Wang, C. Li, X.Q. Xie and J. Wang	2087
Thermal Effect Simulation of CCD Irradiated by Laser C.H. Niu, X.Y. Li, X. Li and M. Wu	2092
Mining Repetitive Sequential Patterns without Overlapping from Sequence Database X.Q. Han, Y.S. Gong, X.J. Dong and R.L. Hou	2097
An Improved RC4 Algorithm for QR Code W.Q. Zhou, Y. Ma, S.B. Li, X.F. Zhang and Y.P. Zhang	2101
Multi-Secret Sharing Visual Cryptography Scheme Based on XOR Algorithm Y.Y. Ha, S. Ji, W.C. He and Y. Zhang	2108
Self-Adaptive ACA Searching Algorithm Y. Wang and F. Du	2112
Research on Coverage Optimization Methods for Wireless Sensor Networks Based on an Improved Genetic Algorithm X.C. Lou and X. Yu	2116
Research of Improved Attribute Reduction Algorithm Based on Data Mining of Rough Set D.Z. An, G.L. Wu and J. Lu	2110
Research and Application in the Web Data Mining Based on the XML F. Liu	2124

An Evaluation Method for Water Quality with Similarity Measures of Vague Sets K. Zhang, M.Y. Chen, H.F. Wang and Z. Li	2128
Short-Time Calculation Method of Passenger Flows on Urban Rail Transit Island Platform T.S. Li	2133
Study on Experiment Modeling of Human-Gun System J. Wang, Y. Liu, Z.G. Zhang, Z.J. Yu, B.G. Wang and J.K. Xu	2137
Scheduling Algorithm for High-Mobility User in LTE Downlink System J.H. Ni, Y. Zhou, Z.D. Zhao, P. Peng and R.J. Xiao	2143
Adaptive Clone Selection Algorithm for Function Optimization W.X. Yang, Z. Chen and C.J. Li	2147
The Application of Minimum Spanning Tree Clustering in the Ontology Mapping Pretreatment J.H. Cheng, W.L. Li, S.H. Zheng and D. Han	2151
Research on the High-Speed Railway Energy-Saving Operation Strategy Based on Heuristic Algorithm T. Wang, F. Chen and Q. Zhang	2155
Improved Algorithm Base on Locally Linear Embedding S.M. Liu, Y.N. Deng and Y.X. Lv	2160
Study on Data Classification and Trend of Association Rules of Time Series Y.Z. Liu and X.P. Jia	2164
An Improved Novel Global Harmony Search Algorithm Z. Kong, G.D. Zhang and L.F. Wang	2169
Normal Parameter Reduction in Soft Set Based on Harmony Search Algorithm Z. Kong, G.D. Zhang and L.F. Wang	2173
Hemming Process Simulation of Table-Top Hemming Machine J.G. Lin, E.W. Wang and G.R. Zhou	2177
A Novel Particle Swarm Algorithm for Online Trading Customer Classification C. Chen	2181
LSF Vector Quantizer for 2.4kb/s Codec Based on Speech Unvoiced/Voiced Classification Q. Li, X.H. Zhang and Q.Y. Niu	2185
A Defogging Algorithm Based on Statistical Region Merging Z.Y. Xu, Y.K. Wang, X.H. Su and Y. Liu	2189
Fishing Vessel Safety Evaluation Algorithm Based on Cloud Model J. Yao, Z.L. Wu, Z.Y. Xu and Y.Q. Ren	2194
The Application of Data Mining Technology in the Customer Churn Prewarning L.C. Zhen, X. Gao, Y.M. Wang and Y.C. Gao	2198
The Application of DES Encryption and Decryption Algorithm in the STS Protocol D.Q. Liu, W. Liu and J. Xu	2202
A Kind of Self-Constructed Category Dictionary in Chinese Text Classification K. Zhou, Y.P. Dai, F. Gao and J.H. Zou	2206
Multivariate Principal Component Analysis for Production and Energy Consumption of Cutter Suction Dredger	2211
K.K. Li and H.M. Xu An Improved Grid Search Algorithm for Parameters Optimization on SVM	2211
C. Liu, S.Q. Yin, M. Zhang, Y. Zeng and J.Y. Liu Adaptive Algorithm for Determination of Optimal Wavelet Decomposition Level Based on	2216
Jarque-Bera Test Y.H. Liu, M. Zeng and Y.S. Zhang	2220
The Equivalence Relations Between Two Fuzzy Implications Y.L. Han	2224
Study on the Determination of the Separated Layer Water Injection Based on the Grey Synthetic Degree	
Y. Lin, C.L. Liu, H.J. Yin, X.Y. Xu and Y. Wang Research of MPC Method on Preventing PIOs and Comparison with other Methods	2227
X.H. Liang and T. Wang	2231
Design of Household Heat Metering Management System Based on Cloud Computing T. Jing and X.G. Liu	2235

A New Delegation Provable Data Possession in Public Cloud Storage B. Li, C.L. Cao, J.Y. Liu and J.X. Wei	2239
Design of Tibetan Continuous Speech Corpus Based on Triphone Y.H. Li and P.C. Dawa	2245
Study of the Logistics Transportation Vehicle Terminal Path Optimization and Algorithm Based on GIS Y. Liu, Y.J. Li and Y.X. Zhang	2249
Analysis on Scheduling Algorithms of Real-Time Hybrid Tasks J.L. Wu, J.K. Shi and Y.B. Wang	2253
Estimate of the Interfacial Length Scale in Boiling Heat Transfer Simulation Based on Mixture Model	2250
H.J. Xu and S. Chang Adaptive Genetic Algorithm Verification Technology Driven by Functional Coverage J.K. Shi, J.L. Wu and Y.B. Wang	22582264
Artificial Society-Oriented Large-Scale Road Path Querying Methods K. Sheng, Z. Li, Z.C. Song and H. Duan	2269
Agricultural Logistics Companies Distribution Based on Fuzzy Clustering Analysis and Genetic Algorithm	2276
H. Yu and K. Zhang A Kind of Rolling Robot Path Plan Algorithm	2276
F. Zhou	2281
Approximation Analysis of Margin-Based Ranking Algorithm J. Luo	2286
Research of the Emergence of Virtual Organizations Based on Cloud Computing Environment	
X. Bai, H.W. Kang, Q.Y. Chen, X.P. Sun, Y. Shen and H. Zhou	2290
Stepwise Regression Analysis of Factors Related to Total CPI Based on MATLAB L.N. Ma, X.Y. Chen, L. Zhang and Y.H. Huang Fu	2295
Application of SIMD Technology in the Coherent Integration Accumulation Multiplication Optimization J. Li	2299
Multi-User Financial Management Based on Data Sharing Z.W. Li and J.W. Han	2303
Data Mining Technology Application Research for Oil Companies M.T. Wang	2307
The Research of 3D Modeling Technology Application in Virtual Reality H.J. Cui and W.Y. Xiong	2311
The Research and Application of Web Data Mining Based on XML L.J. Du	2315
RETRACTED: Deconstructing Superblocks Using Niceness H. Yang	2319
Review on Semantic Text Categorization G.X. Xu, C.J. Li, Y.J. Li, Y. Ma, X.L. Ma and Z.X. Qu Pei	2323
An Effective Algorithm for Mining Forum Users Association Rules J.K. Luo, C.A. Yuan and Y.Z. Peng	2329
Data Dispersal for Large Storage Systems L. Zhang and S.S. Zhu	2334
Research on the Model and Algorithm for the Vehicle Scheduling in Pooling Pallet Distribution	
F.G. Zhao and X.Y. Shi	2338
RETRACTED: A Case for Model Checking D. Zhang	2342
RETRACTED: Deconstructing Redundancy Using PilousGnu D. Zhang	2346
The Study of Knowledge Pushing Technology Based on the Knowledge Context X.L. Yuan	2350
Application Research on the Geographical Survey Spatial Database and its Key Technology D.J. Gu	2355

A Method of Multi-View Images 3D Restructuring of Discrete Line Segments X.B. Lin	2359
Research on Vehicle Networking Clustering Routing Algorithm Based on Subtractive Clustering	
L.Z. Yu, T.J. Ren, Z.Q. Wang and B.T. Liu	2366
The Securities Investment Research and Analysis Based on Genetic Algorithm K.Q. Zhu and J. Huang	2370
A New Approach of Predicting Traffic-Flow Based on Fuzzy Clustering and Wavelet Neutral Network	2254
J.Y. Li, B.L. Li and D. Cheng	2374
A Sufficient Condition for Low-Rank Recovery via Iterative Hard Thresholding Pursuit L. Cui, L. Liu and X.Z. Huang	2378
Research on Equipment Maintenance Support Information Modeling F. Xie and J.S. Sun	2382
A New Method for Reproducing Oil Paintings Based on 3D Printing C. Chen, G.X. Chen, Z.H. Yu and Z.H. Wang	2386
Research on Optimization Technologies in Passenger Evacuation Z.Q. Li, R. Song and Z.J. Li	2390
Research and Implementation of Text Classification Algorithm J.S. Ren	2395
Research on Ranking Model Based on Multi-User Attribute Comprehensive Evaluation Method	
X.L. Xu, G.L. Xu and J.L. Feng	2399
Computational Complexity of Training Algorithm for a Kind of Neural Network D.Y. Zhang and H. Zhang	2403
Error Analysis of Neural Network with Rational Spline Weight Function D.Y. Zhang and J.K. Wang	2407
A Recommendation System of Highway ETC Card Based on Decision Tree Theory Y.L. Ma	2411
Adjacent Vertex Distinguishing Distance Coloring of Grids S.L. Tian and Q. Wang	2416
Generalized Set Theories Applied in Uncertain Information Processing Q.B. Yang and J.L. Zhou	2419
Research on Information Management System of Equipment Based on Information Theory F.Q. Wang, Y. Liu and Z.X. Zhang	2424
Optimization Analysis and Design of Solar Water Heating System by Lifecycle Cost Savings Method	
Y. Bie, S.M. Zheng, M.F. Hu, W.Y. Mao and Y. Fang	2428
Design and Implementation of OTP Base on MD5 Z.C. Li, J.T. Diao, Q.Y. Xie, J.B. Liu and C. Zhu	2433
The Music Retrieval System Based on the Frequently-Used Rules of Chinese Text F. Sha, Y. Li, Z.S. Lv and J.F. Li	2438
Stability Analysis of Static Neural Network with Time-Varying Delays R. Zhang, M.X. Li and M.J. Liu	2442
Simulation Research on Angle Sensor by Ansys Finite Element Analysis X.Q. Wu, X.L. Wang, J.M. Xue and Y.Q. Zheng	2446
Error Factors Analysis of Meshless Local Petrov-Galerkin Method for Fully Developed Magnetohydrodynamic Flow X.H. Cai, C.Y. Shi, P. Xu and H.F. Qiang	2450
Application of BP Neural Network in Products Forecast	
C.X. Liu Passayah on the Petri Nets Medeling Method of the Task Oviented Spare Pouts Support	2455
Research on the Petri Nets Modeling Method of the Task-Oriented Spare Parts Support Process	
Y. Zhu and T.N. Wang Automatic Data Acquisition and Analysis System of Floatron Peam Distribution Peaced on	2459
Automatic Data Acquisition and Analysis System of Electron Beam Distribution Based on LabVIEW Code	
H.L. Shen, X.X. Li, M.G. Huang and J. He	2463

Adaptive Fault-Tolerant Congestion Control for Internet L. Liu, F.M. Zhang, C.W. Han, S. Bi and D.H. Sun	2467
Fractal Growing Network Models Related with the Internet of Things X. Liu, B. Yao, W.J. Zhang, X.E. Chen and X.M. Zhang	2471
Research on Reactive Power Optimization Based on Genetic Algorithms in Distribution Network L.Y. Wang	2476
A Study on Overtaking Taffic Rules in Two-Lane System Based on Cellular Automaton Model S. Lu	2470
The Positioning Method of Opposition Searching for the Coordinate of 5-Wire Resistive Touch Screen Y. Ling, F. Li and H. Chen	2479 2484
The Optimization Scheme of Image Transmission on Remote Desktop Monitoring System X.H. Yin and X.R. Wang	2489
Study on Leveling Effect in Airborne Time-Domain Electromagnetic Interpretation S.J. Liang	2493
Analysis of Orbit Transfer Using Tracking Arc and Opportunity Arc of Spacecraft J.R. Xu, C.Y. Wu and Q. Han	2497
On Felicitous Properties of Series Sun-Graphs S.H. Yang, B. Yao, M. Yao, W.J. Zhang and X.E. Chen	2502
Research on the Optimization of Protective Door Structure in the Base of Genetic Algorithm	2506
Y.L. Xie, Z.W. Ba, X.H. Wang and C. Wang A Novel Divided Differential Filter with Application to Target Tracking Y.Z. Wang, J. Wang, H. Su and M. Wang	2506 2510
Adaptive Fuzzy Synchronization Design and Parameter Identification for Chaotic Systems J. Meng, H. Du and X.Y. Wang	2510
Study on Ploughing Effect of Cutting Edge Scale Based on Inconel 718 R.Z. Feng	2522
Research on Neural Network Prediction of Power Transmission and Transformation Project Cost Based on GA-RBF and PSO-RBF D.X. Niu, F.Y. Hua, B.J. Li, M. Fu, X.Y. Yu and L. Liang	2526
The Research of Particle Learning Filter Based Conflict Detection Algorithm in Unknown Wind Condition	2522
W.P. Zhai, H. Wu and L. Ma The Method of Failure Data Processing Analysis of Filling System in Launching Site Based on Powerion Method	2532
on Bayesian Method J.G. Zhao, Y. Zhang, B. Cui and J.J. Hao L-Ary Based General Attacks on Permutation-Only Image/Video Ciphers	2537
X. Ge, B. Lu, X.Y. Zhang and J. Ren A New Method to Generate Test Cases by Genetic Algorithm	2542
Y. Liu, F.Q. Wang and Q.F. Han	2547
Applications of Data Mining Algorithm in Equipment Fault Diagnosis R.X. Li, Z.L. Zhang, Y. Liu and S.C. Tu	2551
Fault Diagnosis Model of Beer Fermentation Process Based on Multiway Kernel Principal Component Analysis N. Lv, G.Y. Bai, Y.J. Fu and L.Q. Yan	2556
A New Iterative Modularity-Based Method for Graph Clustering on Scalable Networks Y.T. Cui, B.Y. Zhang and G.Z. Rao	2562
Service-Oriented Architecture of Distributed Telemetered Data Processing L.B. Guo, J.B. Zhou, Y.G. Li, L.Q. Zhou and S.P. Li	2568
A Novel Hybrid LE and SVM with CV in Intrusion Detection Q. Liu, Y.K. Zhang and Q.R. Li	2572
Layered Model Algorithm and its Application in Fault Detection of Power Distribution Network X.Q. Li, S. Liu and W.Q. Yang	2577

A Novel Method for Model Based Diagnosis Using Case Based Reasoning H. Lin	2581
Agricultural Machinery Resources Based on Time-Windows Model Y.L. Li and C. Wang	2584
Research on Quantitative Assessment Method of Power Transformer Supervision Based on Extensible Theory	
Y.Q. Xu, X.L. Zhan, Z. Ren, T. Li, G.H. Qiao and Q. Xie	2587
Research on IGES Graphic Input and Display Technology Based on Feature Information Y. Zhang and X. Shi	2591
The Randomness of Colony Birth and Death J.F. Hou and L.L. Huang	2595
Study on Scheduling Algorithm of Field Maintenance Service for Agricultural Machinery J. Zhao, Y.G. Hu and J.Q. Wen	2598
Cross Warehouse Scheduling of Logistics Distribution and Cycle Re-Claimer Based on Heuristics Algorithm R.H. Ma	2606
The Application of Fuzzy-AHP Algorithm in Water Dispatching Decision Support System Z.Y. Gao and X.J. Sun	2611
Research on Optimal Vehicle Path in Intelligent Transportation W.M. Yu	2615
Research on the Traffic Control Optimization at Weigong Village Intersection in Beijing Z.Q. Li and R. Song	2619
Research on the Dominate Transport Distance of High-Speed Railway H.T. Ma, X.N. Zhu and L.J. Kang	2623
Mandatory Lane Change Model and Time Delay under Traffic Emergency Incidents Z.H. Ren, K. Zhang, L.X. Xue and Y.L. Gao	2627
Posture Correction Technique Based on Visual Analysis A. Di	2632
Tomato Prices Time Series Prediction Model Based on Wavelet Neural Network J.H. Zhang, F.T. Kong, J.Z. Wu, M.S. Zhu, K. Xu and J.J. Liu	2636
Application of SVG in Hand-Tufted Carpet Tufting Automation H. Zhou, Y. Li, H.C. Zhou and P.P. Wu	2641
Construction of Computer-Aided Design System for Shoes M.H. Li and X. Liu	2647
Pencil Sharpener Research and Design Based on Information Technology H.K. Li and F. Li	2652
Research on Stereo Image Acquisition Technology of 3D Printing Y. Cheng, G.X. Chen, C. Chen and J.P. Yuan	2656
3D Printing Job Editor for Workflow Visualization Design and Implementation H. Yin and G.X. Chen	2661
Explore on Gas Compression Coefficient Nomogram and Mathematical Model J.C. Zhai	2666
Computer Application in Geosciences: Imaging of the Subsurface by Structural Coupled Inversion of Potential Field Data	
J. Wang, X.H. Meng, F. Li and J.J. Zhou	2670
Three-Dimensional Modeling of MVT Lead-Zinc Deposit in Western Hunan and its Application K. Wang and K.Y. Xiao	2674
Dynamic Simulation Research of Jaw Crusher with Multi-Joint Clearance S.J. Bo, X. Wang and Q.H. Ye	2678
Chapter 4: Information Technologies, WEB and Networks Engineering, Information Security, Software Application and Development	
Heuristic Search Algorithm Based on "HowNet" in P2P Network T. Xiang, T.J. Leng and D.S. Ma	2685

Security Issues in Underwater Sensor Networks: Attacks and Defenses L.F. Liu and M.D. Ma	2689
The Application of Multi-Agent in Emergency Events of Metro Station Y.T. Wang, G.Q. Cai and X.Y. Wu	2699
Evaluation of Cyberwar's Synthetical Ability Based on Projection Pursuit Method S.N. Cao, J.P. Tian, Y.C. Dong, P. Chen and Q. Jin	2703
A Low Energy Clustering Routing Protocol Based on the Partition J.F. Xu, F. Xu and Q.L. Meng	2707
Message Exchanging Mechanism Based on Customer in the Information System Y.H. Zhang, A.N. Liu and L. Hao	2711
Research on Delay in Wireless Muti-Hop Heterogeneous Body Area Networks H. Xia	2715
The Framework Design of Wisdom Campus Based on the Network W. Chen, Z.H. Zhang and Z.J. Liu	2719
Study on the Construction of Campus Smart Card on Wisdom Campus Platform Z.H. Zhang, W. Chen and Z.J. Liu	2723
Advanced Virtual Clock Synchronization in Wireless Sensor Networks Y. Luo	2727
Research and Design of Agricultural Information Service Platform Based on Cross- Platform Technology C.H. Sun	2731
Combining Power Adjustment and Node's Movement for Connectivity Restoration in Sensor Networks	
C.H. Wu and H.S. Chen An Anti-Piracy Method Based on Encryption and Dynamic Loading for Android	2736
Applications M.M. Huo, J.Z. Wu, J.P. Cai, Z.Y. Long and L. Sun	2740
Research and Implementation of Design Data Management and Processing System H. Ji, C. Liu, Y.Y. Tang and Y. Yuan	2744
Design of Home Wireless Network Platform Based on Zigbee D.W. Xu, L.L. Deng and S. Ren	2751
Research on Key Technology of Webpage Tampering Prevention L. Zhao, X. Ling and F. Deng	2755
Filtering Ineffective Product Reviews in Electronic Commerce Website L.Y. Yao	2759
An Improved Scheme of One-Time Password Identity Authentication Based on the S/KEY System	25.62
J.Y. Li, H. Shi, Y.Q. Deng, J. Gong and Y. Guan The New Key-Stream Generator Based on the OFB Mode of AES	2763
H. Shi, J.W. Ľu, Y.F. Ji, C. Wu, J. Gong and Y.Q. Deng	2768
Collaboration Research on Web 2.0 B. Wu and C.Y. Zhang	2772
An Online E-Payment System Applying to Auto Insurance Based on Proxy Blind Signature L.M. Sha and S.Z. Yang	2776
Network Security Situation Awareness Based on Phishing Detection J.Y. Zhang, C.G. Song and X. Jin	2784
Supermarket Trolley Positioning System Based on ZigBee Z. Zhang, X.P. Tao, L. Zeng and C. Wang	2788
Study of Web Service Discovery Algorithm Based on Semantic L. Zhao and W. Zhang	2793
Research on Usage Intention of Community Information System W.P. Li, J. Yang, K.S. Kim and W. Sun	2797
Discussion on the Application of Networking Technology in Intelligent Campus Construction	
A. Wang and X.Q. Zhang	2804
Design of Pesticide Safety Evaluation of Software X.H. Zhang and Y. Lin	2808

The Key Technology and Application of the Internet of Things C.M. Li, R. Wang and L. Huang	2812
A Combined Method for Chinese Micro-Blogging Topic Tracking X. Zhang, B. Shang, L.L. Dong and Y.J. Zhu	2816
A Software Design Model Based on Big Data Z.L. He, X.H. Xiao and Y.H. He	2821
Research on Security of P2P Technology L.H. Wang	2826
Research of Network Information Platform Construction of ERP System in Manufacturing J.H. Zhang	2830
Optimization of Clustering Algorithm in Ad Hoc Network Q. Yu and P. Zong	2834
Research and Improvement of Dynamic Source Routing Protocol Based on Ad Hoc P. Zong and J. Qin	2838
Safety Strategy of Campus Network Realize Based on Core Switch Y.Y. Lu, Y. Yang and B. Zang	2842
Complex Opinion Network Correlation Clustering F.Y. Wang, S. Qiu and Q. Li	2846
The Application of Database Technology in Network Management System G.L. Cheng and M.Z. Li	2850
Research on the SDN-Based Architecture of Space-Sky Information Network D.M. Yuan and R.W. Ren	2854
Study on the Campus Website Construction C. Liu	2857
Research on QoS Guarantee Technology for Intercom System Based on SIP Z. Li, Q.Y. Yang, Y.C. Zhou and H. Ren	2863
Applied Research for Campus Student Credit Management System under the Cloud Storage	
Y.J. Kang and L. Ma Assess on E-Commerce Transaction Based on Web Technology	2868
K. Xiao	2872
NTP DRDoS Attack Vulnerability and Mitigation A. Alfraih Abdulaziz Nasser and W.B. Chen	2875
Binary Tree Model-Based Mobile Ad Hoc Network Dynamic Address Allocation Mechanism Research J.L. Liu and L. Zhu	2881
A High-Throughout Design of CAVLC Decoder for H.264/AVC	2886
Y. Wang and X.Q. Su A Distributed Comprehensive-QoS Multicast Routing Algorithm on WSNs	
W.J. Xiao and S. Zhong Mobile Game Development with Flash as the Editor	2890
H.T. Zhang, Q.J. Sun and Y.C. Liu Design and Implementation of Service Traffic Awareness System in LTE Network	2898
J. Wang, Z.Z. Zhang and Y.L. Luo	2902
A Hadoop-Based Performance Optimization of Network Stream Input Format X.P. Wang, J.T. Luo, W. Gao and Y. Liu	2906
Dynamic Non-Cooperative Structured Deep Web Selection S. Deng	2911
Multimedia Technology of Digital Tourism Based on Android System J. Zhang	2915
Vulnerability Assessment of Information System Based on Weighted Directional Graph and Complex Network Technology Y.Z. Li	2920
Key Technologies Analysis on Management System Data Warehouse X.F. Yang	2925
Research on Action Design System Based on VB.NET Technology L. Xu, W. Lei and W.M. Xu	2929

Numerical Analysis and Performance Test Based on Multi-Media Internet Architecture J.P. Fan	2934
The Architecture and Implementation for International Trade Settlement Software Design G.J. Zhang	2939
A Web Services Security Policy Description Model H. Zeng, Y.W. Zhao and D.F. Ma	2943
The Simulation Platform in City Traffic Environment Based on TinyOS for Wireless Sensor Networks	
T.J. Ren, H.X. Lv, Z.Q. Wang, Y.R. Chen and Y.L. Liu	2947
Automatic Threat Assessment of Malware Based on Behavior Analysis J.G. Jiang, X.J. Ma, X.L. Qiu, M. Yu and C. Liu	2952
Design of Wireless Sensor Networks Border Router Based on IPv6 D.W. Xu, L.L. Deng and S. Ren	2957
Research of Network Virtualization in Data Center X.L. Tan, W.B. Wang and Y.Q. Yao	2961
The Software Support Analysis of Information System H. Wang, X.Y. Li, X.N. Wang and W.N. Liu	2965
Study on a Novel GIS-Based Routing Strategy Y.W. Wang and D.Y. Ji	2969
Development of a New Routing Protocol Based on GPSR for Wireless Sensor Networks C.F. Xing, L. Yang and Q.L. Han	2973
The Study of Network Information Security Based on Information Filtering Technology L.L. Wei and W. Yang	2978
The Implementation of Cloud Storage System Based on OpenStack Swift Z.Y. Duan and Y.Z. Cao	2981
Research and Design on Multilevel Secure Database Inference Control H.Y. Zhao, R.G. Liu and X.G. Liu	2985
Research on Secure Model in WiFi/WiMAX Mixed Networks Based on Pre-Authentication Z.T. Ni, Y. Zhong and L. Huang	2988
Research on Database Front-End Applications Exploration Based on Powerbuilder L. Huang, Y. Wang and Z.T. Ni	2992
Research on Dynamic Self-Adaptive Network Security Model Based on Mobile Agent K.Q. Fan	2996
Research on the Implementation Methods of Security Management of Distributed Database Application System N. Zheng and Y. Gao	3000
Research on Shared Information Platform for Expressway Management Information	
System C. Wang and Y.L. Li	3004
Research on Ad Hoc Network Security Protection Model Based on Mobile Agent Q. An, Y.J. Luo, H.Y. Zhao and J. Zhao	3008
Research on Information Resources Sharing Patterns Based on Cloud Computing W.J. Yang, Y.J. Luo, H.Y. Zhao and X.T. Li	3012
Research on the Model of Personalized Recommendation System Based on Multi Agent Q. Wang, J.Z. Ping, L.L. Yu and Z.J. Wang	3016
Research of Music Retrieval System Based on Emotional Music Template X. Wang	3020
A New Trust Model in P2P Network X.L. Li, L.C. Wu, J.J. Xiang, H.L. Ma and F. Liao	3024
Research on Relay Node Placement Based on Hybrid Greedy Optimization Algorithm in Wireless Sensor Networks	2020
H. Xu and H. Zhang Security Research of the Mobile E-Government Terminal	3028
S.Y. Guan, Y. Fan and H.L. Lv	3032
Analysis of College Students' Online Business in China A. Abuduaini and N. Aishanjiang	3036

Thought about the Construction of Digital Employment Information Service System of Rural Migrant Workers in the West Area of Jilin	
X.L. Wang	3040
Design and Implementation on Sina Micro-Blog Client Based on the Android System C.Y. Shi	3045
On SOA Community Informationization Foundation Database Generic Interface Design Y.B. Zhou	3049
Research on Storage Strategy of Unstructured Small Files in HDFS L.T. Wu, T.N. Wang and H.R. Hu	3053
The Building of the Database of Art Resources Research for Academy of Fine Arts M. Zhao	3057
Research and Implementation of Auxiliary Teaching System Based on C/S Model Y.J. Cong	3061
The Improvement of the Public Service System Based on Web Technology R. Qian	3065
Design of Extended Event Service Model Based on CORBA C.X. Zhao	3069
Modeling and Analysis of NOTAM Distribution Services Based on Petri Net J. Hu, X.Y. Song and J.Z. Sun	3073
Research of the Database Access Technology Under.NET Framework X.D. Zhang, Z.M. Teng and D.W. Zhao	3077
Dynamic Visual Elements in the Digital Media Design	
T. Sun Design Research on the Resident Electronic Health Recorder Systerm	3081
N. Liu	3085
The Web Development Technology Research of Cross Platform Mobile Application S. Sun and S.X. Cao	3090
The Universal Middleware Architecture Based on the Web of Things R. Zhang and P. Zhang	3094
Development of Travel Reservation System for Mobile Platform L.J. Sun	3099
Research on Statistics Based Multi-Priority MAC Protocol for Ad Hoc Networks P. Wang, H. Li, B.L. Ye, C. Chen and Y.B. Wang	3103
LEACH-EO: A More Energy-Efficient LEACH Protocol for WSN J. Zhang, H. Yan, Y. Cui, H. Rong and J.P. Wang	3108
Authorization Management System of Micro Video Based on FFmpeg Q. Guo, Y.G. Xu and S.X. Cao	3112
Research on Network Video Data Acquisition and Analysis Based on Big Data H. Ji and S.X. Cao	3116
The Design and Implementation of Community Property Management System Q.H. Wu and H. Zhao	3120
The Integration of Sports Information in Personalized Network H. Zhao, Q.H. Wu and J.B. Zhao	3124
Situation and Development Strategies of Sports Entertainment Groups in Network	3124
Environment J.B. Zhao, H.J. Ji and H. Zhao	3129
Reverse Engineering OWL 2 Ontologies to UML Models W.J. Li	3133
The Study on Educational iOS and Android Application Program of Sports Skills and Knowledge	
N. Liu and D.Y. Yang	3137
Research on Development of Books Interview Platform H.M. Zhang and N. Li	3141
The Development of Information Integration System for Oil Production Equipment M.T. Wang	3145
The Design and Implementation of Oil Production Equipment Data Management System M.T. Wang	3149

The Development on Information Collection System Based Internet of Things C.W. Luo, X.W. Yin and C.D. Ni	3153
Design and Implementation of Computer Equipment Management System Based on Oracle Database	
X.M. Jiang	3157
Agricultural Products Traceability System Design Based on IOT X. Qian, D. Wang and W.M. Luo	3160
Design and Implementation of the Hospital Information Management System Based on the ASP.NET	
M. Li and S.Y. Yang	3166
Professional Software Analysis and Comparison for Graphic Design R.H. Wang	3170
A Network Security Risk Computation Approach Based on Attack Graphs C. Wang	3174
Application of Computer Network of Virtual Reality in Design of Art J. You	3178
Cryptographic Protocol Verification Based on the Extension Rule H. Lin	3181
The Frame Study of Translation System Design Based on Database Management L.H. Liu, F.J. Meng, Y. Lei, Y. Sun, J.Q. Mu, Z.L. Zhu, Y. Yan, Y.H. Zhang, L. Sun and Z. Lv	3185
Efficiency Analysis of Command Networks with Cross-Level of Different Groups L.F. Yu, J.B. Wu, J. Liu, B.X. Xiu and W.M. Zhang	3189
Study and Practice Based on Network Technology W.H. Zhao, D.P. Xu, H.Y. Gong and Y. Li	3195
Application Research on Virtual Reality Technology	3199
Y. Li, H.Y. Gong, D.P. Xu and W.H. Zhao Network Topology Discovery Algorithm Based on OSPF Link State Advertisement	3199
Z.J. Shen and Y.S. Ge	3203
A Cloud-Based Mobile Telemedicine Consultation System Based on iPad H. Wang, T.H. Li and F. Wu	3208
Design of Network System Security System of Digital Library S. Liu	3212
Information Management System of Metrological Evaluation Based on SSH Framework S. Zhang, J.M. Zhu, Y.H. Qin and L.L. Qu	3216
Design and Implementation for the Upper Computer Software of the Two-Dimensional Turntable System Based on MFC Y.N. Xiang Li and X.J. Yang	3220
Available Storage Space Sensitive Replica Placement Strategy of HDFS W.T. Zhao, Y. Ding and X.H. Zhang	3224
LBSN-Based Personalized Routes Recommendation	3221
L.C. Zhu, Z.J. Li and S.X. Jiang An Intelligent Human-Computer Collaborative Method for Creative Design	3230
J.W. Wang	3235
Research of Cloud Manufacturing Technology in the Development of Digital Intelligent Production Control Platform	
G.L. Feng	3241
A Remote and Unified Software Automated Deployment Platform J.P. Zhao, X.Y. Liu, H.H. Wu, X.L. Chen, L. Yang and D.H. Zhang	3245
Design and Implementation of Multi Granularity Access Framework Based on AOP Q. Wang and Y.B. Wang	3251
A Smart Grid Data Global Placement Strategy Based on Cloud Computing Y.K. Li, D. Xin and H.G. Liu	3256
Design and Implementation of Binary Utilities Generator J.Q. Shen, J. Wu, Z.F. Zhang and H.Q. Ren	3260
SERP: A Simple Energy-Hops-Based Routing Protocol in WSNs	2255
M.X. Li, X.C. Zhou, X.H. Fan and S. Wang	3266

Human Error Simulation of Manufacturing Cell Based on Human-Machine Integrated Model	
D.F. Zhao, X.D. Zhang, C.J. Gong and C.C. Wang	3270
RETRACTED: A Methodology for the Exploration of 802.11B H. Yang	3275
Research on Data Aggregation Application Based on Mashup M.Y. Cai and B. Pan	3279
Research on ASIC Firewall Based on State Detection Technology S.Q. Wang and H.Y. Chen	3283
Detection Technology for Hostile Attacks to Campus Wireless Network L. Ma and H.X. Yang	3287
Research on the Detection Method of the Malicious Attacks on Campus Network J.L. Wang	3291
Detecting Overlapping Communities with MDS and Local Expansion FCM L. Li, Z.M. Xia, S.H. Li, L. Pan and Z.H. Huang	3295
Comparison Analysis of RESTful and SOAP-WSDL Applied in the Image Management System	
R.Y. He Study on Digital Content Representation from Direct Label Graph to RDF/OWL Language	3300
into Semantic Web K.A.L. Khamis, L. Zhong and H.Z. Song	3304
Research on Multilevel Secure Database Inference Channel	3301
H.Y. Zhao, J. Meng and X. Zhang Design and Realization of IOT-Based Video Monitoring System	3310
J. Yin and C.H. Li	3314
Storage Model Based on Oracle InterMedia for Surveillance Video B. Sun, W.S. Luo, L.B. Du and Q. Lu	3318
A Noise-Optimal Integrator for High-Precision SC Sigma Delta Modulators X.L. Wang and Y.W. Zhang	3322
Research on Vehicle Networking Transfer Channel Based on MAC Safety Information	
System Y. Zhou, T.J. Ren, Z.Q. Wang and Y.L. Liu	3329
Application of Neural Network in Network Intrusion Detection Z. Yang and H. Du	3334
The Study of the Ontology and Context Verification Based Intrusion Detection Model G.F. Guo	3338
Environmental Monitoring System Designing: A Internet of Things Approach G.H. Wu, F. Liu, J.X. Li and W. Wang	3342
Remote Inspection System Algorithm Research of Wireless Base Station M.D. Bai and Y. Dong	3346
Application Research of Visual Simulation Technology in the Field of Marine Engine Room	
Simulator H.S. Shen, J.D. Zhang, Y.B. Li and F. Han	3350
Application of Function Point Estimating C.H. Zhou	3357
Design and Research of Computer System High Confidence Fault Tolerant J.Q. Qi	3361
FMPC: A Fast Multi-Dimensional Packet Classification Algorithm Z.H. Guo, L. Li, Q. Wang, M. Lin and R. Pan	3365
Code Protection Technology on iOS J.T. Weng, Q. Mu, X.Y. Liao, Y.Z. Li, Q.X. Zhang and Y. Tan	3371
Distribution of Database in Cloud Based on Associated Matrix L.Y. Yao and W. Yang	3375
Finite Element Numerical Simulation Research on Fractured Horizontal Well's	
Productivity M.X. Liu, J.H. Li and L. Zhang	3379
Research of Augmented Reality for Children's Books on the Basis of Artoolkits W.G. Yang	3383

Research and Practice of Cloud Computing Based on Hadoop A.S. Lu, J.J. Cai, W. Jin and L. Wang	3387
Review on Application of Virtual Reality in the Physical Simulation Z.J. Cai	3390
Overhead Analysis of Loop Parallelization with OpenMP Directives L.Y. Xiang, Z.Y. Fang, Y. Wang, G.N. Qu and Z. Chen	3394
Design and Implementation of Cloud Management System H.Y. Yu, T.X. Yang and X. Fu	3398
Study on Replacing-Element Imagery Design of Dongba Characters Combined with Chinese Characters	• • • •
W.J. Song, Y.F. Yang and R.P. Xu Research on Multilayer Security Audit Research Based on Attack Graph in Cloud	3402
Computing L.B. Wen	3408
An Efficient Secure Multichannel Traffic Management Scheme in 2.4 GHz Home Automation Network with IoT Functions	
M. Wei and P. Wang	3412
Chapter 5: Electronics and Microelectronics, Embedded and Integrated Systems, Power and Energy, Electric and Magnetic Systems	
A Study on Reconfiguring On-Chip Cache with Non-Volatile Memory M.Q. Wang, J.T. Diao, N. Li, X. Wang and K. Bu	3421
A Circuit Model of the Memcapacitor W. Wang, H. Xu, Y.W. Hou and H.J. Liu	3426
Titanium Oxide Memristor Based Digital Encoder Circuit Y.W. Hou, X. Xu, W. Wang, X.B. Tian and H.J. Liu	3430
Application of Digital Coordinate Transformation to a New Posthole Broadband Seismometer	
C.Y. Peng, B. Xue and J.S. Yang Personnel and Design of Asymphysical ELEO Board on EBCA	3434
Research and Design of Asynchronous FIFO Based on FPGA B.Q. Liu, M.Z. Liu, G. Yang, X.B. Mao and H.L. Li	3440
Wind Power Allocation Based on Predictive Power Correction Z.H. Feng, T.J. Jia, X.M. Xiao and F.J. Zhang	3445
The Application of LED Lighting in Museum Exhibition Hall Y. Zheng, L.W. Huang, M.M. Wang, H.Q. Chen and L.Z. Zhang	3449
A High Reliable Communication Method for the Terminal of a Networked and Distributed Power Supply System	
E. Lu, B. Huang, S.S. Li and Y. Yang A New Method of Cross-Correlation by Magnetic Dipole for Estimating Magnetization	3453
Direction under the Influence of Remanent Magnetization L. Shi, L.H. Guo and F.Y. Guo	3459
The Condition Assessment of Distribution Transformer Based on Improved Analytic Hierarchy Process	
X.P. Meng, L. Li, H. Wang and X. Ji Effects of Different Sample Resistances on the Insulator Leakage Current Acquisition	3463
Results P.C. Miao and Z.N. Xu	3468
Research and Design of Video Acquisition System Based on FPGA B.L. Liu, B.Q. Liu, L. Pan and L. Wang	3472
High Rate Data Transmission System Based on OFDM for Well Logging Q.S. Gu, W. Chen and R.Q. Wu	3476
Application of On-Line Ultrasonic and UHF Partial Discharge Detection in 1000kV GIS F. Chen, H.Z. Tang and H.G. Li	3480
Synchronization of Hyperchaotic Memristor-Based Chua's Circuits H.L. Huang, Y. Peng and J.J. Huang	3485

Prediction of Nuclear Power Project Cost Based on Improved Non-Equidistant GM (1,1) Model and Exponential Regression Model B.Y. Liu, D.X. Niu, J.P. Qiu, H. Xu and Y. Wang	3489
Design Principle and Applicative Value of Photovoltaic System M. Chen, L. Chen, X. Tang and Y.H. Hu	3493
Research of Signal Integrality in PCB Design for ARM9 Core Board L.Y. Su	3497
Formal Analysis of Memory Leak Defects W. Zhang, Z.Y. Ma, Q.L. Lu, L. Wan and D.W. Liu	3501
Research and Application of a Solution to Acquire Electric Energy Data S.Y. Long, X. Lu and Y.S. He	3505
The Transient Characteristics Analysis of Doubly-Fed Induction Generator during the Asymmetric Voltage Sag J.H. Zhang, H.R. Shen, L. Ding and C.L. Dai	3509
Optimal Substation Locating and Sizing Based on Improved Weighted Voronoi Diagram and Genetic Algorithm P.Q. Miao, Q.B. Meng, Y. Li and Q.B. Tu	3515
Optimal Design of Transmission Line Route Based on GIS Y. Wang, W. Huang, Y. Li, Q.B. Tu and X. Tain	3522
A Control Method to Suppress Resonance and Improve Current Quality for Inverter System with LCL Filter	2520
Y.P. Lin, S. Tao, X.N. Xiao and M.R. Wu Charge and Discharge Protection Circuit of a Mobile Power Supply Improvement S.G. Li, L.Z. Wang, Z.Z. Gao, X.J. Zhang and L.N. Zhao	3528 3534
Risk Assessment of Power Transformer Life Cycle Cost Based on Extensible Matter- Element Model	3331
G.H. Qiao, X.J. Guo, L.M. Wu, H.L. Liu, Z. Ren and N. Bai A New Method for Power System Transient Stability Assessment: Application of Adaptive	3538
Combined Classifiers S. Wei, B. Wang, D.C. Liu and J.H. Luo	3542
Influence of Moisture on the Space Charge Migration and Electric Field Behavior in Oil-Paper Insulation J. Fu, J. Hao, H. Yin, G.L. Wu and Q. Wang	3548
Intelligent Four-Probe Resistivity Meter Based on MCU J.Z. Huo	3552
Routing Selection for Communication of Power System Wide-Area Protection Considering Backup Path X.W. Sun	3556
A Novel Broadband Vibration Energy Harvester Y. Liu, X.Y. He, S. Liu, Y. Wu and Y. Ou	3560
Equivalent Circuit of a Planar Transformer Used for TWTA B. Zhao and G. Wang	3564
A Reconfigurable Radix-r FFT Hardware Structure Design Y.X. Zhang, H.P. Zhao and J.Y. Yu	3568
One Kind of Band-Gap Voltage Reference Source with Piecewise High-Order Temperature Compensation and Power Supply Rejection Ratio Z.D. Li and L. Xie	3575
Evaluation of Power System Black-Start Schemes Based on Improved DEA/AHP Evaluation Model C.G. Shi and T. Liu	3579
A TDC Based BIST Scheme for Operational Amplifier J. Yuan and W. Wang	3583
Design and Simulation of Arrayed Waveguide Grating for Miniature Raman Spectrometer Y.C. Xu, Q.N. Wang and W.Z. Zhu	3588
The Electromagnetic Parameters' Impact of $\lambda/4$ Type Dielectric Absorber on Absorbing Properties	
H.C. Zhao, W.J. Hao, Y.Y. Yi, Y.F. Dong and X.D. Yu Ballistic Effect and Application in Circuit Design of Wide Band-Gap Semiconductor	3593
X.X. Liang, Z.Q. Cheng and M.S. Jia	3597

Design of Programmable DC Power Supply Based on ARM X. Wang, H. Chen and R. Wang	3601
Research on System Integration Technology for Operation & Maintenance Automation System of CSG EHV Power Transmission Company Z.Z. Zhou, X.Y. Chen and M. Sun	3605
Adaptive Sliding Mode Output Synchronization Tracking for Hyper-Chaotic Lü System Based on Adaptive PWL Filters Y.B. Zhao, X.Z. Zhang and X.Y. Sun	3610
Steam Generator Water Level Intelligent Control of PWR Nuclear Power Plant Based on Feed Water Regulation X.H. Yang, J. Yang, Y.N. Wang and Y. Xue	3616
Research on Application of all Time Apparent Resistivity Translation Algorithm for Large Fixed Loop TEM F.L. Li and X. Zhu	3620
The ECG Data Storage System Design Based on SD Card and Reliability Analysis Y.L. Zhu and Y.D. Wang	3625
Danger Classes Detection System Design of High Voltage Transmission Conductor Galloping	2721
Y.F. Wang and L.L. Liu UHF RFID Reader Design D.W. Xu, L.L. Deng and S. Ren	3631 3635
A New Type of Lead Sealing for Electric Energy Meter Packaged on the Spot X.Z. Hou, H. Yan, L. Feng and D. Wei	3639
Design Based on PLC Programming Control De-Dust System G.Q. Wang	3643
Circuit Design for an Intelligent Dustbin Controlled by Gestures H.C. Zhou	3647
A New Perspective on ECL Circuits R.B. Hu, S.T. Zhou, G.B. Chen, D.B. Fu and X.Y. Zhang	3651
Practicability Discussion and Verification of Using FPGA to NAND Flash M. Yang, K. Xu and X.F. Zhang Proceedings of Theory Physics Fells Controlled Printing Controll	3655
Research & Development of Three-Phase Full - Controlled Bridge Rectification Circuits Experiment Device Based on TC787 Y. She	3659
A 14-Bit Pipeline ADC Behavior Model Using Verilog-A for SOC W. Liao, L.C. Lei and X.D. Zhou	3663
Applicability Analysis of PTN Technology in Henan Electric Power Transmission Network Y. Yang, J.X. Lv, S.W. Wang, P.L. Cai and W.C. Li	3667
The Researches on the Construction of the Management in Integrated Electric Power Communication Network System Y. Yang, J.X. Lv, L. Sheng, Y. Sun and X.C. Zhao	3671
The Application Research of Current Protection Device in Low-Voltage Rural Grid L.Y. Wang	3675
A Multiplexer with Split Devices for High Channel Isolation X.Z. Huang, L.C. Liu, W.G. Huang, F. Liu, J. Luo, D.M. Zhu and Z.H. Huang	3678
An Integrated Ramp Generator for PWM Voltage Regulators X.Z. Huang, L.C. Liu, W.G. Huang, J. Luo and D.M. Zhu	3682
Low Power Wireless Sensor Software Design Technology Activated by the Electromagnetic Wave J.W. Ju	3686
Design of the Embedded PLC Hardware System Based on CAN Bus and LCD Touch Screen H.Y. Xin, C.X. Li, Q.R. Lu and H. Huang	3690
The Establishment of the Pork Product Traceability System Based on RFID L. Ma and H.L. Yu	3694
Research on Water Supply System under Variable Frequency and Constant Pressure Technology T.Z. Li and P. Zhang	3697

Design of Water Supply System with no Tower under Constant Pressure Based on PLC P. Zhang and T.Z. Li	3701
A RTDS Model for Simulating HVDC Transient Valve Voltage during Commutation Period L.J. Qian, J. Yan, P.H. Zhou and D.Z. Nie	3705
Single-Element Passive Quenching with Active Reset Circuit for Single Photon Avalanche Diodes C. Hu, T.H. Ju and Y. Yao	3709
A Wilkinson Power Divider Using a Microstrip in Isolation Y. Wang, S.L. Zhou and Y.S. Qiu	3713
Design of a Multichannel High Precision Instrument in Portable Data Acquisition A.H. Dong, X.Y. Kang and Y.Y. Wang	3718
Coolers Based on Semiconductor Refrigeration Technology for Electric Vehicle On-Board Chargers W.K. Dong	3722
Study on Fault Diagnosis of Ship Power System Based on Multi-Source Information Fusion Technology	2727
L. Liu and X.Q. Li The Design of USB Protocol Layer Based on FPGA C.L. Xu	3726 3730
Numerical Simulation of Cathodic Protection Potential Distribution of Coastal Power Plant Condenser Based on Physical Scale Model P. Zhang, J. Zhao and G. Wang	3734
Overhead Transmission Conductor Low Axial Tension and the Study of Linear Y.P. Li, Z.Y. Wang and C.J. Bai	3739
Calculating Capacitance by the Mirror Image Method M.Q. Chen, H.W. Li, F.W. Chen, S.Y. Li, T.Z. Cao and T. Wu	3743
A Brief Overview of Service Restoration in Smart Distribution Network N. Wang	3747
Research on a Novel Solar Charging System C.B. Wen, Y.F. Fu, L.H. Gao, Y.M. Li and Y.F. Ju	3751
Design and Implementation of Multi Tone Modulation System Based on Sound Card D. Ren	3755
Improved Median Filtering Algorithm Based on FPGA C.B. Wen, C.F. Xue, T. Yang and Y.M. Li	3759
Performance Analysis and Implementation of SISO Iterative Receiver for SCCC L.T. Li, P. Zheng and J. Hao	3763
Review on Functions and Control Technologies of Virtual Power Plant D.W. Su, J.N. Pang and H. Jiang	3767
Research on Assessment of Coordinated Evaluation in Electricity Ecosystem Based on Entropy Weight and AHP L.J. Qin, Z.Y. Sun, L. Liu and Y. He	3773
Research and Design of a Novel Power Supply System Used in LED Light Sources for Plants	5,7,5
J.W. Leng and X. Wang	3780
Research of Node Importance for Sneak Circuit Analysis Based on Quantitative Model Y. Xie, Q.S. Ma and P. Xu	3784
Neutral Point Potential Balance of Dual Three-Level Converter Based on Fuzzy Logic Control Strategy X.L. Zhang and J.B. Shi	3788
Estimating the Magnetization Direction of Sources through Correlation between Reduced-to-Pole Anomaly and Normalized Source Strength	
L.H. Guo, R. Gao and G.L. Zhang Design of a Second-Order Sigma-Delta Modulator	3793
M. Guo, H.H. Deng, B.W. Ding and Y.S. Yin	3797
Research and Implementation of LCD Writing Board Based on MSP430 Microcomputer G.L. Liu, C.R. Zhang, B. Wei, J. Ge and Q.M. Hong	3802
The Impact of Power System Voltage Regulation Caused by Wind Disturbance S.M. Liu, Z.J. Wang, H. Wang, S.T. Chen and Y. Li	3806

Study on Friction Compensation for Shipborne Tracking Antenna Servo System D.X. Zhu, Y.X. Jia and Y. Feng	3810
Friction Compensation for Shipborne Tracking Antenna Servo System Based on LADRC D.X. Zhu, X. Chen and L.F. Sun	3814
Transformer Differential Protection Applications of the Applicant Electronic Current Transformer L.X. Mei	3818
The Simulation Study of New Boost-ZVT Circuit Based on Pspice Y.F. Wu	3821
Photographic Storage Type Downhole Video Imaging Logging Tool Z.X. Song, X.D. Long and X.G. Li	3825
The Switching Power Supply Electromagnetic Analysis General Procedures and Simulation W. Zhang	3829
Designing a Parallel Switch Simulator Based on OpenMP Y. Wang, Z.Y. Fang, H. Zhang and A. Liu	3834
The Impact of Power System Frequency Regulation Caused by Wind Disturbance S.M. Liu, Z.J. Wang, X. Sun, Y.T. Liang and X.W. Zhu	3840
A New Type of IGBT Device with Electronic Enhance Collector Y.S. Lai, Y. Xiong, S.R. Zhong and J. Xiong	3844
Mixed Chance Constrained Unit Commitment Model for Power System Containing Wind Farm	
S.Q. Sheng and X.X. Sun	3850
Research on the Design of Drawer-Type Power Module Based 10kV Outdoor Intensive SVG L. Zhang, N. Zheng, Y.H. Wang, M.H. Jiao, S.Z. Liu, G. Li, Y. Xing and B. Song	3854
Research on Field Parameter Setting Test for Using 10kV Chain SVG to Resolve Low Voltage of Rural Power Grid Substation Y. Xing, S.J. Du, M.H. Jiao, S.Z. Liu, G. Li, L. Zhang, Y.H. Wang, N. Zheng and L. Hong	3858
Simulation Research on Starting Resistor Parameter Selection of 10kV Chain Static Var	3030
Generator S.G. Hu, S.H. Wang, J. Liu, J.H. Wang and S.C. Wu	3861
Research on Chain SVG Direct Current Control Simulation Based on PSCAD C.G. Liu, H. Hao, Z.Q. Zhang, X.H. Wang, X.L. Li, S.H. Wang, J.H. Wang and J.Y. Chen	3866
Impacts of H-Bridge DC Side Capacitor on Chain SVG Performance Y.S. Zhang, J.J. Chen, C.G. Wei, L. Song, B.M. Hou, S.H. Wang, J.H. Wang and J.Y. Chen	3870
Design of System to Prevent Drunken Driving Based on GPSGSM Technology Z. Guo and Z.M. Xiao	3873
The Analysis and Design of COS Interface Model M.L. Peng and D.P. Li	3877
Simulation on the Springback Property of Sealing Ring in Nuclear Power Plant L. Liu, W.W. Yu and D.W. Yang	3881
Design of a Simulating Control System for Hybrid Wind/PV Power Generation Q.F. Ma, J.H. Liu and X. Yu	3886
Feasibility Study on Wind Power Distributed Grid Connection in Fuxin Z. Zhou, X. Zhang and T.L. Shao	3890
Estimation of Wind Power Installed Capacity in Fuxin X. Wang, C.W. Li and X.A. Zhao	3894
A Circuit Board Fault General Detection Platform Based on the ASA Technology Y. Cao, X.L. Gu and S.J. Shao	3898
Study on the Maintenance and Management of VRLA Battery W.C. Li, Y. Yang, H. Zhang, J.X. Lv and X.J. Shu	3902
Design and Implementation of the Security Subsystem in the Smart Home System Q. Ye, S.M. Yu and Y. Sun	3906
Realization of Interrupts and Time Management of a Sensor Network Operating System H.C. Li and Y. Zhou	3911
Design and Realization of Semaphore for a Sensor Network Operating System Y. Zhou and H.C. Li	3917
Study on Fault Diagnosis of Wind Turbine Generator Based on HHT R. Wu, X.Y. Zuo and H.T. Jia	3923

Design and Analysis of a Kind of Attenuator that Used in Microwave Moisture Contactor E.D. Xu, Z.P. Chen, Z.J. Zhang and C.J. He	3927
Finite Element Analysis for the Tower of 1.5 mw Wind Turbine C.Y. Zhang and X.Q. Wu	3931
Research on Calibration of Power IGBT Model Test Equipment C. Liu, B.H. Zhong, Y.F. Zhang and J.S. Kan	3936
Chapter 6: Communication, Signal and Image Processing, Data Acquisition, Identification and Recognation Technologies	
The System of Face Recognition Design X.B. Yu, Z.Q. Li, W.Q. Ke, R.P. Li and K. Xiong	3943
Research on Blind Source Separation with Noise Based on Multi Factor Analysis G.H. Liu, Z.S. Yin, Z.W. Wang, X.S. Yao and W.Z. Yang	3947
Controllable Four-Wave Mixing Signal inside a Cascade Three-Level Atomic System Y.Z. Zhang, L.B. Fa, H.P. Gao, Y.L. Wang, Y. Wang, D. Wang and Y.Y. Li	3951
Integration Frequency Response of Human Dynamic Anterior-Posterior Balance under Passive Motion Stimulus	2056
J.Z. Xiao, R.J. Xue and H.R. Wang Identification Method of Pavement Crack Based on Topology Contravariant	3956
J.F. Wang, Y.L. Jia and F. Yang Kalman Filter Processing Applications for Motion Noise	3960
X.D. Zhang, X.H. Meng and L.H. Guo The Error Correction Model on Kalman Filter	3964
Y.Q. Hao Design of Digital Communication System of VCTD Board on ESV	3968
Design of Digital Communication System of XCTD Based on FSK J.R. Zhao, N. Liu and Y.H. Wu	3972
Research and Optimization on BM3D Denoising Algorithm Z.Y. Guo and X.B. Zhou	3976
An Approach of Traffic Sign Recognition Algorithm on MATLAB J.Y. Li and M.X. Song	3980
3D Fusion Technique Based on Wavelet Transform for 3D Dataset of Gravity and Magnetic Inversion	
Y.J. Li, L.H. Guo and G.L. Zhang	3984
An Efficient and Feasible Color-Based Technique for Object Picking Z.L. Luo, K. Lu and X.P. Wang	3988
Data Forwarding Based on Distributed-Region for Multi-Hop Infrastructure-to-Vehicle Data Delivery	
X.D. Tang, X.X. Liao and R. Chen	3994
Medical Ultrasound Image Denoising Algorithm Based on Nosubsampled Contourlet Transform	
M.F. Shen, F. Huang, Z.F. Su and L.S. Sun	3999
Physical Layer Technology for Extremely Low Speed Communication System in the Computer Network J. Chen, Y.M. Hu and L.N. Wu	4005
Research on Land Utilization Information Publishing Based on Google Maps X.Y. Zhang and X. Li	4009
Compressed Channel Sensing Algorithm Based on Cluster Sparsity Y. Wang, L.Y. Zhang and R. Zhang	4013
Automatic Expression Recognition Based on Mouth Shape Analysis Z.J. Li, X.D. Duan and C.R. Wang	4018
A Radiated-Noise Simulator for Underwater Target Based on Vector Time Series Y. Ju and X.Y. Wang	4023
Image Threshold Segmentation Algorithm Based on Histogram Statistical Property H. Li, Z.A. Lai and J.W. Lei	4027
Research of Error Rate in AMI Code Y.J. Li	4031

Parameter Estimation of Co-Channel AIS Signal Using Ambiguity Function H.S. Zhou and J.X. Wang	4035
A North Finder Scheme for FOG SINS Based on Kalman Filtering W.Z. Zheng, G.L. Yang, K. Zhang and R.D. Ma	4040
Design of Data Communication between Nios II and Computer F. Yang, W.M. Zhang and W.C. Jiao	4044
The Application and Prospects of SOPC Technology in Image-Processing F. Yang, W.M. Zhang and W.C. Jiao	4048
Reliability Assessment for Telecommunication Channel of Electric Power System Using AHP	
C.Z. Bian, B. Wang, F. Tang, Y.X. Chen, J. Jia and B.W. Fang	4052
Application of Independent Component Analysis in Structural Condition Identification Y. Yan, S. Li and X.L. Jin	4061
A New SLNR-Based Precoding for Multiuser MIMO Downlinks X.M. Li	4066
Image Processing Technology for Aerial Camera Manipulator Z. Liang and J.A. Yuan	4072
Research of the Aerial Camera Lens to Eliminate the Secondary Spectrum Z. Liang	4076
Bayesian Robust Coding Face Recognition Algorithm Based on New Dictionary Y.C. Guo and L.H. Zhang	4080
Design of Ship Communication System Based on CAN Bus X.K. Wang and J.H. Zhang	4084
Research and Design of the Communication Middleware for the Distributed System J.H. Zhang	4088
SRR-Based High Gain Microstrip Antenna with Low Radar Cross Section S.J. Wang	4092
Two-Dimensional Reconstruction of Digital Human Images Based on Distributed Parallel Computing X. Ran, M. Zhong, F. Cheng, L. Qiao and J. Zhou	4095
Research on the 650GHz Folded Waveguide BWO Y.N. Tang, L. Shi, W.Q. Xie and Z.C. Wang	4099
An Adaptive Narrow-Band Filter with Variable Step D.M. Wang, J.H. Wang, W.J. Cui and X.H. Yang	4103
Optimization of Quantum Dot Infrared Photodetectors Based on Noise Model H.M. Liu, X.L. Zhang, C. Meng and C. Yang	4107
Comparison between Mean Filter and Median Filter Algorithm in Image Denoising Field X.X. Sun and W. Qu	4112
Acquisition and Recovery of Full-Waveform LIDAR Data Based on Compressive Sensing J. Zhao and J. Lv	4117
Three-Dimensional Recognition Technology for Rare English Words Q. Chen and L.M. Xu	4121
The Research on Computer Recognition Technology for Blurred Alphabet Images C.R. Liu	4125
Simulation Analysis for Collecting Model of Train Remote Communication Signal C. Huang	4129
The Simulation Analysis of the Signals Collection Model for Railway Locomotive Remote Communication X.H. Wu	4132
The Athletes' Irrational Posture Recognition Based on Minimizing Image Sequences J. Ge and L. Jiang	4136
Research on the Feature Parameter Extraction of Wheat Seeds' Bad Point Based on Image Processing	- •
Z. Wen, Q. Dong, J. Zhu and Y.B. Fan	4140
Presenting Color Additive Theory on Image's Channels Dynamically Y.Y. Zhu, W.J. Yang, L. Li and X.K. Sun	4144

A Public Transportation Query System Based on Automatic Correction for Speech Recognition	
H. Zhang and Y.Q. Wang	4148
An Interference Cancellation Space-Time RAKE Receiver in Asynchronous Cooperative Communications Systems D.W. Li, C.X. Pei and Y.L. Meng	4152
Image Feature Matching Based on SIFT Algorithm X. Zhang, Y.S. Zhang and H. Yao	4157
Research on Action Recognition of Human Body Based on Kinect Sensor D.D. Guo and X. Zhu	4162
A Proposed Nonbinary Network Codes Applied in Wireless Broadcast W. Chen, J. Wu and X.L. Huang	4167
Recognition System for Fatigue Facial Expression of Driver X.M. Wang and J.J. Zhang	4174
Cloud-Based Recognition Technology for Building Crack M. Jin and W.K. Zheng	4178
Research and Exploration on Static Image Compression Technology Based on JPEG2000 H. Tian, M.J. Li and H.H. Liu	4182
Image Mosaic Technology of Dance Movements Based on Digital Multimedia and Matlab Implementation L. Zhou	4107
Multi-Channel Data Acquisition System Analysis and Modeling N. Zhang and Z.H. Wu	4187 4192
The Evaluation Methods Based on Image Features Comparison C.L. Xu	4192
P-Sets and the Reduction-Identification of F-Information Camouflage C.X. Fan, F.J. He and H. Zhong	4201
Mappings from Binary Variables to QAM Symbols and Improvement of Peak Envelope Power of OFDM Systems	1201
F.X. Zeng, Z.Y. Zhang and L.J. Qian	4205
Cross-View Gait Recognition in 3-D Space Based on Gravity Center Track X. Chen and T.Q. Yang	4210
Matrix Projective Synchronization of Chaotic Systems and the Application in Secure Communication F. Liu	4216
Design of a Multi-Channel Random Demodulator for Wideband Signals J.L. Zhao, W.Q. Huang, Z.Q. Lv and X.J. Ding	4221
Preprocessing for Interference Fringe of Spherical Object Wave F. Gao, X.F. Xu, Z.Y. Jiao, D.L. Li and Y.L. Jia	4225
An Improved Blind Image Restoration Based on Bi-Spectral Reconstruction L.L. Liu and J.S. Tian	4229
CT Images Segmentation Based on Dynamic Relative Fuzzy Region Growing Algorithm Z.Y. Zhang and G.H. Lou	4233
Mix-Mode S Parameters Analysis of Crosstalk for Twisted Differential Line on PCB Y.L. Guan, L.L. Wang and S.H. Wu	4237
Study on Shape Recognition Based on Contour W. Zhang	4240
High Time Resolution Scanning Imaging Technique Research Based on Area CCD J. Jin, Y.L. Bai, W.Z. Yang, B.L. Zhu, B. Wang, Y.S. Gou and Q.L. Wang	4244
Modified Ocean Clutter Cancellation Algorithm in Sky-Wave Radar Z.R. Lin, J.F. Hu, Y.X. Zhang, W.G. Li and H. Ai	4249
Parameter Estimation of Polynomial Phase Signal by Unscented Kalman Filtering W.G. Li, J.F. Hu, H. Ai, Z.R. Lin and Y.X. Zhang	4253
Design Method of H.264/AVC Video Watermarking Based on Intra Prediction Coding H. Deng, C.H. Zhang, H.Z. Yu and J.F. Zhang	4257
Application of Texture in a Compressed Visual Simulation W. Zhang, C.H. Zhang and J.Y. Ren	4261

A Low-Cost Chaotic Radar Signal Design Method Y.X. Zhang, J.F. Hu, Z.R. Lin, W.G. Li and H. Ai	4265
Filtering Performance of Digital Alternate Array on Target Tracking D.K. Cao, J. Li and H.M. Liu	4269
A Image Registration Algorithm Based on Wavelet Pyramid for CCD Image G. Lu, J.P. Kang and Z.N. Zhai	4273
The Design of Dynamic Target Echo Intermediate-Frequency Signal Source of Radar P. Zhang, Y.H. Ding and H.A. Xia	4278
The Research of Calling System Based on GPS Positioning C.E. Zhang, L.J. Yang and Y. Li	4283
Content Based Images Retrieval Based on HSV Color Space and GLCM C.H. Su, H.S. Chiu and T.M. Hsieh	4287
An Improved PCA-SIFT Algorithm by Fuzzy K-Means for Image Matching N.L. Zhang, Y. Ma, X.F. Zhang and Y.L. Xu	4291
The Diversity Gains of Amplify-and-Forward Relay System with Frequency Selective Channels	
Y.H. Ding, R.J. Tian, K. Xue, Y. Tian, X.C. Wang, Y.M. Shi and X. Ma	4297
A Region Growing Algorithm Based on Anisotropic Filtering for Image Segmentation of the Liver	
L.P. Liu, Y.X. Sun, Q.Y. Huang, S. Yang and Y.F. Ma	4303
A New Algorithm of Image Matching Combining Sift and Shape Context Y.L. Xu, Y. Ma, S.B. Li, N.L. Zhang, X.F. Zhang and Y.P. Zhang	4307
Image Segmentation Based on Least Squares Support Vector Machines X.Y. Wang, Y.L. Ning and X.P. He	4314
Study of Image Segmentation and Image Restoration Based on Variational Method X.B. Shi	4319
Human Head Portrait Feature Extraction Based on SIFT X. Ding, S. Han, H.H. Yang, X.F. Wang and K.W. Yang	4322
A Research of Speaker Recognition Based on VQ and MFCC C.C. Huang, W. Gong, W.L. Fu and D.Y. Feng	4325
Optimization Method of Coherent Accumulation Operation Based on SIMD Architecture S.P. Liu	4330
Spectrum Analysis of Infrasound Signal B. Wang	4334
Design of Intelligent Acquisition Terminal for Communication Base Station Parameters X.N. Zhang and Z.Z. Zhang	4338
Wavelet Analysis in the Application of Signal Processing Y.D. Sun and Z.H. He	4342
A Discontinuous Transmission Method for LPC Speech Codec H.E. Xie, Q. Li and Q.J. Shu	4346
Robust Detection of Abandoned Objects Based on Modified Dual Background Segmentation B. Shi and B.Z. Wu	4351
Research of Anti-RGPO/RGPI Jamming for Radar Seeker D. Wu, H. Liu and Y.J. Wang	4355
The Application of Airborne Remote Sensing Technology in Land and Resources L.N. Dong, J. Tong and C.Y. Wang	4360
Investigation of Image Simulation Method of Morphological Algorithm on Organism Suffocation L.Z. Chen and R.D. Lin	4364
Image Space Coordinates Extraction Algorithm Based on the Perspective Projection Transformation Matrix B. L. Zhang, J.C. Vang and H.R. Lee	1260
B.L. Zhang, J.C. Yang and H.R. Lee Computationally Efficient Adaptive Sidelobe Blanker with Improved Mismatched Signals	4368
Rejection D.Y. Zhang, W.B. Liu and Z. Zhu	4372
Analyses of Ad Hoc Routing Protocol Based on Emergency Communication X. Yu and D.D. Yi	4378

Design of Fast Second-Order IIR Low-Pass Filter Based on Parameter Optimization Q.R. Li, M.M. Jiang, B. Luo, X.P. Hu and K.H. Tang	4382
Research of SIP Signaling Delay in IP Multimedia Subsystem X. Yu and X.N. Zhang	4387
Analysis and Study of 4G Mobile Communication Technology F. Shen and G. Xu	4391
Research of the Cylindrical Surface of the Panorama on the Mobile Terminal Y. Liu, J. Liu and Z.J. Cen	4395
Application of Wavelet Transform in Radar Echo Signal Level Meter Denoising J.W. Leng and Y.N. Guo	4399
CMOS Real-Time Image Acquisition and Display System Design Based on FPGA J.W. Leng and Y.H. Wu	4403
Simulation and Analysis of Performance of Turbo Coding S.P. Guo	4407
The Implementation of Drawing System Based on MFC H.E. Chen	4411
Fetal Electrocardiogram Extraction Based on SWT-MM Method Q. Liao, J. Luo and Y. Liu	4415
Sequence Localization Algorithm Based on 3D Voronoi Diagram in Wireless Sensor Network	
X. Yang and J. Liu	4422
The Design of Signal Generator with DDS Based on FPGA L. Jia, W. Sun, X. Ma, J. Sun, F. Wang and W.Q. Zhao	4427
An Optimization Algorithm of Image Defogging Based on Retinex X.Q. Ji, J.Z. Cheng, H. Du and T.T. Zhang	4431
The Collocation Method's Application on Low Earth Orbit Satellite Orbit Integration J. Zhou and X.C. Wu	4435
The Application of DFT Technology in Soft Demodulation of $\pi/4$ -DQPSK Signals Y.J. Wu, G. Fu and P. Yu	4439
Research on Accuracy of Multi-Channel Star Tracker S. Tong, H. Li and A.G. Wang	4443
Study of Image Inpainting Method Based on Bayesian Compressive Sensing H.S. Dang, N. Zhang and C.J. Guo	4447
Study of Gabor Features and Heart Sound Signal Recognition by the Principal Component Analysis	4450
L.J. Zhang, L. Zhang, Z.M. LI and S.Y. Cui A Novel Design on Compact Slot Antenna with Multi-Band for WiMAX/WLAN	4452
Applications L. Zhu, X.J. Gao and L. Zheng	4455
Design and Characterization of Miniaturized Slot Antennas Loaded with Silts for WiMAX/WLAN Applications	
L. Zhu, X.J. Gao and L. Zheng	4459
Limited Length and Limited Weight Intelligent Cutting System Based on Image Pattern Recognition and Closed Loop Feedback Device Y.L. Zuo and X.F. Guo	4463
Multi-View Video Signal Processing Based on Disparity Estimation H.L. Wang	4467
A Hybrid SVD-DCT Watermarking Method Used for Halftone Image Q. Guo, G.X. Chen, J. Luo, Q.F. Chen and Z.G. He	4473
Research on the Geometric Distortion Auto-Correction Algorithm for Image Scanned J. Zhang and G.X. Chen	4477
MRScheduling: An Effective Technique for Multi-Tenant Meeting Deadline in MapReduce Z. Wang, B. Suo and Z. Wang	4482
Design of Remote Data Acquisition System Base on ZigBee and GPRS D.W. Xu, L.L. Deng and S. Ren	4487
Remote Data Recorder Design Based on Embedded Linux C. Zhu, H. Xu, N. Li, X.B. Tian and H.J. Liu	4491

A Secure Lightweight Mutual Authentication for RFID Systems H. Oin and Y. Liu	4496
An Improved Directional GVF Snake X.F. Zhang	4501
Mechanical Parts Recognition with 3D Graphical Modeling G.L. Lu, Y.Q. Zhou and X.Y. Li	4505
Research on the Application of Computer-Aided Sport Technology L. Dong and J. Ren	4509
Research and Development on User Perception Analysis System for the PS Domain of TD-SCDMA Network T.T. Ge and B. Xi	4513
Optimization Design of Topology Structure of High Speed Train Communication Network Node	4517
B.Z. Liang, S. Guo and Z. Han Method of Base Station Positioning for Smart Phone Based on Vector Matching X.Y. Meng, X.J. Li and T.F. Gao	4521
The Dispersion Research Based on its OTN Network Backbone Optical Transmission Network Z.D. Zhao, M.M. Pei, R.J. Xiao and Y. Zhou	4525
High-Reliable WDM Optical Access Network Expanding by Double-Fiber-Tangent Ring Q. Shao and Y. Shao	4529
Study on Networking Architecture for 5G System to WLAN Interworking L. Yu, F. Cheng and Z.Z. Zhang	4533
Researching the Information of Transmission Technology Based on Traffic Lights Q. Li and X.R. Zhang	4538
Study on Mobile Network System Based on Moodle Platform H. Hua and M. Yao	4542
Modeling and Analysis of Mobility Management in Wireless Communication Networks J. Chen, W. Xi, W. Mo and X.L. Sun	4546
A New Algorithm to Compensate Ionosphere Phase Contamination H. Ai, J.F. Hu, W.G. Li, Z.R. Lin and Y.X. Zhang	4551
The Research on Phantom-Bit Technology of Digital Phase Shifters for Satellite Tracking System of Phase Array	1555
C.H. Li, W.X. Jiang and G.L. Wang Multi-Station with one Frequency Fire Emergency Network Based on TDD-OFDM Z. Li	4555 4559
Access and Optimization of OSD Based on FPGA D. Gui and Z.J. Yu	4563
A Compression Sensing Sampling Scheme Based on the Golden Section Principle X.N. Li, Z.H. Wu and H.Y. Xing	4567
Denoising the Total Magnetic Intensity Data in the Ocean Basin of the South China Sea by Using Various Filtering Techniques Y.W. Ma, L.H. Guo, G.L. Zhang and L.P. Sun	4573
Nonlinear Filter Smoothing for Aeromagnetic Vertical First-Order Derivative Contour Mapping on the Scale of 1:250,000 J. Tong, L.N. Dong, W. Zhang and L.Y. Xia	4577
Simulation and Correction of the Slice Profile Based on SLR Theory in a 0.35 T Permanent MRI System	
Y.Y. Li, Y.L. Huang and Z.Q. Shi Design of Reconfigurable Carrier NCO and PN Code NCO in Satellite Navigation Receiver P. Gong, X.C. Wu and G. Fu	4581 4587
Real-Time Positioning Accuracy Analysis of Single-Frequency GPS Based on Ionosphere Grid Products	
J. Zhou and X.C. Wu Demodulating Method of Frequency Predictable Digital FM Signal	4591
G. Fu, J.H. Lin and Q. He The Application of a Linear FM Interference Suppression in DSSS Technology Systems	4595
G. Fu, J.H. Lin and Q. He	4599

Q.Q. Wan	4603
A Novel Multi-Timescales Layered Intention Recognition Method Z.G. Chen and X.F. Wu	4607
Design and Implementation of Large-Scale Video Tracking Software System J.H. Zhao	4612
Foggy Port Surveillance Video Clearness Algorithm Based on Wavelet Packet Decomposition Z.Y. Xu, Y.K. Wang, X.H. Su and Y. Liu	4616
	4010
Algorithm of Video Decomposition and Video Abstraction Generation Based on Face Detection and Recognition X.K. Wu, C.G. Xie and Q. Lu	4620
Point Cloud Registrational Computing Based on Hadoop S. Liu and X.Y. Xie	4624
Nonlocal TV-L1 Inpainting Model and its Augmented Lagrangian Algorithm X.F. Yin, J.M. Duan, Z.K. Pan, W.B. Wei and G.D. Wang	4630
An Improved Multilevel Halftoning Algorithm Using Neighborhood Growing Y.M. Tian, R. Pan and W. Feng	4637
An Improved QIM Watermarking Algorithm Z.X. Lin, Y.S. Li and J.T. Li	4641
The Application of Panoramic Technology in the Protection of Red Cultural Heritage Y. Kuang and J. Jiang	4645
Denoising Processing Technology for Remote Classimage Transmission Based on Cloud Computing Y. Tang	4649
Investigation of Local Feature Extraction D.C. Sun	4653
Spatial Mapping of Vegetation Based on Out-of-Box Vegetation Indices L. Liu, J.J. Zhang, M.J. Zhang, W.G. Wang, C.H. Wei and T.R. Zheng	4657
A Beam Domain Selection Method Based on the Conventional Beam Forming L.Z. Jiang	4663
Chapter 7: Materials Processing and Manufacturing Technology, Industry Applications	
Effects of High Pressure Processing on the Quality of Vacuum Packed Fish Patties Y.C. Zhu, L.Z. Ma, Y.J. Tian, H. Yang, Y.H. Guo and K.S. Zhang	4671
Effects of High Pressure Processing on the Quality of Vacuum Packed Fish Patties Y.C. Zhu, L.Z. Ma, Y.J. Tian, H. Yang, Y.H. Guo and K.S. Zhang The Research on the Spindle Vibration State Suppressor after Remanufacturing L. Liu	4671 4677
Y.C. Zhu, L.Z. Ma, Y.J. Tian, H. Yang, Y.H. Guo and K.S. Zhang The Research on the Spindle Vibration State Suppressor after Remanufacturing	
Y.C. Zhu, L.Z. Ma, Y.J. Tian, H. Yang, Y.H. Guo and K.S. Zhang The Research on the Spindle Vibration State Suppressor after Remanufacturing L. Liu Precision Compound Sand Control Screen Internal Flow Field of the CFD Simulation Z.J. Wang, T.Z. Zhang, J. Shang and M.K. Evariste Study on Characteristics of Rayleigh Waves in Media Containing Shallow Rectangular Cavities	4677 4682
Y.C. Zhu, L.Z. Ma, Y.J. Tian, H. Yang, Y.H. Guo and K.S. Zhang The Research on the Spindle Vibration State Suppressor after Remanufacturing L. Liu Precision Compound Sand Control Screen Internal Flow Field of the CFD Simulation Z.J. Wang, T.Z. Zhang, J. Shang and M.K. Evariste Study on Characteristics of Rayleigh Waves in Media Containing Shallow Rectangular	4677
Y.C. Zhu, L.Z. Ma, Y.J. Tian, H. Yang, Y.H. Guo and K.S. Zhang The Research on the Spindle Vibration State Suppressor after Remanufacturing L. Liu Precision Compound Sand Control Screen Internal Flow Field of the CFD Simulation Z.J. Wang, T.Z. Zhang, J. Shang and M.K. Evariste Study on Characteristics of Rayleigh Waves in Media Containing Shallow Rectangular Cavities Y.F. Si and Y. Wang Research on a Kind of Processing Equipment of Complex Intersecting Line	4677 4682 4686
Y.C. Zhu, L.Z. Ma, Y.J. Tian, H. Yang, Y.H. Guo and K.S. Zhang The Research on the Spindle Vibration State Suppressor after Remanufacturing L. Liu Precision Compound Sand Control Screen Internal Flow Field of the CFD Simulation Z.J. Wang, T.Z. Zhang, J. Shang and M.K. Evariste Study on Characteristics of Rayleigh Waves in Media Containing Shallow Rectangular Cavities Y.F. Si and Y. Wang Research on a Kind of Processing Equipment of Complex Intersecting Line Z.J. Zhang, Z.P. Chen, E.D. Xu and H.L. Shi Analysis and Design of MVC-Based Work Flow	4677 4682 4686 4694
Y.C. Zhu, L.Z. Ma, Y.J. Tian, H. Yang, Y.H. Guo and K.S. Zhang The Research on the Spindle Vibration State Suppressor after Remanufacturing L. Liu Precision Compound Sand Control Screen Internal Flow Field of the CFD Simulation Z.J. Wang, T.Z. Zhang, J. Shang and M.K. Evariste Study on Characteristics of Rayleigh Waves in Media Containing Shallow Rectangular Cavities Y.F. Si and Y. Wang Research on a Kind of Processing Equipment of Complex Intersecting Line Z.J. Zhang, Z.P. Chen, E.D. Xu and H.L. Shi Analysis and Design of MVC-Based Work Flow Z.H. Mu Stiffened Panels Modal and Stress Analysis Based on ANSYS T.B. Ma, J.J. Zhang and F. Du Quality Control of Camouflage Materials Development Project Using Super-Efficient C ² GS ² Model	4677 4682 4686 4694 4697 4701
Y.C. Zhu, L.Z. Ma, Y.J. Tian, H. Yang, Y.H. Guo and K.S. Zhang The Research on the Spindle Vibration State Suppressor after Remanufacturing L. Liu Precision Compound Sand Control Screen Internal Flow Field of the CFD Simulation Z.J. Wang, T.Z. Zhang, J. Shang and M.K. Evariste Study on Characteristics of Rayleigh Waves in Media Containing Shallow Rectangular Cavities Y.F. Si and Y. Wang Research on a Kind of Processing Equipment of Complex Intersecting Line Z.J. Zhang, Z.P. Chen, E.D. Xu and H.L. Shi Analysis and Design of MVC-Based Work Flow Z.H. Mu Stiffened Panels Modal and Stress Analysis Based on ANSYS T.B. Ma, J.J. Zhang and F. Du Quality Control of Camouflage Materials Development Project Using Super-Efficient C ² GS ² Model J. Liu, L. Li, X.L. Lv, X.D. Weng and Z. Zhou	4677 4682 4686 4694 4697
Y.C. Zhu, L.Z. Ma, Y.J. Tian, H. Yang, Y.H. Guo and K.S. Zhang The Research on the Spindle Vibration State Suppressor after Remanufacturing L. Liu Precision Compound Sand Control Screen Internal Flow Field of the CFD Simulation Z.J. Wang, T.Z. Zhang, J. Shang and M.K. Evariste Study on Characteristics of Rayleigh Waves in Media Containing Shallow Rectangular Cavities Y.F. Si and Y. Wang Research on a Kind of Processing Equipment of Complex Intersecting Line Z.J. Zhang, Z.P. Chen, E.D. Xu and H.L. Shi Analysis and Design of MVC-Based Work Flow Z.H. Mu Stiffened Panels Modal and Stress Analysis Based on ANSYS T.B. Ma, J.J. Zhang and F. Du Quality Control of Camouflage Materials Development Project Using Super-Efficient C ² GS ² Model	4677 4682 4686 4694 4697 4701

Assembly Production Status and Development Trend of Industrial Electric Detonator S.Z. Wu and H.J. Li	4714
Thermal-Structural Analysis of Ni-Based Alloy Panel with Active Cooling Thermal Protection System	
G. Sun and Y.G. Sun	4718
A Comparative Study of Two Data Reduction Methods for Steel Classification Based on LIBS	4700
H.Y. Kong, L.X. Sun, J.T. Hu, Y. Xin and Z.B. Cong	4722
Finite Element Analysis of Stiffened Composite Panels Subjected by Low-Velocity Impact W.C. Zhang, Y. Guo, Z.D. Guan, X. Guo, W. He and R.M. Tan	4726
Changes of Endothermic Peak of Expanded Graphite Based Chemical Heat Storage Materials Ca _x Zn _y (OH) _{2(x+y)} M.S. Zheng, S.M. Sun, P.Y. Shi and J. Hu	4731
Study on Surface Composites of <i>In Situ</i> Synthesis V8C7 Particle Reinforced Iron Matrix K. Wang, L.L. Wang, Y.H. Xu and Y. Han	4735
Diversity of Cell Wall Composition and Saccharides Production with NaOH Pretreatment in Bioethanol Material: Miscanthus N. Xu, B.L. Dai, Z. Wu, F.H. Mu and J.M. Xu	4740
Application of Lead Sealing Made of Aluminum and Aluminum Alloy Material	
L. Feng, H. Yan and H. Wu	4744
Research about the Effect of Ultrasonic Impact on the Mechanical Property of Welded Cruciform Joint of P355NL1 Steel B.L. He, Y.X. Yu, S.Y. Lei and J.P. Shi	4748
	4/40
Research about the Effect of Ultrasonic Impact on the Mechanical Property of Welded Butt Joint of P355NL1 Steel Y.X. Yu, B.L. He, Z.J. Zhang and J.P. Shi	4752
A Bioactive Material from Plants Rich in Anthocyanins	
Q.C. Jiao, X.R. Kong, G.R. Sun and F.G. Du Preparation and Characterization of GNP/TPU Composites	4756
B.F. Xu, S. Lai, Z.D. Lin, J.M. Chen and J. Lin	4760
Study on the Dynamic Mechanical Property of High Strength Steel 18NiC250 X.J. Shao, P.K. Liu, Z.Y. Zeng and W.G. Guo	4763
Microstructure and Wear Resistance of AlFeCuCoNiCrTi _{1.5} High Entropy Alloy Coating on AZ91D Magnesium Alloys by Laser Cladding K.J. Huang, Y.Y. Wang and X. Lin	4766
The Grain Growth of Austenitic Model Steel during Fast Heating	
S.Q. Yuan, G.L. Liang and Y.H. Yang	4772
Analysis and Application for the Influence of Cooling Strategy on Cooling Capacity in the Laminar Cooling of Hot Rolling Strip	1776
D.Z. Zhang and H.L. Ye	4776
Tribological Properties of TiN Coating at Elevated Temperature up to 600°C A.H. Liu and S.X. Zhou	4784
The Analysis and Research of EPC Process Engineering T.P. Yan	4788
Research on Tool Materials for High-Speed Cutting G.R. Xie and W.A. Xie	4792
Effect of Heating Rate on Structures of Carbon Template Prepared from Cotton Stalk Q. Wang and Y.H. Zhang	4795
Preparation of Al Coating on Mg-Li Alloy with Molten Salt Replacement Z.Y. Niu, Z.K. Qu, T.T. Ma and X.Y. Jing	4798
Project Application in the Field of Composite Materials in Badminton Y. Liu	4802
Assembly Process Planning Based on Tri-Dimensional Visual Platform J.K. Sun, C.Y. Yang and H.H. Qiu	4805
Integrating Environmental Aspects in Eco-Design through a Product Information Model X. Ji	4809
Quality Control of Camouflage Materials Research Based on C ² GS ² Model L. Li, J. Liu, X.L. Lü, M.X. Sui, G.J. Wu and Z. Zhou	4814

Phase Field Simulation of Dendrite Growth of Coupling Coefficient Effecting S.T. Li and X.F. Yuan	4819
Analysis for the Computation Method of Crown on Hot Strip Production Line X.P. Cao, Y. Chen and M.X. Liu	4822
Influence of Bending of Plastic Vertical Drain on Consolidation via Vacuum Preloading B.B. Xu, S. Yamada and T. Noda	4826
A Research on Intelligent Fuzzy Control in Thermostatic Process of the Sand Casting and Gas Forming Tester L.F. Zhu, K. Wang, W. Wei, S. Li, X.J. Duan and Z.Y. Lu	4831
The Research of Forming Process Parameters Influence on the Square Cup of TWBs' Weld-Line Movement Y. Gan, H.C. Wang and Y.Y. Guo	4835
The Determination of Low Consumption Repairable Air Materiel Consumption Quota Y.Q. He, J.J. Li, T. Wang and S.L. Hou	4840
On the Discussion of Abstract Form and Art Empathy of the Ramie Materials in Modern Fiber Art M.J. Li	4844
Study of Financing Policy on the Development of Strategic Emerging Material Industry C.P. Liu, Y.F. Yuan, Y.X. Yang and S. Guo	4848
The Research for Assembling Double Circuit Steel Tube Tower with New inside Pulling Wire	
Y.Z. Ju, H. Zhou and W. Fan	4852
The Development of 3D Print Technology L. Dai and X.Y. Hong	4856
The Effect of Doping Fe on Magnetic Property of Colossal Magnetoresistance of La _{0.7} Sr _{0.3} MnO ₃ Materials B.H. Li and P.P. Xiang	4860
Research on the Active Pressurization Control Method of RBS L. Chu, Y. Yang, C. Guo, Y.T. Huang and W.H. Li	4864
Life Prediction of XLPE Cables F. Shen and G. Xu	4869
Study on Hot Deformation Behavior of a New Titanium Alloy Q.H. Zheng, K.L. Wang and S.Q. Lu	4872
Reliability of the FDS Simulating on Fire Extinguishing with Straight Stream of Compressed AFFF L. Su, L.J. Wang and L. Xue	4876
Electronic Structures and Magnetism of DO ₃ -Type Heusler Alloys Rh ₃ M (M=Al, Ga, In, Si) L. Zhang, M.X. Hao, Y.C. Gao and X. Gao	4880
Experimental Research on Apparent Viscosity Behavior of Cationic/Anionic Worm-Like Micelles	
N. Li and R. Zhang Microstructure of 316L Stainless Steel Coating Deposited by the Low Pressure Plasma	4884
Spray D.M. Yang and B.H. Tian	4888
Characterization of the Expanded Plasma Jet Generated at Reduced Chamber Pressure D.M. Yang and B.H. Tian	4892
Study on the Advantages and Role of Soft Decoration Materials in Shaping the Indoor Environment Art Atmosphere W.S. Mao	4896
Effects of Nozzle Distance on Micro Quality in 3D Printing Z.H. Yu, H.M. Wang and G.X. Chen	4900
Based on SLS Rapid Prototyping Parts Glycosylation Performance Analysis L.X. Yang, Y.B. Xue, X.G. Zhou and R.X. Chai	4905
Influence of the Bonding Temperature on the Microstructure at the Cu/Al Interfacial	
Region Y.Q. Han, L.H. Ben, J.J. Yao, S.W. Feng and C.J. Wu	4909
Business Ontology Building in Cloud Manufacturing Z. Xie	4914

Application of Study on Liquid Ablation in Laser Propulsion C.Y. Cui	4918
The Analysis of Interfacial Debonding Using Voronoi Cell Finite Element Method Y.Y. Liu, R. Guo and W.H. Gai	4922
Investigation on the Electrochemical Micromachining of Micro Holes with Variable Cross-Section K. Wang, M. Gao and Q. Shen	4927
Effects of Zirconium on Impact Toughness for the Hull Structure Steel Plate T.L. Qi	4932
Preparation of High-Solids UV-Curable Actylate Pressure-Sensitive Adhesive with Low Viscosity for Printed Electronics Y.Y. Cui and G.X. Chen	4936
Satellite Oilfield in High Water-Cut Stage New Composite Displacement System Research H.R. Jiang and X.J. Zhuo	4941
Intrinsic Safety Explosion-Proof System X. Dan, H.L. Zhao, W. Lin and Z. Ting	4945
The Crystal Structure and Magnetic Property of Bi-Substituted Nd ₂ Fe _{17-x-y} Ti _x Si _y Intermetallic Compounds L.M. Sun, S.B. Han, Y.T. Liu, D.F. Chen and X.F. Liu	4950
Posture Alignment and Finishing System for Aircraft Wing H.S. Zhang	4956
Magneto-Thermal Simulation Analysis of the Sheet Metal in the Transverse Flux Induction Heating Process	
Y.H. Zhang and Y.J. Chen Applications of 3D Printing Technology in the Mechanical Manufacturing W.L. Ma, F.H. Tao, C.Z. Jia and J.C. Yang	4960 4964
Analysis and Compensation Strategy of Non-Linear Error in Five-Axis CNC Machining H.J. Liu, A.G. Zhang, J.B. Zhao, J. Shang and J. Liu	4967
Study on Deformation of Thin-Walled Workpieces Milling Machining Based on Finite Element Method J.Q. Wang	4971
NC Milling Machining Friction Forging Die Based on UG NX4 X.Z. Feng, J. Li, Z. Wang, Z.Q. Jiang, J.W. Cheng, L.J. Chen and L.G. Chen	4976
The Origin Alignment Method of Box Parts Based on Boring and Milling Machining Center Q.L. Shu, Z.J. Cheng and X.S. Liang	4980
Chapter 8: Civil and Structure Engineering, Architecture Science	
The Linear Monitoring Analysis of PC Continuous Beam Bridge Y.X. Yang and G. Gong	4987
Interval Reliability Analysis of Parameters of Section of Main Beam J.F. Zhou and G.R. Lu	4991
Test Study on Expansive Soil (Rock) of Retaining Wall of Yun-Gui Railway X. Yang and G.L. Yang	4995
$ \begin{array}{c} \textbf{Experiment on Bending Bearing of Damaged Old Wooden Beams Strengthened with CFRP} \\ \textbf{X.Z. Zhang, Y. Zhu and B. Jia} \end{array} $	5001
Analysis of the Results of Bending Bearing of Damaged Old Timber Beams Repaired and Strengthened with CFRP S.Z. Xiong, X.Z. Zhang and B. Jia	5005
A Study on the Highway Alignment Method Y.W. You	5009
The Finite Element Model Updating of Long Span Cable-Stayed Bridge Based on Static and Dynamic Loading Test L.N. Yue and S. Li	5014
Temperature Field Analysis of Concrete Filled Steel Tube Reinforced Concrete Columns in Fire	
X.F. Liu, Q.X. Ren and L.G. Jia	5019

Experimental Investigation of Compression of Overlength Bored Piles Shaft in Loess Area X. Xie, D.H. Wang and J.W. Zhang	5023
Influence Analysis of Ground Asymmetric Filling Load on Spandrel with Different Bases of Existing Open Trench Tunnels	5020
J. Cao, Q.X. Pu, H.M. Liu and S.S. Zeng Analysis of Dynamic Characteristics of Pile-Soil-Water Coupling Effect in Consideration of	5028
Large Span Cable-Stayed Bridge X.M. Li	5035
Soil Pressure Test and Numerical Analysis on Reinforced Earth Retaining Wall of Green	
Gabion X. Yang and G.L. Yang	5039
The Applications of Laminated Rubber Bearing on the Seismic Control of the Continuous	
Beam H. Come V.V. Come and I.W. Direct	5046
H. Sun, X.Y. Gao and J.W. Ding Application of CM(1.1) Model Established by Moving Average Method in Stress Prediction	5046
Application of GM(1,1) Model Established by Moving Average Method in Stress Prediction of Rigid Frame Bridge Construction T.Z. Hao and H.Q. He	5050
Study on the Shear Lag Effect of the PC Box Girder Bridge with Corrugated Steel Webs	
under Concentrated Loads R.J. Jiang, Y.F. Xiao, X.W. Yi, Q.M. Wu and W.M. Gai	5054
Research on Force Performance of Cable Breaking on Cable-Stayed Bridges	3034
X.L. Jin, Y. Yang and K. Qian	5061
Study on the Nonlinear Flow Percolation Law in Low Permeability Carbonate Reservoir of	
HF Oilfield S. Jiang, Z.M. Yang, X.W. Liu, M.T. Wang and Q. Zhang	5065
Comprehensive Evaluation of Low Permeability Sandstone Reservoir Based on Entropy-	2002
Weighting AHM X.F. Lu and F.J. Dong	5071
Substance Characteristic and Formation Mechanism Analysis of Suo Duoxi Deposit X.J. Dong, C. Chen, W.F. Mao and X. Chai	5077
Application of Earthquake Response Spectrum in the Ultra-High-Rise Building Design C.X. Zhou and S.P. Zheng	5081
The Application of Traditional Building Materials in Modern Architecture J. Wang	5085
Impressed Current Cathodic Protection for Seawater Cooling Concrete Structures in Zawr	
Port, Saudi Arabia J. Huang, D.J. Fang and Y.P. Wang	5089
Study on the Law Load of the Secondary Lining of Da Liang Tunnel Z.J. Wang, S.Y. He, G.Q. Wu and Y. Yuan	5093
Variable-Permeability Well Test Model and Pressure Response of Non-Darcy Flow in Low-	
Permeability Reservoirs	5007
X. Lei, M.W. Wu, F.B. Zhang, S.Q. Liu, Y.Q. Xiang, W.X. Lan and H.Y. Yu	5097
Application of Cable Erection Method to Construction of Concrete Arch Bridge in Alpine and High Elevation Area	
Y. Wang and D.M. Zhang	5101
Research on Designing Building Skin under the Background of Information Dissemination $\boldsymbol{Q}.$ $\boldsymbol{L}\boldsymbol{i}$	5105
Three Adaptabilities of the Traditional Vernacular Architecture of the Han Nationality in Lingnan	
X.X. Tang	5109
Numerical Calculation of Micro-Plie in Slope Engineering X.S. Tang, J.P. Xin and Y.R. Zheng	5113
Scientific and Technological Progress to Promote the Development of Olympic Construction X.Y. Yang	5121
The Evolution of Olympic Venues Construction and Overall Layout X.Y. Yang	5125
Research on the Development of College Sports Architecture X.Y. Yang	5129

The Effect of Roundness on the Buckling Strength for the Submerged Pressure Hull C.Y. Hsu, C.C. Liang, T.L. Teng and C.W. Chang	5133
Optimization Research on Supervision Process in Building Energy Conservation X. Chen and S.F. Yang	5138
Review of Research on Interlayer SAGD in Domestic and Foreign P. Luo	5142
Stability and Large Deformation of 2-D Laminate Circular Thin Curved Beams C.W. Lin, H.M. Tseng and T.L. Teng	5146
Transfer Mechanism of Covered Effect for Covered Sheet Pile Wharf H. Zhang, Y.F. Gao and H.M. Tan	5151
Chapter 9: Bio- and Medical Applications, Chemistry Engineering, Resources and Environmental Engineering	
Research on the Extraction and Antibacterial Activity of Tea Polyphenols F.L. Sun, G.N. Chen, B. Wu, W.N. Zhu and Y. Yan	5157
Failure Analysis and Improvement of the Heat-Exchangers on Styrene Equipment Z.F. Wang	5161
Study on Mapping Algorithm from EBOM to PBOM for Chemical Tower in UG Q.G. Chen and J.C. Zhang	5165
The Quality Control of Eutrophic Culture Sediment by Immobilized Cells and Conditions Manipulation	5160
D.M. Gao, M.S. Zhang and B. Hong The Study of Typical PWR Nuclear Fuel Cycle	5169
Y. Hong, L.L. Jiang, D.X. Niu, F.Y. Liu, X.Y. Wang and L.N. Wu Research on Different Heat Transfer Characteristics of the Dirt on the Pipe	5174
L. Bai and T. Liu	5179
The Health Risk Assessment and Characters of Vegetable Pb in Jiutai Suburb W.J. Fu and G.L. Ma	5183
Performance Analysis of PEM Fuel Cell Using Pulsation Approach Y. Xiao, Q.H. Jia, C. Li and Y.J. Chang	5188
Extraction and SDS-PAGE Analysis of Proteins from Gualou Seeds J.B. Zhao, J. Yu, Y.L. Liu and C.L. Li	5193
Protein Subcellular Localization Feature of Essential/Nonessential Genes in 28 Prokaryotes X. Liu, X.L. Geng and H.L. Tang	5197
Identification of Important Proteins in Protein Interaction Network Based on SVM Y.L. Zha and W.C. Luo	5202
Dissolution Condition Effect on Cellulose in Ionic Liquid and the Recycling of Ionic Liquid Y. Hao, T.T. Li, X.L. Ma and G.B. Guo	5207
Biogas Liquefaction Process Design and Analysis Based on Mixed Refrigerant LNG Process S.X. Zhou, Y.L. Zhang and A.H. Liu	5211
Study on Spatial Distribution of UVA Radiant Intensity for Ballast Water Treatment M.X. Zhang, C.Y. Yuan, L. Shi, W. Shi and Y.M. Zhu	5216
Toxic Effects of Crude Oil Water Accommodated Fractions on the Cardiac Function of Marine Medaka (<i>Oryzias melastigma</i>) Embryo Z.D. Zhang, Q.L. Yan, R.R. Wang and D.Y. Xu	5220
An Endogenous Growth Model Based on Pollution Control D.B. Cang	5224
Effects of Different Reagent on the Separation of Starch and Protein in Corn Endosperm R. Yan, X.H. Li and X.J. Qi	5227
The Limit of Kirin Factory Ore Body by the Dynamic Multi-Plans in Huize Lead-Zinc Mine X.X. Yu, J.G. Gao and Y.Z. Liu	5231
Analysis on Carbon Emission Right Theories Z. Chen	5235
The Anti-Obesity Effect of Instant Pu-Erh Ripe Tea in Mice with Hydrogenated Oil Diet-Induced Obesity	
M. Lian, Y.F. Jiang, S.D. Lv, Y.L. He, J.S. Zhou and Q.X. Meng	5239

The Influence of KT on Wheat Anther Dedifferentiation X. Yang, L.Q. Zhang, C.L. Liu, D. Wang and S.J. Wang	5244
The Anti-Obesity Effect of Instant Pu-Erh Black Tea in Mice with Hydrogenated Oil Diet-Induced Obesity	
M. Lian, Y.F. Jiang, S.D. Lv, Y.L. He, J.S. Zhou and Q.X. Meng	5248
Experimental Study on the Droplet Separation Performance of PTFE Demister F.M. Zhang, D.D. Feng, Y. Xu, X.B. Pei, S.Q. Chen and R.X. Du	5252
Effects of Perilla Frutescens Leaf Total Flavonoid on Enzyme of Lipoprotein Metabolism and Antioxidation in Hyperlipidemia Rats	E25.6
Y. Shen, M. Zhu, M.Y. Zhai, G. Lv, T. Li and X. Sun	5256
Effect of Procedure Parameters on the Antioxidant Property of Perilla Frutescens Leave Extracts Y. Shen, M. Zhu, M.Y. Zhai, G. Lv, T. Li and X. Sun	5259
Antioxidant Activity of Fruits of Perillafrutescens J.R. Song and G. Lv	5262
Determination of Rhodium in Rhodium Octanoate Organic Waste Liquid Using Teflon Pressure Vessel-Assisted Sample Digestion and ICP-OES	
J.M. Pan and X.J. Wei	5266
Separation of Ethanol/Water in the Ethanol Adsorption of Functional Fiber H. Zhao	5270
Effect of a New Quinoline Inhibitor on Corrosion of X80 Pipeline Steel X.R. Guan, D.L. Zhang, J.J. Wang and Y.H. Jin	5273
Research on the Flotation Experiment of a Low-Grade Barite Ore in Myanmar H.J. Wang, H.X. Dai, W.L. Yang and T.T. Li	5277
Determination of Palladium in Waste Palladium-Loaded Carbon Catalyst Samples Using Microwave-Assisted Sample Digestion and ICP-OES C.M. Shi and X.J. Wei	5281
Effect of Kernel Moisture Content to the Result of Bare Hand Threshing of Corn Ear Interval	
X.P. Li, Z. Du and Y.D. Ma A Learning Method for Predicting the Binding Strength in RNA-Protein Complexes	5285
T. Wang, J.X. Xue and T. Xia	5291
Temporal and Spatial Distribution Pattern of Carbon Sink in Forest Vegetation of Jiangxi Province Q.G. Zhang, S.F. Wang, Y.J. Zhang and J.Y. Wu	5295
Effect of Novel Preservative Solutions for Fresh-Cut Apple by Coating	
H.Y. Wu, J. Xiong and J. Ye Synthesis and Properties of UV-Curable Soybean Oil Based Polyfunctional Acrylate S. Jiang, G.X. Chen and M.H. He	5300 5304
UV Curable Thiol-Ene Adhesive for Flexible Packaging Based on CO	
Q. Wang, G.X. Chen, J.L. Tai, Q.F. Chen and M.H. He	5308
Distribution and Changing of Petroleum Hydrocarbon in Jiaozhou Bay Waters D.F. Yang, P.Y. Sun, L. Ju, C.H. Wang and Y.L. Liu	5312
Effect of Hg in Jiaozhou Bay Waters-Transfer Processes D.F. Yang, S.T. Min, H.G. Ge, F.M. Song and Z.F. Liu	5316
Research on Related Problems of PM2.5 in Air T.J. Leng	5319
The Distribution and Content of Chromium in Jiaozhou Bay D.F. Yang, S.X. Zhu, F.Y. Wang, H.Z. He and Y.J. Wu	5325
The Source and Input way of Cadmium in Jiaozhou Bay Y. Chen, Q.H. Yu, T.J. Li, Y.J. Zhang and D.F. Yang	5329
The Structure of Environmental Background Value of Cadmium in Jiaozhou Bay Waters D.F. Yang, F.Y. Wang, Y.F. Wu, H.Z. He and S.X. Zhu	5333
An Analysis of Flavour Compounds of Bananas under Different Drying Methods on the Basis of GC-MS Computer Technology	
B.Y. Li, J. Yang, K.D. Yin, F.L. Kong and J.F. Bi	5336
Prediction of siRNA Efficacy Using BP Neural Network X. Wang and F. Zhang	5341

Design of Software of Automatic High through Screening Equipment for Microbe P. Gao, Q. Cai and J.S. Zhang	5346
Based on the Fixed Length Sliding Window Spectrum Curve of Gene Identification Method Study	
T.J. Leng and L.Q. Tang	5351
Application of Magnetic/Magnetic Fluorescent Microsphere Preparation in Genes Food Testing Y.H. Liu	5356
The Performance of Z-N Catalyst under Different Reaction Conditions R. Zhang	5360
The Research on Ni-Based Ammonia Decomposition Catalyst J. Zou, D.P. Lu and Q.J. Zhai	5364
The Beneficiation of the Barite Ore in China H.J. Wang, H.X. Dai, W.L. Yang and T.T. Li	5368
Use of a Constructed Wetland Designed to Remediate Eutrophicated Landscaping Water A.F. Li, W.J. Xu, Y.Y. Ning and T. Pan	5372
Providing Stable Development of Technogenic Systems Formed during Mineral Exploration in the Far Eastern Federal District L.T. Krupskaya, V.P. Zvereva and N.G. Volobueva	5379
One-Dimensional Vertical Infiltration Characteristics of Red Loam S.K. Huang, P.F. Gu, X.Y. Zhao, Q.B. Pei and J.L. Gao	5383
The Geophysical Characteristics and Ore Control of the Lengkou Fault in Eastern Hebei W. Zhang, Y.H. Liu, J. Tong and W.P. Zhu	5387
Spatial and Temporal Change Analysis of Landscape Pattern of the Ebinur Lake Wetland N. Kai, T.T. Huang, S.M. Ma, X. Huang and R.R. Dong	5391
Construction Waste Recycling Research from the Perspective of Ecological Industrial Engineering	5205
L. Zhou, Y. Zhao and H.Y. Yin	5395
Summary of Study on Technology to Soil Sulfur Pollution Remediation K. Yu, F.Z. Zhang, Y.H. Bo and J. Liu Property of the Proof sixting Franciscount of Lucy of a Tailing One	5399
Research on the Beneficiation Experiment of Iron of a Tailing Ore W.L. Yang, H.X. Dai and H.J. Wang	5403
Study on Tissue Culture of Sweet Broad Pea H.F. Chi	5407
Annual Precipitation Time Series Analysis of Poyang Lake X.Y. Zhao, X.B. Song, Y.F. Yang and L. Bao	5411
Effect of Low-Voltage Static Electric Field on Growth of <i>Bacillus sp.</i> G.J. Yang, Y. Wang and X.Y. Zheng	5415
Research on Waste Materials with Decentralized White Spirit Wastewater Pretreatment by Fe-C Micro-Electrolysis J.X. Fu, H.M. Li, P.F. Yu and K. Zhao	5419
Model Based Evaluation of the Effect of Redox Mediator Concentrations on Microbial Fuel	0.17
Cell Performance Q. Liu, D. Hu, Y.L. Tang and J. Yu	5423
A Green Enriching Process of Mn from Low Grade Ore of Manganese Carbonate D. Sun, M.L. Li, C.H. Li, R. Cui and X.Y. Zheng	5427
Removal of Methylene Blue from Aqueous Solution by Manganese Oxide Nano-Sheets L. Peng	5431
Effect of Polysaccharide from Tricholoma Matsutake on TNF-α and IL-2 T. Li, M. Zhu, M.Y. Zhai, Y. Shen, G. Lv and X. Sun	5435
Progress of Cassiterite Sulfide Ore Beneficiation W.L. Yang, H.X. Dai and H.J. Wang	5439
Research on Mineral Processing Technology of Fluorite in Shandong P.X. Zhang, X.L. Zhou, C.C. Shang Guan and X. Bai	5443
Recovering Iron from Red Mud with High Gradient Magnetic Separator P.X. Zhang, X.L. Zhou, C.C. Shang Guan and X. Bai	5447
Research on the Magnetizing Roasting and Magnetic Separation of Blast Sludge X. Bai, S.M. Wen, S.J. Bai, C. Lv and P.X. Zhang	5451

Experimental Study of Sichuan Lithium Polymetallic Ore X.K. Wang, X. Tong and Y.D. Gao	5455
Study on the Impact of the Evolution of Lamaxigou Watershed Geomorphology on Project Y. Song	5459
Altitudinal Gradient May Shadow the Effects of Altitudinal Range on Species Diversity M. Li and J.M. Feng	5464
On the Impact of Climate Change on Regional Tourism Activities J.B. He and Z. Wang	5471
Chapter 10: Advanced Information and Innovative Technologies for Management, Logistics, Economics, Marketing, Education, Assessment	
Analysis on Adverse Selection in the C2C Electronic Commerce Model N.N. Zhang and Q.T. Deng	5477
Study on the Mode of Physical Distance Education Based on Network Environment Y.H. Qiu, L. Li and J. Sun	5481
Comprehensive Evaluation on Products Logistics Quality Traceability System H. Li, S.W. Ji and S. Zhang	5485
Research on the Value of Traceable Information Sharing N. Zhang, S.W. Ji and Z. Yuan	5489
Research on the Coordination Mechanism of the Products Double Channel Supply Chain $Y.S.\ Wu,\ S.W.\ Ji$ and $Y.H.\ You$	5494
A Study on Middle-Income Population Measurement Model and Methods T.J. Leng and T. Xiang	5498
The Reputation System Based on Auctions M.F. Zeng and S.Z. Yu	5505
Design and Implementation of Listening Learning System for College English on the Mobile Platform	5511
X.Y. Liu and J. Shen Study on Simulation of Evacuation Behavior to a Crowd in Public Buildings	5511
Y.M. Tian Comprehensive Evaluation Model of the Generating Performance of Multi-Type Units	5515
Based on Integrated Empowerment Theory and Ideal Matter Element Extension Method H.W. Guo, C. Qin, W. Xie, L.W. Ju and Z.F. Tan	5519
The Research and Management Strategies of Supply Chain Risks R. Ding	5523
The Analysis of Value of Travel Time of Students in Guangzhou High Education Center F.F. He	5528
Comprehensive Decision-Making Model for the Evaluation of Sustainable Products C.C. Zhou, X.F. Zhao, C.Y. Deng, L. Liu, Z.H. Dong and G.F. Yin	5532
Prediction of Stock Trend Based on Deep Belief Networks Z.Y. Xu, L.N. Tang and C.P. Tian	5538
A Trustworthy Sort Method for Shopping Customer Reviews Based on Correlation Degree with Product Features	
C.L. Ding, G.S. Zeng, W. Wang and T.T. Huang The Training Simulation System for a Kind of Complex Equipment	5542
G. Hong, W.B. Bai and J.W. Hu The Design of a Network Platform for Teaching Aids in Universities	5548
X.Y. Liu and J. Shen	5552
Dynamic Optimum Method of Control Charts for Small Batch Manufacturing Based on Stochastic Weighted Theory S.M. Teng, Z. Kang, Y.Y. Wang, H.Y. Shao and C.P. Zhang	5556
An Analysis of Influencing Factors Relating to Population Aging in China Based on SPSS Z.H. He and Y.D. Sun	5561
The Evaluation of China's Real Estate Company's Operating Efficiency by DEA	
X.Y. Xiao	5565

Research on Comparison System of Domestic and Foreign Standards M. Li, Z.Q. Feng, W. Li and B. Liu	5570
On Chinese E-Government Development in Big Data Era Y. Lou, G.H. Zhan, D.L. Zhang, Z.H. Xia and B.F. Liu	5575
Statistical Analysis of Hainan Farmer Household Consumption Structure Based on Factor	
Analysis M.S. Zhu, J.H. Zhang, S.W. Wang, J.Z. Wu, C. Shen and X.Y. Zhou	5580
Exploration of O2O Mode in the Retail Industry H.L. Pan, H.H. He and S. Wang	5586
Construction of New English Teaching Model under Network Environment A. Wang and X.Q. Zhang	5590
Application and Composition of Virtual Reality in Teaching J.G. Yuan and Z.G. Li	5594
Discussion on Collaborative Learning Model under Network Environment Y. Luo and X.Q. Zhang	5598
Study on Model and Strategy of Promoting the Professional Development of Teachers under the Network Environment L.H. Huang and B. Gui	5602
Research on Planning and Design of HIFA's New Campus	
H. Jin and R. Zheng	5606
Research on Evaluation and Analysis Model of Business English Teaching Based on Fuzzy Comprehensive Judgment C.H. Mao	5611
The Method on Engineering Risk Subject Based on Information Technology	0011
J.H. Tang and Q.H. Wang	5615
Risk Analysis and Prevention from BT International Engineering Project J.S. Wang, J.H. Tang and H. Wang	5619
Risk Management and Control from the BT Project of Government J.S. Wang, J.H. Tang and H. Wang	5623
Residents Stepped Increasing Price Regulation Model Design L.Y. Zhu, Z. Zhao, J.J. Shi and X.F. Yan	5627
Research and Prospect of Educational Technology in China J. Wei, J.X. Pan and J. Zhi	5632
Satisfaction Survey of Local Financial University Services Students S.X. Guo, J.N. Guo and Y. Sun	5636
The Research of Micro-Blogging Marketing Based on Six Degrees of Separation K. Shao, Q. Wang and K. Wang	5640
Study on the Competence Factors of Clothing Store Online Based on Website K. Shao, H. Xu and K. Wang	5644
The Collective Learning Model and Competitiveness of Industrial Clusters Y. Cai and S.H. Li	5648
Simulation Analysis of Optimized Construction Project Scheduling Model Q. An	5652
The Education and Study of Electronic Data L. Tang	5655
Research on Labour Quota in Redried Enterprise Based on System Dynamics D.B. Huang and P.P. Zhu	5659
CREAM-Based Human Reliability Analysis for Space Launch Day C. Shang, X.H. Ma and J.P. Chen	5664
Research on the Performance Evaluation Method for Virtual Training System of Anti-Tank Missile	
M.C. Zhong, C. Li and H. Li	5668
Analysis of the Association for Shanghai Composite Index and Stock Index Futures R.Z. Wang	5672
Studies on Risk Level Assessment of Barrier Lake Based on BPANN T. Sun, J. Liang, F.X. Chai, J. He and J. Lin	5676
Intelligent Logistics Decision System Based on Economic Benefit J.X. Wu	5681

Design Analysis on Network Recording and Broadcasting System in University Class Z.G. Zhang, X.C. Sun and P. Geng	5685
Design and Practice of Computer Fundamental Course Based on the Blended Learning L. Wang	5690
Research of Basic Computer Course Based on Computational Thinking L. Wang	5695
Research on Simulation Optimization for Supply Chain Management of Manufacturing Enterprises L.F. Zhang	5699
The Study of Influencing Factors of the Online Banking Information Security Products Service Quality T. Lei and Y. Wang	5703
Cloud Computing Application in Medical Education Y.L. Huang, R.Q. Liu, X.G. Ma and X.X. Yin	5710
"E-Learning" Thinking and Application of Teaching Mode in Colleges and Universities B.Y. Li and S. Nie	5714
Development of Logistics Tracking System Based on RFID, GPS, GPRS D.W. Xu, L.L. Deng and S. Ren	5717
Research on the Bank's Credit Decision Making Based on the Exploration Data Analysis G.M. Gong and J.Y. Huang	5721
Research on the Multi-Channel Collaborative Strategy in E-Commerce Environment Z.P. Xu	5725
Research of Branded Apparel Collaborative Design Based on Product Platform C.Y. Zhang	5730
Research on Smartphone Application Malicious Behavior Evaluation Using Fuzzy Analytical Hierarchy Process Y.H. Wu and D.P. Li	5733
Evaluation System Design of Emergency Management System Based on Fuzzy Comprehensive Evaluation H.F. Hou, L.J. Wang, H.Y. Wang and B. Yin	5737
Analysis of Customer Behavior in Automatic Investment Plan Based on Decision Tree L. Huo, B. Jiang and Y.X. Liu	5741
Blended Training System Design Based on Moodle Platform J.G. Yuan, Z.G. Li and W.T. Zhang	5745
Evaluation on Architecture Engineering Quality Based on Set Pair Analysis Method J. Zhao and J. Zhao	5749
The Application of Computer Aided Technology in the Sport Training (CAS) C. Lai	5753
Research on Application of "Flipped Class" Model in Teacher Education D.D. Wei and L.X. Qiu	5756
Analysis of the Current Situation and Countermeasures of Higher School Recycling Logistics	
X.J. Luan Personalized Resources Recommendation System Design for Teachers Training	5761
D.D. Wei and L.X. Qiu Development of Automotive Marketing Innovation Model	5765
T.P. Yan Formative Assessments in Junior High School English Class Based on Multimedia-Assisted	5769
Language Teaching J.H. Liu, J. Zhang and L. Jing	5773
A Bibliometric Analysis of Electronic Commerce Research from 1996 to 2012 Z.P. Hou and Y.Y. Li	5777
Classification and Operation Mechanisms of Open Source Design Community X.D. Zhang, C.J. Gong, Y.Z. Li and D.F. Zhao	5781
Applicability Research on BOT Financing Mode in Our Domestic Stadium Construction Z. Bai and J. Zhang	5787
Research on Socialization Problems of University Stadium J.G. Li and G. Lei	5791

Research on Current Management Status and Countermeasures of Public Stadium Q. Zhang and G. Lei	5795
Analysis of Characteristics and the Structure of the College Students' Entrepreneurial Quality	5700
Y. Li Path Analysis of Industry Associations to Promote Industrial Upgrading	5799
J.F. Huang and B.Y. Liu	5803
Research on Emergency Management Methods of Incident Contingency in City Administration X.C. Lou and X. Yu	5809
Application of Computer-Simulation-Aided Architecture in Environment Design with	3007
Chinese Elements J. Hu	5813
Research on Equipment Support Force Prensent Situation and Countermeasure J. Wang, W.S. Li, L.C. Li and P. Wang	5817
Application of Electronic Simulation Technology in Electrical Engineering Practice Teaching L.X. Mei	5821
Research on the Interest Rate Risk Management of Commercial Bank Based on F-W	3021
Duration Convexity Model F. Liu and P. Zou	5825
Study on Modeling for Choice of the Best Tourism Based on Analytic Hierarchy Process J.R. Wang, M.T. Cui and H. Yang	5828
Study on Modeling and Improving on the Production and Service Operations Management of Enterprise	
J.R. Wang, L.P. Cai, Y. Jiang and G.Z. Cheng	5832
Research on Travel Path Planning Based on Group Related Mapping L.N. Tan	5836
Personal Credit Evaluation System Based on Decision Tree L.N. Tan and H.L. Wu	5840
Evaluation Criterion of Hybrid Assembly Production Sequencing Management F. Zhou	5844
Dynamic Mechanism of Effect Factors for Railway Passenger Volume C. Wang	5848
The Application of Analytic Hierarchy Process in Delimiting Congestion Charging Area Y.Y. Rong	5853
Analysis of Influence Factors of Comprehensive Passenger Transport Hub Parking Pricing D.D. Wang, C.X. Ji and L. Xu	5857
Improvement of Generalized Cost and its Application in Forecasting the Distribution Ratios of Passenger Flows	
J. Wang	5860
Research on the Choice of District Resolves Solution of Chinese Railway Reform and Restructuring Z. Hui	5864
The Study on Mineral Resources Crisis and Industrial Economic Development Based on Information Technology	
Y.Z. Liu and B. Zhang	5868
The Problems and Solutions of Strategic Brand Management K. Zhang	5872
Evaluation of Graduated Student's Ability Based on a Random Sample Investigation Based on Information Technology M. Zhang	5876
Analysis on the Effecting Factors of Man-Machine-Environment System in Production	
Logistics System S.H. Zhang and B.J. Chen	5880
Evaluating the Relationship between Economic Growth and Environmental Pollution R.L. Zhang and F. Yao	5884

A Fuzzy Credibility Constrained Programming Approach for Agricultural Water Resources Management	
X.M. Li, L. He, X.S. Song and H.W. Lu	5889
Carry out the Green Brand Construction: A Case Study H. Xiao	5893
Empirical Analysis on Relationship between Urbanization Level and Employment Rate Based on VAR Model	5005
X.P. Guo and H.M. Wei	5897
Analyze Environmental NGOs' Plight and Countermeasures in the Public Interest Litigation Z. Chen	5901
Impact of Traditional Chinese Culture in Product Design to Using Experience M.H. Li and X. Liu	5904
Empirical Research on Corelation between Energy Resources Constraints and Economic Growth and the Shift of Economic Development Mode K. Wang	5908
Researches on the Construction in the Multi-Modal Perspective	3700
Z.R. Liu	5913
Perspectives on Organizational Learning and Learning Organization Z.R. Liu	5917
Study on the Improvement of Training Quality in Undergraduates' Graduation Design Work	
D. Guo, C.Y. Zheng, Y.T. Jiang and H.L. Zhao	5921
Researches on the Teaching Model Experiment of English Listening Based on Schema Theory Z.R. Liu	5925
Comparative Study on Eco Tourism Development Potential between the Yellow River Delta	3723
and the Nansi Lake Wetland Nature Reserve S.Q. Tian and W. Zhang	5929
Research on Moderating Effects of Job Satisfaction in Employee Turnover Intention of Insurance Enterprise	5024
W.K. Chen and M.Y. Guo Procedured Educational Communication Process Made Possel on A.P. Tookuslam	5934
Preschool Educational Communication Process Mode Based on AR Technology F. Kang, C.C. Tang and X.P. Xi	5939
Study on the Influence of Key Factors in Sichuan Province Energy Conservation that Based on the Fixed Effect Model C. Chen and X.Q. He	5943
A Study on Safety Culture Construction for Coal Mine H.J. Ji	5949
Chinese Provinces Safety Production Situation Analysis and Prediction Y. He, L.L. Wang and S.B. Qin	5953
On Combination of Multi-Media Technology and Language Learning Z. Wang and J.B. He	5958
Agricultural Water Conservation Cost Control Mechanism of the Pre-Coastal City Based on Design Innovation P.P. Zhao and F.R. Meng	5962
Under the Perspective of Low Carbon the New Energy Automobile Industry Development and Research Based on Collaborative Innovation – A Case Study in Beijing-Tianjin-Hebei	3702
Area S. Jie, H.J. Gong and W.F. Liu	5966
Research on the Development of Wisdom Logistics of Regional Economical Integration of Beijing, Tianjin and Hebei Base on Low Carbon Economy W.F. Liu, H.J. Gong and S. Jie	5970
Research on the Traveling Behavior and the Market Development Strategies of Senior Tourists in Huaian City	
Y. Chen	5974
Reform and Practice of Teaching Model of Computer Programming Courses L.Y. Cao, H.L. Yu, G.F. Chen and T.T. Yang	5978

A Hierarchical Detriment Evaluation Method of Security Incidents Based on Service Correlation	
Y.L. Lv, S. Xiang, Y.L. Li and C.H. Xia	5981
Empirical Analysis of Relationship between Information Consumption and Economic Growth Y.Q. Hu	5986
On Strategy of Sustainable Development of Ancient Village Tourism Resources J.B. He and Z. Wang	5991
Research of Food Safety Supervision System in China W. Fu	5995
The Analysis of Life Cycle Quality Management in Real Estate Development H.S. Ma and F. Gao	5999
Establishment and Improvement of New Theory on Long-Term Mechanism of Environmental Protection in Rural China E.H. Liu	6003
The Analysis of Constructing Sports Brand in the Vision of Building Powerful Sports Nation	.
X.D. Cao	6007
The Application of Detrended Fluctuation Analysis in Rice Blast in the Early Warning X. Zhao, Y.H. Huang Fu, Q. Sun and L.J. Yu	6011
The Current Situation and Prospect of Sports Service Industry in China under New Situations J. Zhang	6015
Research on the Teaching Mode - Autonomous Learning of College English through the Network	
L. Xiong	6019
Research on Computer Aided English Teaching Mode Y. Xiao	6023
Research on Relevance between Minority College Students' Satisfaction of Outdoor Sports and their Sports Performance Based on the SEM Mathematical Model S.S. Li	6027
The Innovation of the College Sports Specialty Tennis Teaching System Based on the Theory of Multivariate Intelligences J.Q. Jiang	6031
Research on Practice and Development of Finance and Taxation Based on the Intergenerational Distribution Model	
L.P. Lu Research on New Sports Teaching Mode Based on Virtual Reality Technique J. Shang	6035
Analysis of the Tourism Image Orientation about the Interaction between the Release of Tourism Destination Information and Tourists Perception	0037
X.Q. Ye	6043
The Application of Virtual Sports Studio in Sports Colleges J.B. Zhao, H.J. Ji and B.L. Liao	6047
Multiple Levels Analysis of Group EI Infecting Employee EI and Performance Z.J. Mei, Q.H. Ma and X.X. Shen	6051
The Design and Implementation of Enterprise Training Management System Based on .NET S.X. Chen	6056
Empirical Study on the Capital Composition Impact Factors of the Listed Company in the	0030
Growth Enterprise Market in China X. Zhong, X.Z. Song and R.R. Fu	6060
Optimal Allocation of Risk for Portfolios	
H.W. Liu and C.B. Xiao	6067
Risk Measure and Management for Pension Funds Assets C.B. Xiao and H.W. Liu	6071
Discussion on the Construction of Financial Accounting Theory Frame Y. Guo	6075

The Research on English Autonomous Learning Monitoring Theory and Application in the Network Environment X.H. Chen	6079
The Influence of Corporate Culture on the Core Competitiveness in China's Small and Medium-Sized Commercial Banks F.G. Yao and T.H. Wang	6083
Evaluation Model of College English Teaching Based on the Theory of Cloud Gravity Center	6087
L.Q. Yang, L. He and G. Li Tourism Supply Chain Coordination through Revenue Sharing Contract T.L. Zhang and Y. Wang	6093
The Application of System Dynamics in Urban Master Planning Y.C. Dai and Y.F. Xu	6097
The Evaluation and Selection of Upstream Enterprises in Supply Chain L.L. Dong	6101
The Study on the Model of Vendor Management Inventory in Supply Chain L.L. Dong	6105
A Study of Knowledge Construction and Mechanism of Cognitive Processing of Tibetan- Chinese Bilingual Pre-Service Teachers'	<i>(</i> 100
J.L. Qiu and J. Li The Benefit Analysis of Applications of Alternative Energy in Small Public Transportation	6109
System B.J. Li, D.X. Niu, F.Y. Hua, J.P. Qiu and G.R. Zhu	6114
The Change in the Marketing Strategy of Commercial Retail Enterprises under B2B Model X. Bo	6118
On Optimization of Non-Intelligence Factors in College English Teaching in Computer-Aided Language Learning Environments J. Wang	6124
Discussion on Noise Pollution and its Control Measures A. Wang and X.Q. Zhang	6128
Discussion on the Role of College Teachers under the Network Environment Y. Luo and X.Q. Zhang	6132
Discussion on the Construction of the Network Teaching Platform L.H. Huang and B. Gui	6136
The Research of City Safety Evaluation Method Y. Wang	6140
Analysis of Factors Influencing Public Participation in Building Energy Efficiency Awareness - Based on the Empirical Investigation of Xi'an Public	
L.L. He and C. Zhang Home Appliance Retailing Services Marketing Strategy Based on Information Technology	6145
C.X. Li, X.C. Wei and X.Y. Zhang	6149
The Application of Information Technology in Modern English D.P. Xu, Y. Li, W.H. Zhao and G.Y. Cui	6153
Research on Intelligent ERP System Based on Multi-Agent H.W. Lv	6157
Cotton Quality and Safety Traceability System Implementation Method B.X. Ma, Q.G. Chen, J.C. Chen, L. Xu, J. Wang and J. Xu	6161
Research on Reliability of Command Business Composite Services in Joint Command Information System	(1((
J.J. Shen, G. Chen and J.P. Cai Optimization Decision Promotion Model of Supply Chain Networks with Logistics Speed	6166
L. Liao, Y.H. Huang and C.J. Zhao Supply Chain Logistics Management Based on Grid Optimization Information Sharing	6170
Technology L. Yang	6174
Research on Management of Emergency Material Based on Information Technology X.L. Zhou	6178

The Application of CALL Mode Based on Information Technology H. Liu	6181
Research and Application of Interactive Teaching Software on iOS Platform Based on Computational Thinking	
Z.H. Wang	6185
Applied Research on Logistics System Efficiency Evaluation Based on Fuzzy DEA Model B. He	6189
Pharmaceutical Supply Chain Management Research Based on RFID Y. Jiang	6192
Research on the Application and Improvement of Supply Chain Network Model in the Automobile Industry Y.Q. Deng, J.Q. Liu and W.J. Jia	6196
Analysis and Design of Logistics Warehousing Management Information System Based on RFID	
D.W. Xu, L.P. Yang and S. Ren	6200
Development and Application of Economic Management Information System of Enterprises Based on VC++ Technology X. Yang	6204
Research on Learning in a Digitalized Environment L.K. Hao	6208
Adaptive Interface Design for Process Management System X.S. Ma and R. Zheng	6214
The Study on Partners Selection Model on the Trust Network Y. Hui	6218
The Design and Implementation of Enterprise Management System Based on ERP M.T. Wang	6221
Study on the Role of Computer Internet Information Resources A.Z. Miao	6225
On the Analysis of Web-Based Intelligent English Self-Learning System M. Wang, X.M. Zheng, Y.Q. Xie and S.P. Yu	6229
Development and Implementation of Ship Maintenance Management Spot Inspection Information System L. Feng	6233
Study on Application of Component-Based Project Management System J. Yu, H. Zhang and N. Yang	6238
Data Analysis and Assessment of Tourism Chains Based on Information System M. Xiao, A. An and Y.S. Wu	6242
Analysis about Accounting Computerization and Network Y.L. Rong	6246
Research on the Information Management System of Subway Construction J.H. Tang	6250
Research of Mobile System Based on J2ME and Web H.Y. Gong, W.H. Zhao and Y. Li	6254
Power Communication Resources Data Manage Strategy Based on Information Lifecycle Management	
L. Sheng, Y. Yang, S.W. Wang and W.Y. Li	6258
An Empirical Study on the Characteristics of Complex Network of Firms' Innovation Network-Taking Taiyuan Stainless Steel Firms as an Example B. Qiao, L. Ji and X.X. Wang	6261
Research on the Application of Power Enterprises' SCMM Model Based on Sets-Valued Y.Q. Deng, H.S. Wang and J.Q. Liu	6265
Assessment and Response of UAV Development F.J. Wei, P.P. Xie and G.L. Li	6269
Life Cycle Costing Decision Analysis for Electric Multiple Units Based on Reliability K.X. Zhang, J.W. Yao and Z.P. Zhao	6274
The Research on the Construction of Experience Accumulating and Sharing Platform for Vocational Colleges W. Cui	6281

A Study on Service Standards and Campus Sign System in Colleges and Universities X.C. Liu and S. Tang	6285
A Study on the Effects of Regulatory Fit and Framing L. Chen	6289
Corpus Linguistics-Based Quantitative Analysis of Grammaticalization C.H. Chen	6293
Research on Risk Control of Sports Venues X.Y. Yang	6297
Study of Higher Institutes Platform Based on Cloud Computing X.C. Feng	6301
The Simulation Based on Vitual Reality Technique Y.N. Gong	6305
Application of New Type DCS Simulation Software Y. Chen	6309
Application of the Deviate Method of Minimum Subordinative Degree on the Selection of Outstanding Graduates	
J. Si, H.Z. Yu and X.L. Chai	6313
Application and Prospect of Cloud Computing Technology in the Network of Fitness H.J. Wu, H.Y. Zhao, T. Ma and Y.Y. Du	6317
Study on Contaminated Site Risk Classification Based on the Set Theory D. Wu, Y.Y. Chen and J.J. Li	6321
Setting Conditions of Long and Short Routing Mode of Rail Transit C. Yue	6327
The Research on the Impact of High-Speed Railway S.Y. Hua	6331
Discussing the Characteristics of MOOCs X.F. Li, J. Li, J.L. Qiu and S.W. Sun	6335
Research of Oral Test Reliability and Validity of College English Based on the Computer	
Technology H. Li	6339
LCA of the Clean Air Conditioning System in Pharmaceutical Industry X. Li, R.Y. Jia and J.J. Hou	6343
Application Research of Synthetic Decision Support for System Water Resources Dispatch and Allocation	
Y. Li, Z.J. Zhu and S.Y. Li	6347
The Drill System Respond to Subway Emergency Based on Scenario Analysis H. Zhen and G.Q. Cai	6351
Study on Intelligent Maintenance Service Mechanism and Realization S.D. Yu, P. Wu, Y. Ding and F. Gao	6355