Manufacturing Technology, Electronics, Computer and Information Technology Applications

Selected, peer reviewed papers from the 2014 International Conference on Manufacturing Technology and Electronics Applications (ICMTEA 2014), November 8-9, 2014, Taiyuan, Shanxi, China

von Zhang Lin

1. Auflage

Trans Tech Publications 2014

Verlag C.H. Beck im Internet: www.beck.de ISBN 978 3 03835 328 7

Table of Contents

Preface

Chapter 1: Researching and Designing in Mechanical Engineering, Mechatronics, Automation and Control

Research on Transition Zones of Spherical Surface Parts in 3D Rolling Process D.M. Wang, M.Z. Li and Z.Y. Cai	3
Calculation and Analysis of the Interference Amount in Gear Slicing X.Q. Li, J. Li, P. Wang and Y. Zou	7
Parameter Design of Tooth Profile for Internal Cycloid Gear Pump with Multi-Teeth Difference	
G.L. Yang, X.L. Zhang, J.Y. Fan, L.H. Zhu, Q. Chen and W.Q. Li	13
Analysis on the Architecture of the General Aviation Operation Control System Software L.Q. Li	18
Application of SCM and PLC Technology in CNC Machine Tool C.B. Zhao	22
Design of Air-Conditioning System and Elevator System Based on Intelligent Control H.K. Pan	26
Study on the Auto Control of Shipment Machine B.F. Qian, X.P. Ma and S.J. Xin	29
Prediction of the Total Sound Level of the Annular Combustor Noise of Aircraft Engine Based on SVR	
L.J. Zhu, Y.C. Dong, J.G. Yuan, L.H. Yi and G.H. Fan	33
Analyse and Research on Motion Control for Helical CT Scanner G. Yuan, Y. Zhang, P. Xu and Z.Y. Wu	37
Study on Planetary Reduction Gears Motion Simulation and Profile Correction Based on	
W.G. Cai, L. Li and M.Z. Li	44
Research on Designing and Organizing Menu System for Shipborne Command and Control System S.L. Zhang, Y.T. Wang and F. Zhang	48
The Innovation and Revolution Influenced by 3D Printing Technology in the Digital Era	40
W.J. Li	52
Study on Development and Testing of Vehicle CAN Network Platform Based on CANoe Q.J. Cai, Y. Xu, J.K. Fu and K. Chen	56
Algorithm and Implementation of Smith Predictive Control Z.D. Tian	60
Intelligent Greenhouse Control System Design Based on RF Technology Research G. Dong	64
Influence of Cutout Position on Buckling of Large-Scale Thin-Walled Cylindrical Shell of Desulphurizing Tower with Welding Induced Imperfection under Wind Loading Q. Li and D.F. Wang	68
Research Precision CNC Machine Error Analysis Hot Weights	00
H. Sun, H. Sun and Y. Ding	73
Hydraulic Support Tail Beam Natural Characteristics Analysis for Coal and Rock Identification X.Y. Cong, Z.C. Wang and X.D. Ma	77
Effect of Scratch Depths on Fatigue Properties of PMMA for Aircraft Canopies X.H. Shi and M.J. Shan	81
Sliding-Mode Position Control of PMSLM Based on Grey Forecasting Model H. Sun, Y.H. Dai and C.S. Tang	85
Back-Stepping Control of SPMSM Drive System H. Sun, J.Q. Gong and Y.C. Li	89

Dynamic Analysis of Face-Gear Drive with and without Pinion Tip Relief Z.H. Sheng, J.Y. Tang, S.Y. Chen and Z.H. Hu	93
Research on Indoor Watering System with Intelligent Automatic Control T. Wang	97
Application of Laplace Formula in Additional Pressure Deduction of Curved Surface S.H. Guo and H. Guo	102
Achieve Positioning of Embedded NLOS Mobile Robot G.H. Yang, J.C. Ma, Y.K. Gao and B.H. Fu	105
LES of Airflow Distribution for CRH ₂ Electric Motor Train Units Z.Z. Wang, Z.H. Qi and H. Tian	109
Inverse Design and Numerical Control Processing of the Little Bear Punch G. Zheng, C. Wang and B. Huang	113
Locomotive Bogie Wheelset Assembly Jidoka Q. Cheng, L. Sun, Z.Q. Ma, P. Zhang, X.L. Sun and J. Wei	117
Research on the Application of Proportional Controller Based on Phase Plane Division in the Tension Control System of Coating Device L. Zhang, S.Y. Tan and W.L. Gu	121
Multi Brushless DC Motor Control System Based on CAN P. Zhu, Y.Z. Tan and Y.Q. Xu	126
The Study on the Wind Turbine under Wind Disturbance Based on Vector Control and Blade Pitch Control H.L. Wang, J. Li and H.O. Yan	130
Research and Construction of Automation Comprehensive Experimental Platform H. Sun and H.L. Liu	134
Advanced Scheme of Auxiliary Lowering Device for Deep-Sea Ground Buoy Y.Z. Wang, Y.F. Mao, Y. Zheng, Z. Wang and J. Zhang	138
Simulation Calculation of Friction Factor of the End Face for Mechanical Seals Based on Fractal Theory L. Wei, P.G. Zhang and G.F. Fang	142
Experimental Study of Explosion Pressure Characteristics of Methane under High Temperature Conditions R.Z. Li, R.J. Si and Y.S. Zhang	148
Actual Thermal Condition in Chinese Textile Workshop R.L. Yang and Z.L. Xu	153
Active Disturbance Rejection Control for Improved Depth Model of AUV J.J. Liu, H. Chen, L. Wang and M.Y. Yu	157
A Finite Element Analysis of the Rectangle Spline Broach Z. Tian and B.C. Li	163
A Control Method for Load Balance between Upper and Lower Roll of Four-High Hot Rolling Mill	
L.P. Fan and Y. Liu Analysis of the Wheel Loader Hydraulic Hybrid System Based on Braking Energy Recovery	167
H.X. Han and X.L. Cao Study on Vehicular LNG Tank	171
R. Li, T. Li and J.Y. Zhang Structural Design of Machine Tool Bed Based on Dynamic ANSYS	175
L. Wang Research and Realization on Sensorless Brushless DC Motor Control System	179
Y.H. Liang, H.B. Huang, D.L. Cheng and J.P. Lan Design and Study on Hollow Blow Molding Extrusion System	183
W.M. Li, G.L. Lu, X.F. Yao and J. Huang	187
Analysis and Research on the Mechanics of Human Body Exoskeleton Movement Y.L. Hu, D. Liu and J.F. Liu	191
Dynamic Simulation Research Based on AMESim Load-Sensing Pump J. Zhang, T.Z. Zhang and L.J. Cheng	195
An Initial Positioning Method on Magnetic Rotary Encoder Applying to PMSM L. Liu, C.H. Yuan, Q.L. Zeng and J.M. Wang	201

Condition Assessment of Regenerative Heater Based on Fuzzy Comprehensive Evaluation W.D. Zheng and P.H. Wang	206
A New Method of Strengthening Longitudinal Static Stability of Airship in Ascent H.D. Xiao, P.P. Mi, L.B. Liu and S. Cao	212
The Study of Level Control Strategy for Supercharged Boiler Drum Based on Fuzzy Control	
P. Wang, Q.D. Zhu, H.T. Xie and G.L. Zhang	216
Casing Wear Influence Factors and Range Analysis X.H. Wang, S.B. Wei, X.Z. Wang, Y. Yu and Y.H. Dou	220
Study of Resistance to Wear of P110 Casing Down-Hole in Water Based Mud G.L. Li, H.X. Mi, X.Z. Wang, Y. Yu and Y.H. Dou	224
The Transitional Simulation of Self-Propelled Winch System by the AMESim J.T. Yue, H. Pu and X.J. Wei	228
Modal Analysis of Abrasive Tool with Heat Pipe T. Sun, X.Q. Zhou, Z. Chen and F. Li	232
Research on Weld Defects Simulation and Performance Assessment of Solid-Web Type Telescopic Jib	
G.N. Xu and K. Hao	236
Reliability Design of Crane Lattice Jib Based on Response Surface Method G.N. Xu, J. Liu and G. Zhang	243
Finite Element Analysis on Coupled Vehicle-Bridge Vibration Based on the Sprung Mass Model	
J.Y. Zheng, Y.H. Chen and J.P. Wang	249
Additional Throttle Control of Small Gas Internal Combustion Generator Based on Extent State Observer and Terminal Sliding Mode Control Z. Bai, Z.J. Kang, Y.S. Sun and R.Y. Liu	255
Hybrid Method Based on Artificial Potential Field and Differential Game Theory for the UAV Path Planing	2.00
F. Tian, J.F. Zou and T. Zhang Noise Influence of High-Speed Train Based on Air Dynamics	260
Noise influence of fright-speed fram dased on Air Dynamics	
X.Q. Wang	265
X.Q. Wang Sensor Fault Diagnosis for an UAV Control System Based on a Strong Tracking Kalman Filter	
X.Q. Wang Sensor Fault Diagnosis for an UAV Control System Based on a Strong Tracking Kalman Filter F. Tian, J.Y. Zheng and T. Zhang	265270
X.Q. Wang Sensor Fault Diagnosis for an UAV Control System Based on a Strong Tracking Kalman Filter F. Tian, J.Y. Zheng and T. Zhang Drop Simulation Analysis of a Large Screen Mobile Phone H.J. Ma and Q. Gao	
X.Q. Wang Sensor Fault Diagnosis for an UAV Control System Based on a Strong Tracking Kalman Filter F. Tian, J.Y. Zheng and T. Zhang Drop Simulation Analysis of a Large Screen Mobile Phone	270
X.Q. Wang Sensor Fault Diagnosis for an UAV Control System Based on a Strong Tracking Kalman Filter F. Tian, J.Y. Zheng and T. Zhang Drop Simulation Analysis of a Large Screen Mobile Phone H.J. Ma and Q. Gao Effects of a Passive Dynamic Walker's Mechanical Parameters on Foot-Ground Clearance	270275
X.Q. Wang Sensor Fault Diagnosis for an UAV Control System Based on a Strong Tracking Kalman Filter F. Tian, J.Y. Zheng and T. Zhang Drop Simulation Analysis of a Large Screen Mobile Phone H.J. Ma and Q. Gao Effects of a Passive Dynamic Walker's Mechanical Parameters on Foot-Ground Clearance X.Y. Liu, X.Z. Zang and J. Zhao Design of High Precision Control for Flat Panel System Based on Free Pendulum H. Zhao and T. Hou Finite Element Analysis and Optimum Design for Pressure Vessel Based on ANSYS	270275279
X.Q. Wang Sensor Fault Diagnosis for an UAV Control System Based on a Strong Tracking Kalman Filter F. Tian, J.Y. Zheng and T. Zhang Drop Simulation Analysis of a Large Screen Mobile Phone H.J. Ma and Q. Gao Effects of a Passive Dynamic Walker's Mechanical Parameters on Foot-Ground Clearance X.Y. Liu, X.Z. Zang and J. Zhao Design of High Precision Control for Flat Panel System Based on Free Pendulum H. Zhao and T. Hou Finite Element Analysis and Optimum Design for Pressure Vessel Based on ANSYS Workbench W.J. Li, G.P. Liu, D.H. Li and T. Yu	270275279
X.Q. Wang Sensor Fault Diagnosis for an UAV Control System Based on a Strong Tracking Kalman Filter F. Tian, J.Y. Zheng and T. Zhang Drop Simulation Analysis of a Large Screen Mobile Phone H.J. Ma and Q. Gao Effects of a Passive Dynamic Walker's Mechanical Parameters on Foot-Ground Clearance X.Y. Liu, X.Z. Zang and J. Zhao Design of High Precision Control for Flat Panel System Based on Free Pendulum H. Zhao and T. Hou Finite Element Analysis and Optimum Design for Pressure Vessel Based on ANSYS Workbench W.J. Li, G.P. Liu, D.H. Li and T. Yu The Kinematic Analysis and Trajectory Planning Study of High-Speed SCARA Robot Handling Operation	270275279285290
X.Q. Wang Sensor Fault Diagnosis for an UAV Control System Based on a Strong Tracking Kalman Filter F. Tian, J.Y. Zheng and T. Zhang Drop Simulation Analysis of a Large Screen Mobile Phone H.J. Ma and Q. Gao Effects of a Passive Dynamic Walker's Mechanical Parameters on Foot-Ground Clearance X.Y. Liu, X.Z. Zang and J. Zhao Design of High Precision Control for Flat Panel System Based on Free Pendulum H. Zhao and T. Hou Finite Element Analysis and Optimum Design for Pressure Vessel Based on ANSYS Workbench W.J. Li, G.P. Liu, D.H. Li and T. Yu The Kinematic Analysis and Trajectory Planning Study of High-Speed SCARA Robot Handling Operation G.Q. Ma, Z.L. Yu, G.H. Cao, Y.B. Zheng and L. Liu Design for New Type Tobacco Sewing Machine Head	270275279285290294
X.Q. Wang Sensor Fault Diagnosis for an UAV Control System Based on a Strong Tracking Kalman Filter F. Tian, J.Y. Zheng and T. Zhang Drop Simulation Analysis of a Large Screen Mobile Phone H.J. Ma and Q. Gao Effects of a Passive Dynamic Walker's Mechanical Parameters on Foot-Ground Clearance X.Y. Liu, X.Z. Zang and J. Zhao Design of High Precision Control for Flat Panel System Based on Free Pendulum H. Zhao and T. Hou Finite Element Analysis and Optimum Design for Pressure Vessel Based on ANSYS Workbench W.J. Li, G.P. Liu, D.H. Li and T. Yu The Kinematic Analysis and Trajectory Planning Study of High-Speed SCARA Robot Handling Operation G.Q. Ma, Z.L. Yu, G.H. Cao, Y.B. Zheng and L. Liu Design for New Type Tobacco Sewing Machine Head L. Zhang, T.Y. Wang and H.B. Liu	270275279285290
Sensor Fault Diagnosis for an UAV Control System Based on a Strong Tracking Kalman Filter F. Tian, J.Y. Zheng and T. Zhang Drop Simulation Analysis of a Large Screen Mobile Phone H.J. Ma and Q. Gao Effects of a Passive Dynamic Walker's Mechanical Parameters on Foot-Ground Clearance X.Y. Liu, X.Z. Zang and J. Zhao Design of High Precision Control for Flat Panel System Based on Free Pendulum H. Zhao and T. Hou Finite Element Analysis and Optimum Design for Pressure Vessel Based on ANSYS Workbench W.J. Li, G.P. Liu, D.H. Li and T. Yu The Kinematic Analysis and Trajectory Planning Study of High-Speed SCARA Robot Handling Operation G.Q. Ma, Z.L. Yu, G.H. Cao, Y.B. Zheng and L. Liu Design for New Type Tobacco Sewing Machine Head L. Zhang, T.Y. Wang and H.B. Liu Simulation and Research of Dual Brush-Less DC Motor Synchronization Control System G.Y. Wang and X.X. Cheng	270275279285290294
Sensor Fault Diagnosis for an UAV Control System Based on a Strong Tracking Kalman Filter F. Tian, J.Y. Zheng and T. Zhang Drop Simulation Analysis of a Large Screen Mobile Phone H.J. Ma and Q. Gao Effects of a Passive Dynamic Walker's Mechanical Parameters on Foot-Ground Clearance X.Y. Liu, X.Z. Zang and J. Zhao Design of High Precision Control for Flat Panel System Based on Free Pendulum H. Zhao and T. Hou Finite Element Analysis and Optimum Design for Pressure Vessel Based on ANSYS Workbench W.J. Li, G.P. Liu, D.H. Li and T. Yu The Kinematic Analysis and Trajectory Planning Study of High-Speed SCARA Robot Handling Operation G.Q. Ma, Z.L. Yu, G.H. Cao, Y.B. Zheng and L. Liu Design for New Type Tobacco Sewing Machine Head L. Zhang, T.Y. Wang and H.B. Liu Simulation and Research of Dual Brush-Less DC Motor Synchronization Control System G.Y. Wang and X.X. Cheng The Method and Experimental Research on Seam Tracking and Dual-Beam Laser Welding for T-Type Welding Seam	 270 275 279 285 290 294 300
Sensor Fault Diagnosis for an UAV Control System Based on a Strong Tracking Kalman Filter F. Tian, J.Y. Zheng and T. Zhang Drop Simulation Analysis of a Large Screen Mobile Phone H.J. Ma and Q. Gao Effects of a Passive Dynamic Walker's Mechanical Parameters on Foot-Ground Clearance X.Y. Liu, X.Z. Zang and J. Zhao Design of High Precision Control for Flat Panel System Based on Free Pendulum H. Zhao and T. Hou Finite Element Analysis and Optimum Design for Pressure Vessel Based on ANSYS Workbench W.J. Li, G.P. Liu, D.H. Li and T. Yu The Kinematic Analysis and Trajectory Planning Study of High-Speed SCARA Robot Handling Operation G.Q. Ma, Z.L. Yu, G.H. Cao, Y.B. Zheng and L. Liu Design for New Type Tobacco Sewing Machine Head L. Zhang, T.Y. Wang and H.B. Liu Simulation and Research of Dual Brush-Less DC Motor Synchronization Control System G.Y. Wang and X.X. Cheng The Method and Experimental Research on Seam Tracking and Dual-Beam Laser Welding for T-Type Welding Seam P.J. Wang, X. Wang, L. Lin and Y. Wu Dynamic Analysis of Flapper/Nozzle Electrohydraulic Servovalve Considering the Influence	270 275 279 285 290 294 300 304
Sensor Fault Diagnosis for an UAV Control System Based on a Strong Tracking Kalman Filter F. Tian, J.Y. Zheng and T. Zhang Drop Simulation Analysis of a Large Screen Mobile Phone H.J. Ma and Q. Gao Effects of a Passive Dynamic Walker's Mechanical Parameters on Foot-Ground Clearance X.Y. Liu, X.Z. Zang and J. Zhao Design of High Precision Control for Flat Panel System Based on Free Pendulum H. Zhao and T. Hou Finite Element Analysis and Optimum Design for Pressure Vessel Based on ANSYS Workbench W.J. Li, G.P. Liu, D.H. Li and T. Yu The Kinematic Analysis and Trajectory Planning Study of High-Speed SCARA Robot Handling Operation G.Q. Ma, Z.L. Yu, G.H. Cao, Y.B. Zheng and L. Liu Design for New Type Tobacco Sewing Machine Head L. Zhang, T.Y. Wang and H.B. Liu Simulation and Research of Dual Brush-Less DC Motor Synchronization Control System G.Y. Wang and X.X. Cheng The Method and Experimental Research on Seam Tracking and Dual-Beam Laser Welding for T-Type Welding Seam P.J. Wang, X. Wang, L. Lin and Y. Wu	270 275 279 285 290 294 300 304
Sensor Fault Diagnosis for an UAV Control System Based on a Strong Tracking Kalman Filter F. Tian, J.Y. Zheng and T. Zhang Drop Simulation Analysis of a Large Screen Mobile Phone H.J. Ma and Q. Gao Effects of a Passive Dynamic Walker's Mechanical Parameters on Foot-Ground Clearance X.Y. Liu, X.Z. Zang and J. Zhao Design of High Precision Control for Flat Panel System Based on Free Pendulum H. Zhao and T. Hou Finite Element Analysis and Optimum Design for Pressure Vessel Based on ANSYS Workbench W.J. Li, G.P. Liu, D.H. Li and T. Yu The Kinematic Analysis and Trajectory Planning Study of High-Speed SCARA Robot Handling Operation G.Q. Ma, Z.L. Yu, G.H. Cao, Y.B. Zheng and L. Liu Design for New Type Tobacco Sewing Machine Head L. Zhang, T.Y. Wang and H.B. Liu Simulation and Research of Dual Brush-Less DC Motor Synchronization Control System G.Y. Wang and X.X. Cheng The Method and Experimental Research on Seam Tracking and Dual-Beam Laser Welding for T-Type Welding Seam P.J. Wang, X. Wang, L. Lin and Y. Wu Dynamic Analysis of Flapper/Nozzle Electrohydraulic Servovalve Considering the Influence of the First-Stage Parameters	270 275 279 285 290 294 300 304 309

Experimental Study of the Dynamic Properties of 2D Servo Valve with Different Pilot Structure	
W. Zhao and J. Ruan	326
Development of Braking Force Size Warning System against Rear End Collision W.M. Cheng, Z.K. Xiang and F.F. Xiang	331
Analysis and Experiment on the Response Characteristics of a Pneumatic Micro Actuator Based on TBC Model X.L. Liu and S.J. Li	336
Application of Fuzzy Control System in Heat Transfer Station J. Tian	345
Main Control System Design for Balanced Tension-Type Electronic Fence Z.J. Tang, P.L. Liu, Q. Luo and Z.F. Ye	349
Defects Cause Analysis Generated by Five-Axis NC Machine Tool and Optimization J.W. Fan, H.X. Yan, Y.H. Tang and Y. Song	353
Research on Modeling and Optimization Control of Heavy Truck Cab Active Suspension System	
G.H. Yan and S. Zhang	359
Studies on Intelligent Planning Technology of Forward Heuristic Robot Based on the Correlation of the Target Z.H. Wu, H. Yan, Y.M. Gao and H. Yin	363
Study on Disturbance Compensation for Ship-Borne Servo Control System D.X. Zhu, H.J. Xie and X.R. Wang	367
Slide - Mode Variable Structure Adaptive Control of Electro-Hydraulic Servo Systems	
Based on LuGre Friction Model R.J. Guo, S. Du and H.M. Yin	371
Design of Ship-Borne Antenna Servo Control System Based on ADRC D.X. Zhu, L.F. Sun and X.R. Wang	375
Effect of Welded Mechanical Heterogeneity on Fracture Parameters at the Crack Tip H. Xue, X.Q. Tao, W.B. Wang, Z.W. Wang, Y.R. Wang, Y.K. Gui, R. Guo and X.B. Li	378
Comparative Analysis of Stress of Two Typical Micro-Displacement Control Platform X.C. Tao and M. Shao	382
Development of Multilayer-Wrapped Cylinder of High Pressure Vessel J.Y. Tian and Y. Zhao	386
Research on Thermoelectric Energy Conversion System for Controller in Magnetic Bearing J. Wang, C. Huang and P.Y. Jiang	390
Study on the Resonance Amplitude of Bending-Torsion Coupling Vibration Z.H. Guan and W.J. Miao	394
Finite Element Analysis of Wind Turbine Lifting Platform Bridge Structure Y. Tang, Y.H. Wu, K. Zhang, J. Sun and E.W. Song	398
Hovering Control Based on Buoyancy Control Approach for Under-Actuated AUVs B.G. Liu and Y.L. Ye	402
Research on the Tension Effects on Automobile Damping Synchronous Belt Transmission System Damping and Dynamic Stiffness Y.C. Shi, Z.G. Li and D. Liu	407
The Research and Practice about the Large Parts's Large Amount of Interference Liquid Nitrogen Cold Loading Process Technology	107
S.Y. Wang, R.X. Sun and H. Zhou	411
Research on Calculation Method of Alternative Fuel Quantity for Natural Gas Bus X. Li, L. Liu and Z.X. Li	415
Design of Online Energy Assessment System for Pump Unit Y. Luo, H. Sun, J.X. Lu and Z.S. Yu	419
Study on the Treatment of Nonlinear Roll Damping in Hydrodynamic Calculation and Structural Analysis	
W. Sun, H.L. Ren and H. Li	423
Study on Thermal Stress Alleviating Technology of Diesel Exhaust Manifold Z.K. Li, W.Z. Zhang and L.Y. Song	428
Study on the Effect of Impact Velocity on Slamming Loads P.Y. H.L. Ren. H. Li and G.O. Feng	432

Design and Implementation of Electromagnetic Tracing Car C.G. Bi, W.T. Kong and Y.M. Lu	436
Finite Element Analysis of the Prestressed Composite Pipes	
Q.Y. Huang and X.Y. Zhang The Control of a Neural Complex Network	440
The Control of a Neural Complex Network F.D. Zhang	444
Investigation of Synchronization for a Fractional-Order Delayed System H.G. Dang, W.S. He and X.Y. Yang	447
Kinematics of Trailer Axle Steering Mechanism W. Zhao, J. Xiong, Y.Q. Zhao and Y. Song	451
Modeling Design of Airborne Evaporation Cycle System Y.S. Guo, Y. Zhang and M.K. Cheng	455
Noise Analysis of φ-OTDR Vibration Sensing System L. Ma and Y.Q. Li	459
Simulation and Experimental Study on Coal and Rock Cutting Test Equipment Hydraulic Feed System	462
S.L. Zhu, S.B. Wang, X.Z. Wang, X.F. Li and M.X. Ji Finite Element Analysis for Structure of Airborne Evaporation Cycle System	463
Y.S. Guo and Y. Zhang	468
Study & Analysis of Cutting Tobacco Quality and the SD5 Working Conditions Y.H. Song, Z.K. Li, Y.S. Zou, Y.K. Xu and Y. Luo	472
Research of Ultra Precision Machining Technology Y.P. Fan	476
Application of PLC in the DC Vertical Lathe Spindle Control J.X. Ma	480
The Design of Small Agricultural Corn Thresher Y.G. Liu	484
Research of Waste Heat Power Generation Main Steam Valve Control H. Zhao, Y.F. Wang and H.J. Wang	487
Deformation Prediction Based on BP Artificial Neural Network of Milling Thin-Walled Aluminum Alloy Parts H.B. Ouyang	492
Dynamic Characteristics Simulation of Radiator Fin Blanking Machine Hydraulic System J. Wang	496
Analysis and Simulation of Control System for PMSM in Electric Vehicles C.J. Wang, L. Ge and Y.X. Tian	500
Intermediate Stage Build of Sheet Metal in Progressive Die Design X.D. Li and X.H. Zhan	504
Analysis of Working Mechanism and Affecting Factors of the Precision Dibbler's Punching on the Film	
X.R. Lü and X.L. Lü Process and Equipment Process of Engine Plade of the Shot Process	508
Process and Equipment Research of Engine Blade after Shot Peening C.X. Zhou, S.R. Wang, H.G. Li, R.G. Wang and Y.Z. Zhai	515
Study on the Processing Rate Allocation in Forming Process of Cartridge Case J. Zhao, Z.H. Du and J.K. Zhao	519
Structural Optimization of a Chain Transmission with Constraints L. Hong and X.J. Li	523
The Sub-Sectional Control of Biped Walking Robot G.D. Chen, D.J. Liu and T.X. Li	527
An Experimental Investigation on the Grinding Force of the Electroplating CBN Grinding Wheel with Abrasive Ordering Pattern	
S. Zhang, Y.S. Lu, J. Wang, F. Ma, Z.Z. Liu and L. Xiang	534
Study of Energy Saving Controller for Beam Pumping Unit Base on Neural Net PID X.G. Li and P.P. Xiao	538
Research on Nonlinear Roll Stability of a Rotarily-Molded Boat Y.L. Liu	543
A Research on Simulations for the Adaptive Impedance Algorithm of Robot Manipulator F. Wang, H. Sun, J.G. Lv and Z. Yang	548

Design and Realization Large-Scale Intelligent Lighting System with Adjustable Light C.X. Gu	552
Study on Parameters of Slurry Pipeline Transportation Technology in Grade G.Y. Pu, Y.X. Bu, C.L. Pan and H.W. Liu	556
A Research on Impedance Control Based on ANN Inverse System for Robot Manipulator Z. Yang, W. Zhang, S.L. Yang and F. Wang	560
Robust Autonomous Car-Like Robot Tracking Based on Tracking-Learning-Detection L.B. Xu, S.M. Tang, J.F. Yang and Y.M. Dong	564
The Weak Light Signal Acquisition Detection Technology Based on Multi-Touch Application Research A.B. Qin and C.Y. Li	572
A Ship Autopilot Detection and Simulation System N. Zhang, P. Liu, H.W. Wang and Z.P. Shen	576
Fast Finite-Time Consensus Tracking of Heterogeneous Multi-Agent Systems with a Virtual Leader Q.Y. Xiao, Z.H. Wu and L. Peng	580
The Contrastive Analysis of Predicting Riveting Pieces of Corrosion Fatigue Based on Multiple Kernel Function	507
J.F. Chen, G. Jiang, Z.S. Li and J.F. Yang Analysis of Lightweight Extension Support Coal Mine Car Loader	587
P.H. Mao, S. Zhang, L.B. Wang and Y.L. Mao Thermal Simulation of an Electric Box	593
B. Chen Legendre Collocation Solution to Fractional Ordinary Differential Equations T.G. Zhao, Z.L. Zhan, J.X. Huo and Z.G. Yang	597 601
The Impact of Wind Farms on Multiple Rocket Spread K.J. Zhang and Y.H. Gao	606
Dynamic Modeling of a High-Dynamic Flight Simulator H. Liu and L.W. Guan	610
The Time-Optimal Control of the 4RRR Parallel Manipulator with Input Backlash L.L. Zhang, Y. Jiang and T.M. Li	616
CFD Simulation of Heat Transfer of Pulsating Gas in a Pipe Z.R. Yin, L.J. Yang and R.Z. Duan	623
Operating Mode Analysis of Pulse Combustor with Exhaust Decoupler Z.R. Yin, L.J. Yang and R.Z. Duan	627
Numerical Simulation of Flaxseed and Cottonseed Oil Cakes G. Chen, X.C. Ren and X. Zheng	631
Mechanism and Condensation Heat Transfer Characteristics Research on the Depth of the Flue Gas Heat Recovery from Burning Natural Gas J.W. Han, W. Lv, J.M. Gao, Q. Du, C. Cheng and X.Y. Lin	637
GPC Control Strategy and Simulation of a ZigBee Based Wireless Networked Control System	
G.Q. Qiu, D.M. Cao, S. Liu and J.J. Bao A Method of Saddle Trajectory Simulation Based on ADAMS	641
Q. Fu and W.M. Zhang Anti-Ship Missile Capture Capability Modeling and Simulation Evaluation	645
X.L. Hou, P.Z. Shen and M.S. Luo	649
Stability and Hopf Bifurcation in Delayed Predator-Prey System with Ratio Dependent Y. Yuan	655
The Application of Cell Mapping to Dynamic Modeling and Control L.L. Guo and Y. Wang	661
The Reliability Analysis of the Parallel Mechanical Leg (2UPS+UP) Based on a Repairable Markov Model J.L. Zhang, Z.L. Jin and D.M. Zhao	665
Numerical Simulation of Double Hypervelocity Impacts on the Satellite Propellant Tank with Baffle Protection C. Zhang, X.H. Xu, Y.H. Zhu and Z.H. Yao	669

Numerical Analysis of Hydrodynamic on Tidal Current Energy Extraction under Marine	
Platform J. Liu, Y. Ma and J.X. Li	674
Numerical Simulation of the Gear Flowmeter Reveal Based on Pumplinx J. Zhang, Y. Wu, H.M. Tang, C.R. Tang and X.H. Li	679
Numerical Simulation on Secondary Vortex Rotational Phenomenon for Helically Coiled Water Pipe	
L.D. Tang, S.Q. Yuan and Y. Tang	684
Simulation Analysis of Synchronous Belt Transverse Vibration Frequency Y.C. Shi, Z.G. Li and D. Liu	688
Ratchet Effect in a Triple Delta-Kicked Model L. Chen, C. Xiong, J. Xiao and H.C. Yuan	692
Numerical Simulation of Thermobaric Explosive Explosion in Free Field X. Li, B.L. Wang, Z. Han and N.N. Zhao	696
The Load Simulation Research of Nose Landing Gear Steering L.H. Zhang, X.Y. Qi, J.G. Ma and R.R. Yang	701
Mobile Robot Path Planning Based on Ant Colony Optimization B.F. Zhang, Y.C. Wang and X.L. Zhang	706
Safety Distance Mathematical Model of Pro-Active Head Restraint Based on Fuzzy Theory X.Q. Yin and M.X. Wang	710
Eliminating Accelerated Flow Technique Based on Grading and Continuous Transportation C.L. Pan, Z.Y. Zhang, G.Y. Pu and H.W. Liu	715
Synchronization of Complex Chaotic Nonlinear System with Time-Delay J.M. Yu, L. Zhao, S.B. Zhou, L.Y. Bao and F.L. Wang	719
Chaos Synchronization of Hyperchaos Rossler System L. Wu, J.C. Wei and L. Jie	724
Quasi-Static Finite Cylindrical Cavity Expansion Model for Penetration of Confined Concrete Targets	
Y.Y.Y. Cao, Q.H. Tan and Z.G. Jiang	728
Dispersion Correction for Acoustic Multipole Logging on Guided Waves in Transversely Isotropic Medium	
L. Zhang, H.X. Chen, M.X. Hao and X. Gao	732
Chapter 2: Measurement and Instrumentation, Monitoring, Testing and Detection Technologies	
The Application of χ^2 Goodness-of-Fit Detection Method X.C. Gao	739
Large-Scale Complex Aircraft Part Digital Inspection Technology Based on 3D Model L.G. Qu, Z.L. Dong and H.J. Zhou	743
The Remote Monitoring System of Highway Slope Safety C.H. Han, J.P. Zhu, H. Li and X.T. Wang	747
Redundancy Design in the Digital Instrumentation and Control System Design of Nuclear Power Plant	
H.R. Li and X.H. Yang	751
Remote Control and Communication System for Rescue and Detection Robot with Intrinsic Safety in Coal Mine	755
C. Liu, W. Song, L. Wang and C.R. Xue The Support Vector Machine Fault Diagnosis Algorithm Based on Cloud Computing C.H. Zhang, S.L. Chang and S.H. Cas	755
C.H. Zhang, S.J. Cheng and S.H. Cao Application of Heart Rate Monitoring in Badminton Training	761
X.P. Chi	766
Methods for Monitoring the Temperature of GIS Bus Conductor G. Wu, L.T. Li, Y.F. Peng, C.W. Zhu and Y.L. Zhang	770
An Array Design Method and Error Analysis for Terminal Trajectory Measurement L. Zhang and Q. Zhu	774

Optimal Design of the Wireless Sensor Network on Environmental Monitoring Z.G. Cheng, J. Pan and S.X. Chen	779
Design of Automatic Resistance Tester Based on MC9S12DG128 X.M. Han	783
Drag Coefficient Identification from Flight Data via Optimal Observer R.J. Yang and Y. Ye	787
Application and Study of Magnetotellurics in Hydropower Project B. Hong, B.H. Li and Y.B. Lv	791
NIR Spectroscopy-Based Qualitative and Quantitative Detection of Adulteration of Peanut Oil	
L.L. Zeng, Z.Q. Song, X. Zheng, B. Tu, C. Yin, D.P. He and P.S. Qi The Research on Real-Time Position Monitoring System in Slurry Pipeline Grading	795
Transmission C.L. Pan, Y. Yang, H.W. Liu and G.Y. Pu	802
An Exploration of Fall-Down Detection by Smart Wristband S.Y. Li, A.Y. Ying, M.M. Yuan, H. Shen, T.Z. Chen, M.H. Wu and H.L. Hou	805
Risk Assessment and Risk Warning for Current Transformer Automatic Verification	
System L.H. Wang, S.H. Yao, Y.H. Li, J. Fang and G. Pan	809
The Quality Assurance and Online Diagnosis Technology of Automatic Verification System for Transformer	
F. Zhu, Y.H. Li, L.H. Wang, S.H. Yao and S. Xu Machine Vision Detection on Circle with Non-Uniform Points	815
Q.M. Liu and X. Li	819
The Design and Application of the Intelligent Vehicle Inspection System Based on RFID Y.H. Xiao	823
The New Structure Pedestrian Detection Based on the FPGA A.Y. Guo, M.H. Xu and R. Feng	827
The Wireless Sensor Networks Applied in the Coal Mine Safety Intelligent Monitoring	
System X.P. Jing and W.F. Wang	832
Research on Facial Features of Major Chinese Nationalities Z.J. Li, X.D. Duan and C.R. Wang	837
Error Analysis and Improvement of Equal Precision Frequency Measurement R.X. Wang and X. Zhang	841
Multichannel Human Motion Similarity Analysis Based on Information Entropy and Dynamic Time Warping	
M. Zeng, Z.X. Yang, H.L. Ren and Q.H. Meng	847
Design and Realization of a New Kind of Temperature Monitoring System D.X. Wang	852
Realization Method for Detection on Arc Based on CCD Q.M. Liu, X. Li and L. Zhang	856
Monitoring System in Pig Farm Based on Improved Zigbee Tree Routing Algorithm W.X. Zhu, A.P. Wang, J.F. Zhang and Y. Lu	861
Piggery Environmental Control System Based on Wireless Sensor Networks with Energy	
Optimization W.X. Zhu, X.Y. Mei, Y. Lu and J.F. Zhang	865
Detection and Identification of Error in On-Line Monitoring of Transmission Line S.H. Fan and S.H. Yang	869
Excess Heat Power Measurement by Heat-Flow Calorimeter in a D/Pd Gas-Loading System B.J. Shen, X.Y. Wang, W.S. Zhang, L.H. Jin, X.L. Zhao, D. Zhou, X. Lu, L.Y. Li and J. Tian	874
Ultrasonic Testing Numerical Simulation of Austenitic Stainless Steel Pipeline Welding Cladding	
F.X. Wei, G.X. Yu and Z.L. Wang	878
Simulation for Automotive Engine Fault Diagnosis Method H.X. Liu, G.D. Zhang and Z.Z. Zhang	882

Desing of Real-Time Temperature Measurement System Based on Semiconductor Laser Diode	
Z.S. Yang	886
Application Model Analysis on Automatic System of Fire Detection, Alarming and Extinguishment in Crude Oil Storage Tank X.D. Song and L.Z. Jin	890
For Transmission Line Fault Type Recognition Based on RBF Neural Network G.K. Sun, J.X. Yu and M.Y. Yuan	895
Design and Application of Coal Mine Slope Detection System Based on GPS and PLC F. Tian and X.L. Lu	900
Geometric Design of Capacitive Sensor for Liquid Membrane Detection J. Xue, N. Li and X.D. Yang	906
Microwave Measuring Instrument Application in the Radar Equipment Maintenance Support	
Y.Z. Zhang, Y. Wang, X.Z. Zhang and F. Hou	910
Design of Real-Time Measurement and Control System of Clean-Energy Power Parameters X.M. Sha, Z.H. Fang, Y. Sun, K. Wang, G.J. Guo, X.F. Ye and H.B. Xu	915
Numerical Studies of Reinforced Concrete Beam Damage Detection Based on the Piezoelectric Impedance and Neural Network Technology J. Zhang, J. Huang, H.M. Tang, X.H. Li and X.W. Zhao	920
A New Method of Dam Safety Monitoring for Identifying Displacement Mutation Z.K. Xu, W. Xiong, B.W. Wei and L.H. Li	925
Leakage Detection in Pipelines Based on Bragg Fiber Technique Z.G. Chen, X.R. Zhong, X.J. Lian and J.F. Niu	929
Circuit Breaker Mechanical Characteristic Parameters Measurement Based on Machine	
Vision S.T. Zhao, Y.T. Xu, Z.W. Cheng, J.F. Ren and D. Jiang	934
Monitoring the Travel Characteristics of High Voltage Circuit Breaker Based on TLD B.S. Li, S. Chen, X.P. Zhao and W.H. Niu	938
Design and Application of the Serial Port Communication Module Based on New LED Solar Cell Testing System Z.M. Wang and P.P. Feng	942
Measurement of Cr(VI) Based on Absorption Spectrum through Plastic Fiber W.J. Hu	948
The Method Based on BP Neural Network of Pile Foundation Defect Detection L.T. Zhang, Y.P. Wu and M.Q. Wei	952
Pedestrian Detection Based on Multi-Stage Unsupervised Learning Y. Yin, M.J. Liao and X.L. Li	957
Algorithm Design of 3D Measurement System Based on FPGA W.F. Zhong, Z. Hang, Y.H. Yin and J.W. Ma	961
Multi-Threaded Technology Apply in Real Time Measurement System of Dual-Camera X.M. Cui, K. Zheng, C.R. Liu and Q. Zheng	966
A Real-Time Monitoring and Certification System for Logistics X.L. Li and Y.K. Li	970
Measuring Real-Time Physiological Changes by near Infrared Spectroscopy Y.X. Wu, M.F. Huang, T. Song and G.D. Xu	974
Electronic Equipment Combination Fault Prediction Technology Research Based on LSSVM-HMM V. D. Tion, V. H. Vo and M. Vin	978
Y.P. Tian, X.H. Ye and M. Yin The Measurement of Flow Rate in Mud Transporting Base on Cross-Correlation Method P. Jiang, S.D. Fan and Q. Wen	984
Design and Application of Medical Monitoring System Based on Android L. Wang and G.G. Cheng	990
A Monitoring System for Abnormal Water Surface Based on HSI Space Y.F. Wu, P. Yang, J. Wu and Z.S. Chen	994
A Novel Portable DCRP System for Tunnel-Wall Deformation Measurement Based on Non- Metric Digital Camera	<i>,,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
X.C. Hu, B.L. Zhu, J.W. Zhao, X.F. Huang and D.M. Yang	998

Fall Detection by Wearable Device Using Support Vector Machine	1002
X.W. Wang and F.C. Cao Electricity Metering Monitoring and Management Technology Based on Internet of Things	1003
J. Jin, X.S. Zhang, M. Xu, R. Tong, Y. Mu and X. Li	1007
Designing and Constructing a Non-Contact Measuring Device for 3D Objects J.Y. Shieh, M.X. Gao, Y.T. Liu, G.J. Liao and C.K. Wang	1011
Inference for Burr-XII Masked System Lifetime Data in Step-Stress Partially Accelerated Life Test with Type-I Progressive Hybrid Censoring J. Cai, Y.M. Shi and H.B. Yue	1015
Numerical Analysis of Transducer Installation Effect on Ultrasonic Gas Flow Meter L.H. Qin, Z.Y. Tang, L. Hu, X. Fu and P. Ye	1019
The Research on Weak Fault Time Domain Feature Extraction of Diesel Engine Instantaneous Speed Y.L. Sun, S.J. Wang and H.X. Tian	1026
Multi-Resolution WNN Fault Diagnosis Model Based on Unscented Kalman Filtering for Rotating Machinery	1020
Y.M. Wei, X.S. Gan and J. Yang The Research on the Detection Methods of EMU Break Valves Features	1030
C.L. Guan	1034
The Design and Realization of Airborne Electrical Equipments' Online Test System in the Environments of Mechanics	
Y.T. Yu, M. Chen, F. Tian and Y.J. Shan	1038
Application of Correlation Dimension in Extraction of Power Plant Blower Bearing Fault Feature	1044
Z.W. Pan, S.Y. Liang, Z. Li and Y.B. Liu The GUI-Based Simulation Optimization Platform for Fault Grey Prediction of Diesel	1044
Engine X.H. Zu, J. Wang, C.L. Yang and X. Qin	1049
Research on Acoustic Mechanical Fault Diagnosis Method of High Voltage Circuit Breaker	
Based on Improved EEMD X.P. Zhao, Z.W. Cheng, X.Y. Tan and W.H. Niu	1054
Application of Buffer Operator and Modified GM(1,1) Model to the Prediction of Gear Fatigue Life Z.H. Yuan and F. Guo	1058
Application of Wavelet Transform in the De-Noising of Angular Displacement Signals of	1030
Crank Rocker Mechanism X.C. Jiang, X. Liu, K.X. Han, J.F. Liu and X. Cui	1062
Design of Building Energy Consumption Monitoring Platform Z.L. Yang and Y.M. Zhang	1066
Wireless Sensor Networks to Predict the Range Covered by the Priority Scheduling Algorithm for Multi-Target Tracking	
Y.L. Zhuang, X.L. Weng and X.H. Wei	1071
Design of Distribute Monitoring Platform Base on Cloud Computing Q. Sun and H.Y. Zhao	1076
Analysis of Phased Array Antenna's Vibration Effects on the Performance of Shipborne MLS	
H.S. Xie, P. Zhou, J.G. Wei and D. Wang	1080
A Classification Mechanism of Brain Functional fMRI in Resting State H. Zhou, Z.C. Chen, J.M. Zhu, D.C. Wang and B. Xu	1087
Digital Correction of Registration Error for the Micro Lens Array and Image Sensor in Plenoptic Camera	
P. Liu, R.M. Zhang and D.J. Liu	1091
Study of the Interaction of Colorimetric Sensor Array and Volatile Organic Compounds Based on Density Functional Theory H.Y. Gu, Y.H. Sun, X.Y. Huang and H. Dai	1095
Design and Implementation of Processing Software for D-Peak Changed Pulse Wave	1073
Y. Fei, J.X. Wang and Z. Jie	1101
Effects of Bed Thickness and Shoulder Resistivity on Array Induction Tools J.H. Zhang	1105

The Design of Digital Storage Oscilloscope Based on Virtual Instrument Z. Hui, M.S. Jin, Y.N. Zhai, L. Gao and J. Li	1109
Design and Analysis of Multilayer Semiconductor Sensor for Acetone Gas Sensing J.Y. Fu, D. Wu, B.T. Zhou, Y. Yuan and H.Y. Yan	1113
Study on Echo Fidelity of Radar Simulator Y.H. Xu, F.Z. Wang, Y.L. Liu and D.Z. Zeng	1117
Ultrasonic Beam Simulation of Austenitic Stainless Steel Pipeline Welding Cladding F.X. Wei, G.X. Yu and L.C. Chai	1121
Implementation of the Optimized Localization Algorithm Based on RSSI for Cow Location H. Zhao, X.T. Wang, H.J. Wang and Y.J. Yue	1125
Heterogeneous Sensors Navigation Method for Spacecraft Formation in the Proximity of Small Bodies	
H.X. Yang and X.X. Yang	1129
Chapter 3: Numerical Methods, Computation Methods and Algorithms for Modeling, Simulation and Optimization, Data Mining and Data Processing	
Strategy and Analysis of Sport Events Based on Data Mining Technology H.Q. Li	1137
The Application of Data Mining Technology in the Remote Open Management System M. Bai	1141
Evaluation Model of Students' Entrepreneurship and Innovation in Higher Vocational College under Regional Development L. Sang	1145
Preprocessing in Biomedical Literature Mining Using Natural Language Processing J. Peng and H.M. Sun	1149
Research on Generalization Technology of Spatial Line Vector Data S.Q. Dou and X.Y. Zhang	1153
Research on the System of Data Mining Based on Hadoop X.Y. Zhen and Y. Xia	1157
Fuzzy Maximum Independent Set Problem D.L. Luo, C.Y. Wang, Y. Yi, D.L. Zhang and X.C. Zhou	1161
Explore the Use of Computer-Aided Design in the Landscape Renderings S. Yin	1166
Motions Blur Effects in the Process of Three-Dimensional Animation Technology Research S. Wang	1170
The Design and Implementation of Key Technologies of the Computer Algorithm Dynamic System	
W.Z. Dai	1174
Explore the Process of Computer Sports Simulation Z.H. Hou	1178
The Integer Solutions of Diophantine Equation $X^2 - 21 = 4y^5$ Y. Wu, L. Long and Z.P. Zhang	1182
Short-Term Load Forecasting Based on Big Data Technologies X. Zhang, M. Cheng, Y. Liu, D.H. Li and R.M. Wu	1186
Modeling System Reliability Using a Nonparametric Method W.Z. You and X.P. Zhong	1193
Reliability Analysis for Masked Data under Type-II Generalized Progressively Hybrid Censored Scheme	
B. Liu, Y.M. Shi, J. Cai and M. Chen	1198
Research on MATLAB and its Application in Mathematical Modeling Y. Xu	1202
Research of Data Mining Technology under Tourism Information Y.B. Zhang, D. Wang and J. Wu	1206
Research on Machine Translation Technology in English Translation Process K. Tian	1210

An Improved Concept Lattice-Based Data Mining Algorithm J.X. Zhu	1214
Research on Mining and Classification of Public Opinion Mining Based on Semantic G.L. Wu	1218
The Testimony and Application of Inequality Cauchy-Schwarz Q. Shen	1223
Research of Collision Detection Algorithm Based on Parallel Space Dividing C.Y. Yang, J.M. Cui, Q.Y. Li and D. Wang	1227
Positive Solution of Nonlinear Two-Order Three-Point Boundary Value Problem for Difference Equation with Change of Sign	
C.L. Wang A Hierarchical Bayesian Model for Text Corpora	1232
P. Han, M.M. Chen and Y.N. Zhang	1237
A Path Clearance Optimization Method Based on Retraction Algorithm for Motion Planning F.Y. Yan, F. Wu, F. Peng and Z.J. Zhu	1241
Evaluation Method Research Based on Fuzzy Gravity Center	
K. Yang, D. Tian and L. Peng Research on Application of the Shortest Path in Game Based on an Improved Genetic	1245
Algorithm L.S. Liu	1250
Research and Application of Data Mining(DM) in the Analysis of Postgraduate Admission Information	
H. Hui Research on Optimization and Application of LOD Algorithm in Virtual Reality	1254
Visualization of Terrain J. Sun and H.T. Wang	1258
Research on the Role and Characteristics of Computer in Mathematical Modeling Y. Xu	1262
The Application of Data Mining Technology in the Data Analysis of Traditional Chinese Medicine	
Z. Wang and K.K. She	1266
A Cluster Analysis on Forestry Development Z. Zhao and Y. Gao	1270
Spatial Clustering Analysis of K-Means Algorithm in the Classification of Bank Card Customers K. Lv	1274
The Analysis and Improvement about Word Similarity Computing Method Based on	12/4
HowNet H. Huang and S.J. Cui	1278
Association Rule Mining and Evaluation Based on Information Security Vulnerabilities Main Body	1202
Y. Sui Homotopy Analysis Method for a Prey-Predator System with Holling IV Functional	1282
Response J.S. Yu and J.J. Yu	1286
Applicability Analysis of Two Sensitivity Experimental Methods under Different Conditions of Initial Experimental Parameter D.X. Fu, R. Zhang, F. Li, Z.H. Du, H.L. Ma and C.H. Ping	1292
Research on Database Watermarking Algorithm Based on Genetic Algorithm A.X. Han and Y. Chen	1297
GM (1,1) Model Application in Power Load Forecasting Based on Sliding Average Method L.Z. Song	1300
Data Series Mining Technology Analysis Based on Web Database Y. Hu	1304
The Design and Analysis of the Information Management System Based on Data Mining Y.N. Zhang	1308
Rough Set Model with Tolerance Relation Based on Conditional Prior Probability Z. Tao. S.O. Hu and J. Guan	1312

C. I. A. MCD. D. II. D. I. C. A. P. C.	
Study on the TSP Problem Based on SA Algorithm J. Pan, Z.G. Cheng and J.Y. Lv	1316
Study on Topic Tree-Based Topic Structure Modeling Y.F. Huang, Q. Chen, S.H. Yuan, D.D. Lv and Q. Zhang	1320
Study of Topic Life Cycle Based on Hierarchical HMM T. Pan, Q. Chen, D.D. Lv, S.H. Yuan and X. Jin	1324
The Solution Method of Time-Varying Dynamics Model Based on Recursion Q.F. Zhang, X.M. Cui and Y.C. Wang	1328
Rough Fuzzy Set Based Strength Calculation Method for Transmission Tower D.C. Gong, C.G. Guo, X.J. Li, F.Y. Zhu and X.Y. Xu	1333
Cross Sellingusing Association Rule Mining R.B. Yao, A.P. Song, X.H. Ding and M.B. Li	1337
Stochastic Gradient Descent Based K-Means Algorithm on Large Scale Data Clustering J. Ding, L.P. Zhu, B. Hu, R.L. Hang and Y.B. Sun	1342
The Predication of the Adhesion Rate Based on NARX Model Y. Zhao, J.F. Li and Q. Gao	1346
Research on Spectral Clustering L.L. Fu, Y.L. Liu and L.J. Hao	1350
Modified Quadrature Method for Solving BIEs of Steady-State Anisotropic Heat Conduction Problems	
X. Luo and J. Huang	1354
Learning Algorithm for Fuzzy Perceptron with Max-Product Composition X. Yu, M. Xie, L.X. Tang and C.Y. Li	1359
Cuckoo Search Algorithm and its Application on School Bus Problem X.L. Ma and Y.G. Li	1363
An Improved Harmony Search Algorithm with Application J.P. Li, A.P. Lu, H.C. Wang, X. Li and P.C. Li	1367
Fitting Spherical Surface and Evaluating Sphericity Error Based on the Minimum Zone Principle L. Zhang, L.L. Liu, C.H. Huang, X.H. Lu and G. Sun	1373
	13/3
One Fusion Algorithm of Equipment Fault Prediction Based on Rough Set Theory and Grey Model Z.Y. Song, G.Y. Zhang and Y.Q. Su	1377
	13//
An Improved Particle Swarm Optimization Algorithm for Dynamic Power Allocation Problem J.J. Zhao and W.J. Zhao	1380
Data Mining and Optimize TCM Prescription Compatibility Based on WDS-PLS	
Z. Wang, B. Nie and R.Y. Yu Research and Improvements on Mutation Operators for Simulink Models V.F. Vin Y.B. Zhangad Y.B. Wang	1385
Y.F. Yin, Y.B. Zhou and Y.R. Wang	1389
Summations of Inverse Generalized Harmonic Numbers with Riordan Arrays G.W. Xi and Z.P. Zhang	1394
Automatic View Selection Algorithm Based on Particle Swarm Optimization X.L. Yao and Y.N. Wang	1399
Prediction of Fault Severity of Aircraft and its Equipments Based on Relevance Vector Machine X.S. Gan, J.S. Duanmu and H.L. Gao	1404
Research on Nonlinear Modeling Method of Support Vector Machine with Wavelet Derivation Kernel Function	1.400
P.A. Wang, X.S. Gan and W.M. Gao	1408
The Application of Fusion Algorithm Based on Matrix Analysis in Evidence Theory Y.Z. Zhang, Y.D. Qi and H.L. Wang	1412
Feature Selection and Optimization of Random Forest Modeling M. Zhu, J. Xia, M.L. Yan, S.Y. Zhang, G.L. Cai, J. Yan and G.M. Ning	1416
Comparative Study of Path Planning by Particle Swarm Optimization and Genetic	
Algorithm H.T. Han, W.F. Ji, Y.Q. Zhang and D.P. Sha	1420

Research on Fire Distribution for Shore-to-Ship Missiles	1.405
W.F. Ji, H.T. Han, W.B. Li and D.P. Sha Modeling and Simulation of AWACS Supporting Fighter Plane Air Blockade Combat	1425
Y. Lin, Q.Y. Zhang, Q. Liu, W.S. Wang and Q.S. Huo	1430
Air Ship Missile Carrier Aircraft Attack Array Model Research Y.L. Han, J.G. Yan, Y. Lin, Q.Y. Zhang and Q.S. Huo	1436
Route Planning Modeling Study Based on Genetic Algorithm S.F. Sun, J. Huang, W.F. Ji, Y. Lin and Q.Y. Zhang	1443
Scalable Aviation Assault Surface Ship Simulation System Building Orienting Components Q.Y. Zhang, Y. Lin, W. Guo, Q. Liu and X. Shi	1448
Intelligent Subject and Knowledge Retrieval Algorithm Based on Ontology T.T. Liang	1452
Research on a Class of Multi Parameter Fractal Interpolation Curved Surface Based on Iterative Function Image Generating Method W. Zhang, X.C. Tang and J. Wang	1457
Optimal Solution for Hyper-Sphere Integral Classification Process of Big Data Z.L. Zhang	1462
Key Data Optimization Mining in Massive Student Database Model Z.C. Wang	1466
A Novel Method for Smooth Blending Cylindrical Surfaces Whose Axes are Non-Coplanar	1700
with Intersecting Line of Two Tapered Surfaces	1.450
G.Z. Bai, S.Y. Liu, H. Wang, W. Zhi and Z.J. Yin	1470
The User Preference Model in Emergency Knowledge Representation W.D. Huang, J.D. Yang and Y.F. Ouyang	1474
On the Computational Study of Artificial Fish Swarm Algorithm and its Improvement P.Z. Peng, Y. Yu, Z.J. Wang and M. Jiang	1480
The Subspaces Cover of Linear Space L.L. Lv	1485
An Electronic Commerce Collaborative Filtering Recommedation Algorithm Based on User	
Context P. Fang	1488
A Flexible Multi-Resolution Modeling Method of SoS Combat D.W. Liu, J. Zhu, G.F. Yu and Y.C. Wang	1492
Incomplete Big Data Distributed Clustering Y.L. Leng	1496
Missing Data Clustering Based on Incomplete Information System Y.L. Leng	1500
Construction of Emergency Special Database Based on Quality Control Theory	1504
Y.R. Yu and L.Y. Zhang Traffic State Index Prediction Model Based on Hybrid Intelligent Methods	1504
Z.Q. Shi, Y. Fang and H.Z. Chen	1508
Energy Field Filling of NEIC Broadband Radiated Energy Catalogue Based on Support Vector Machine Regression Model M.F. Wang, Q.G. Jiang and J.L. Feng	1514
Design and Implementation of Excel VBA-Based Combination Charts in Analyzing Mineral Resources Data	1311
R.Q. Du, J.Q. Mu, X.H. Li and X.L. Zhang	1518
Numerical Solution to Volterra-Type Integro-Differential Equations of the Second Kinds by Legendre Collocation Method	1.500
T.J. Zhao Vessal Traffic System Project Post Evaluation Method Resed on Cloud Model	1522
Vessel Traffic System Project Post Evaluation Method Based on Cloud Model Z.Y. Xu, Z.L. Wu, J. Yao and Y.Q. Ren	1528
The Application of Structural Equation Modeling in the Applied Linguistics Research W.F. Geng	1532
Study on Chinese Word Segmentation Algorithm D.X. Chu	1536
Analysis of Chinese Word Segmentation Technology K. Zhu	1540

The Data Analysis of Uniform Design Experiment Based on MATLAB H.M. Gao and H. Liu	1544
Yarn Selection Based on Simulated Annealing Genetic Algorithm L. Jiang, G.F. Yan and Z. Fan	1548
Study of Optimal Decision Model Based on BN S. Ge and X.Z. Xia	1552
A Novel Hybrid Optimization Algorithm of Pattern Search and IWO H.H. Xiao	1557
Assessment of Coaches Using Data Envelopment Analysis and Analytical Hierarchy Process H.C. Tang and Y.A. Dong	1560
Extrapolating Validation Using Bayesian Networks with Interval Probabilities L. Zhao and Z.P. Yang	1564
The Search on Mathematical Model of Evolutionary Computation J. Zhang, M. Li and H.R. Xiao	1568
Application of Structural Equation Modeling Software in Applied Linguistics W. Jing	1573
Application of Structural Equation Model and AMOS Software Z.R. Wei	1577
Applied Research of Association Mining Technology in Student Achievement Analysis System	
Y.H. Wang The Design and Application of Comprehensive Evaluation Data Mode into Professional	1580
Musical Performance Y. Deng	1584
Study and Prediction on the Development Trend of Chinese Sports Venues on the Basis of Grey Prediction Model	1,500
Y.M. Li Application of Data Pre-Processing Method in Web Mining	1588
Y.P. Duan, C.X. Zhao and Y. Shi Research on Modification Algorithm of Cubic B-Spline Curve Interpolation Technology	1592
W.J. Zhang, F. Zhang and J.H. Zhao Research on a Algorithm of Adaptive Interpolation for NURBS Curve	1596
W.J. Zhang, F. Zhang and G.H. Zhang Application of Rough Sets Theory in Graduate Enrollment	1600
J. Huang A Dynamic Edge Exchanged Ant Colony Algorithm for TSP Problem Y. Z. Liver and H.P. Yer	1604
Y.Z. Liu and H.P. Yu Pointwise Saturation Theorem of Bi-Continuous Semigroups	1608
C. Chen The Growth of a Cosine Function Characterized by its Cogenerator	1612
D.B. Cang The Application of MATLAB Simulation Technology on Evolutionary Game Analysis	1616
Q.T. Zhu and C.H. Liu Scheme Automatic Generation Based on Full Life Cycle Assessment Gene Model of	1619
Structure J.W. Chen, H.J. Yang, N. Xu and L. Li	1622
Realization of RBF Neural Network with Local and Semi-Local Transfer Function Approximation and Classification M. Luo and S.Y. Song	1628
The RBF Neural Network Learning Algorithm Based on Entropy Clustering and Competitive	1020
S.Y. Song and M. Luo A Web Service Composition Algorithm Based on Graph Search and Semantic Web	1633
L.L. Hao	1637
An Application of AHP and FAHP on the Model Prediction X.S. Dong, H.Z. Ma and Z. Yang Property Schools for Optimisation Model in Cloud Computing Engineering	1641
Resource Scheduling Optimization Model in Cloud Computing Environment	1645

Research of Dimensionality Reduction for Fatigue Stress Concentration Factor Based on SVM by Linear Kernel	1640
J.F. Yang, Z.S. Li, G. Jiang and J.F. Chen Sparse Coding in Modularity Community Detection with Big Data	1649
Q. Zheng	1653
Fuzzy Maximum Independent Set Problem of Graphic D.L. Luo, C.Y. Wang, Y. Yi, D.L. Zhang and X.C. Zhou	1657
The Differential Game Analysis on the Construction Problem of the Public Libraries X. He, S.L. Tian, P. Chen and W.W. Tian	1662
Empirical Evidence of Hurst Exponent Estimation Wavelet Based B. Luo, T.Z. Zhao, D.H. Li and D.B. Cai	1668
Event Probability Based Priority Filter for Efficient Event Matching W.H. Fan, L. Ding, B.H. Tang, F. Wu and H.G. Zhang	1672
Chapter 4: Information Technologies, WEB and Networks Engineering, Information Security, Software Application and Development, E-Applications	
Research on the Multi Object Polymorphism in C++ Based on Display Management Overloaded Set	
D.Y. Cao Research on Bilingual Corpus Based Machine Translation	1679
S. Wang	1683
Research and Application of Network Aided Translation Method S. Wang	1687
Advances of Key Technology for Machine Translation and its Applications P. Li	1691
The Application and Study on Intelligent Real-Time Machine Translation Technology Y. He and S.J. Wang	1695
Study on Key Technique for Mechanical Engineering Based on Machine Translation C.M. Meng and J. Zhou	1700
The Construction and Research of Library Service Based on the Cloud Service J.Y. Lv	1704
Design and Implement of Chinese Medicine System Based on Machine Translation X.X. Chen	1708
Design and Realization of Network Gambling Crime Investigation System G. Wang	1712
Research on Security Architecture Based on Web Service System Y.Q. Liu	1716
Research on Security Management of Library Computer Network System X. Wang	1720
Research on Methods to Accelerate the Speed of Data Input Based on Library Computer Management System	
X. Wang Research on the Mechanical Remote Collaborative Design Based on JSP Technology	1724
F.Q. Chen Research on Web of Things Service Environment Architecture and Key Technologies	1728
Y. Xia and X.Y. Zhen Research on the Prevention System Models and Defense Process of Network Cultural Safety	1732
Y. Xue Research on Mechanic Product Design Management Information System Based on Web	1736
Technology Y. Song	1741
Research on Construction of Smart Tourism Perception System and Management Platform N. Wang	1745
Virtual Clustered MAC Layer Protocol Design of a Wireless Sensor Network: ES-MAC Y.L. Zhuang, X.L. Weng and X.H. Wei	1749

Research on the Machine Translation Based on the Hybrid Approach S.T. Zhou	1754
Research on E-Government Information Resources Sharing System Based on Cloud Computing	1750
M. Han Research on Traveling Behavior Based on Social Network Platform	1758
B.D. Sun	1762
Simulation and Visualization of Wireless Sensor Networks Based on NS2 G.F. Luo, Z.J. Shi and Y.Q. Xu	1766
Study on Modernization of Electronic Information Engineering Technology P.P. Pan and D.S. Niu	1770
New Media Art in Japan Review Based Computer Graphics Technology X. Wang	1774
GIS System of Crops Distribution and Services for Farmers H.Y. Liu and K.X. Ye	1778
An Adaptive MAC Protocol for Mobile Wireless Sensor Networks N. Lv, C. Chen and T.R. Yin	1782
Research on the Internal Control of Accounting Information Systems under Network Environment	
M.X. Yang and L. Jiang	1787
Research on the Role of Network Media in the Spread of the Marriage Law Q.L. Zhang	1791
The Architecture Evaluation of Weapon Equipment System Based on Complex Networks Q.S. Guo, D. Zhang and C.G. Lu	1795
Security Authentication Scheme Research for Wireless Sensor Networks Y. Chen and Q. Ye	1802
Research on the Computer Network Crime and Information Security K. Zhang, L. Zhao and H.Q. Cao	1806
The Establishment of Enterprise Information Systems Based on Computer Network W. Wang, W.T. Yang, G.X. Ye and J.L. Sun	1810
The Design and Implementation of Data Center Autonomous System Based on Zigbee Y.J. Chen and L. Yin	1814
Application of Computer Database System in Information Management K. Hu	1819
Uneven Cluster-Routing Protocol of Base on Energy for Wireless Sensor Networks D. Peng and S.P. Li	1823
The Estimation of Target Trajectory Based on Energy Attenuation of Wireless Sensor Nodes	
L. Feng, X.M. Ran and G.L. Mei	1827
Research on the Application of Network Technology in Literature Creation L. Wang	1832
Research on the Application of Network Technology in the Dissemination and Creation of Literature	
C. Gong Research on the Security Model Design of Accounting Information System Based on the B/S	1836
Model Z.S. Zhuang	1840
Research on the Design and Implementation of Financial Reimbursement System Z.S. Zhuang	1844
Design and Implement of Financial Management System for Small and Medium Enterprises J. Xu	1848
The Design and Implementation of Net English Teaching System Based on WEB Technology	
L.P. Gong	1852
Research and Implementation of Public Transport Query System Based on PHP L. Zhu	1856
Research on the Key Technologies of SaaS Information Security B. Li, H.G. Zhang and Y.L. Fang	1860

Design of Smart Wireless Campus Network Based on Zigbee X.W. Qi and Z.P. Hao	1864
Research and Design of Intelligent Agriculture Management System Based on the Internet of Things D.L. Shi	1868
Design and Implementation of Automobile Industry Cluster Information Service System Based on GIS	1000
Y.Y. Weng Research on Internet Gambling Crime	1872
J.B. Qin	1876
Research on Design and Implementation of Application Server Based on Java M.L. Liu, J.R. Liu and Q.Y. Chi	1880
Research on Security Issues Based on Campus CAN LAN Y. Dong and J.H. Guo	1884
Research on Malicious Security Issues of Internet of Things for Mobile Internet Y. Dong and J.H. Guo	1888
Active Defense Technology in Network Security Based on Non-Cooperative Dynamic Game Theory	
S.P. Li Key Problem of Component-Based Software Development	1892
Y.P. Cui	1896
Analysis of Security Issue in C2C E-Commerce Based on Game Theory K. Shao, T. Fan and K. Wang	1900
The Research and Application of Forensic DNA Fragment Analysis Software L. Yang	1904
Research on Web Search Engine Optimization and its Application W.Z. Huang	1908
Domain Name System during the Transition from IPv4 to IPv6 H.C. Tian, H. Wang and J.K. Ma	1912
Retransmission of Real-Time Audio and Video Streams through the Residential Gateway in the Home Networking	
H.C. Tian and H. Wang	1916
Research on Application of Software Engineering Theory in Software Development X.J. Song and Z.L. Zeng	1921
Research on the Information Security of Internet Bank Y.L. Du	1925
Research on Sports Information Dissemination Based on Microblog Q. Huang	1930
MicroBlog Orientation Analysis Based on Sentiment Symbol P.Y. Liu, Y.H. Zhang, J.X. Wei and X.Y. Hou	1933
The Design and Implementation of Enrollment and Employment Information Management System Based on Web	
B. Du	1938
Research on the Network Safety Loophole of Enet F.Q. Chen	1942
The Application of Wavelet Neural Network in Prediction of the Fish Price H.W. Li, X.X. Gao and K.J. Cheng	1945
Research on the Design of Network Media Visual Communication S. Li	1950
Research of the Organization and Use of Network Resources Integration Based on Information Source Retrieval	1054
X.J. Zhu Researches on Automatic Software Testing Techniques	1954
W.M. Zou and X. Liu	1958
Research on the Improvement of Internal Control under Accounting Informationization Environment X Wang	1962

The Establishment of Agricultural Information Service Model under the Internet of Things and Cloud Computing Environment	
Q.D. Yu, Y.C. Tian and X.F. Hua Passauch on Security of Agricultural Information Model Based on Claud Computing	1966
Research on Security of Agricultural Information Model Based on Cloud Computing Q.D. Yu, Y.C. Tian and X.F. Hua	1970
Network Resource Allocation for Scalable Video Streaming over P2P Networks Based on Game Theory	
J. Wang, X.L. Lu, S.Y. Guo, L. Yu and W. Liu	1974
Analysis on the Construction of Project Cost Information System C. Jin and Y. Bai	1979
Research on the Design and Development of Mobil Identity Authentication $C.\ Yu$	1983
Research on the Design and Realization of Supervision and Business Management Information System	
X.H. He and Y.G. Zhang	1987
Research on Intellectual Property Protection under Network Information Sharing Environment	1001
N. Xue Analysis of the Spouts Naturally Information Discomination Machanism	1991
Analysis of the Sports Network Information Dissemination Mechanism P. Huang	1995
The Application of Geo-Information System Technology in the Leisure Sports Site	
Construction Z.C. Chen	1999
Analysis on Sport Consumption Behavior under the Environment of E-Commerce P. Huang	2003
Research on the Computer Network Security X.R. Sun	2007
Research on the Risk Characteristics and Regulation Paradigm of Internet Financial T.X. Liu	2011
Information Security Risk Assessment Analysis of Quantitative Methods L. Hu and Y.G. Hu	2015
Research on the E-Commerce Model of Small and Medium Enterprises J. Chen	2019
Research on Application of Virtualization Technology in the Construction of Digital Hospital	
H.J. Wen and M. Hu	2023
Research on Status Quo and Prospects of Online Travel Information Search Z.F. Han and H.X. Qi	2027
Design and Development of Computer Network Virtual Experiment System Architecture Y. Qin	2031
A Novel Project of Access Control of Multi-Level Security Firewall H.Y. Zhao, Y.J. Luo, J. Meng and T. Ma	2035
The Design and Implementation of E-Commerce Personalized Services Based on Collaborative Filtering Recommendation System	
M. Han	2039
Research on Dynamic Extension of Visual Communication of News Website Information J.L. Zhou	2043
Design and Implementation of Business Evaluation System in Business Intelligence Network Management System	20.47
Q.H. Wu and H. Zhao Study on Risk-Driven Iterative Development Method of Geophysical Information	2047
Management System Based on RUP W. Zhang and J. Yang	2051
Researches on the Potential Risks and Solutions of Industrial Control Information Security L. Wang	2055
Research on Network Literature Recommendation Technology Based on Literature Tag T.R. Fu and G.H. Song	2059

Research and Application on Recommendation Trust Model in Distributed Network System J. Song and Q. Song	2063
Application Research about Page Layout Technology Based on DIV+CSS S.J. Zhou, W. Chen, Z.T. Chen and K.C. Zhao	2067
Design and Realization of ECP Dynamic Navigation Based on .NET S.J. Zhou, W. Chen, W. Li, Z.T. Chen and H. Rong	2073
Improved Stability Analysis for Neural Networks with Interval Time-Varying Delays Z.R. Ren and J.K. Tian	2078
Study on Thermal Power Plant Safety Evaluation Based on BP Neural Network C. Wang and Y.J. Lian	2083
Comparison Analysis and Strategies on the Regional Internet Industry Development in China	
F. Ma, L.H. Chen, Q.Q. Hu and Y.P. Luo	2087
Improving Domain Name Service Availability via Cache Optimization Methods X.B. Yuchi, A.L. Hu and X.D. Lee	2092
A Read-Write Optimization Scheme for Flash Memory Storage Systems Y. Yang, W.Y. Li and K. Wang	2096
EIPS: An Efficient Identity-Based Ring Signature Scheme J.H. Zhang, W. Wang, W.N. Zhen and Q.C. Dong	2100
The Offline Storage Technology Based on HTML5 Y. He and J.J. Wang	2104
Design and Implementation of Multi-Protocol Self-Adaptation Gateway K.L. Zhang, D.H. Li, S.C. Shi, X.S. Yang, Z. Xiao and Q. Gao	2108
Design and Implementation of Mobile Meter Reading System Based on SOA S.M. Tong, Y.Z. Wang, F. Sun, C.L. Hao and S.Z. Ren	2112
Application of API Functions in the Visualization Platform Y.R. Guan and F. Zhou	2116
Stochastic Multi-Hop Model of Coding-Based Reprogramming Protocols in Lossy Wireless Sensor Networks J.W. Li, S.N. Li and Y. Zhang	2120
Information System for Geological Archive in Anshan Based on SOA H.C. Cai, M. Pan, Y.Z. Wang, H.G. Qu and X.H. Chen	2124
Reliability Analysis of Highway and Transportation Network with Nodes Failure S.C. Chang and L.X. Li	2128
Development of E-Commerce Platform Commodity Precise Search Engine Technology Y. Lei, C.P. Li and N. Lin	2132
Mobile E-Commerce Personalized Information Recommendation Model Y.M. Wang, R.L. Wang and D.X. Xu	2136
A New Traffic Engineering Algorithm to Simplify Network in Optical Switching Network M.S. Shi, L.J. Zhang, B. Liu, Q. Zhang, Y.J. Wang, Q.H. Tian, X.L. Yin and X.J. Xin	2140
Solutions to the Application of Mobile Stock System in China X.R. Bao and L.Y. Ding	2144
The Application of Intelligent Agent in Network Platform for Undergraduate's Innovation and Entrepreneurship Education L.P. Yang, D.W. Xu and W. Wang	2149
Study on Back-Propagation Neural Networks in Hydrological Forecast R.J. Zhang and Z.S. Li	2153
Construction of Digital Aojiang Watershed R.J. Zhang	2157
Study on the Anti-Theft System for Notebooks on Campus J.Y. Zhang, F.J. Yu, Y.Q. Gao and Q. Gao	2161
An Improved RSA-Based Certificateless Signature Scheme X.D. Dong and H.M. Lu	2165
Identity-Based Signature Scheme over Lattices F.H. Wang and C.X. Wang	2169
Collaborative Scheduling Using Cooperative Sensing Model for Wsns F.Z. Meng, Y. Liu, C.R. Zhang, T. Li and Y. Yue	2175

Research on Software Defect Prediction Method Based on Machine Learning W. Zhang, Z.Y. Ma, Q.L. Lu, X.B. Nie and J. Liu	2182
A Kind of Video Abstracting System Base on Hadoop H.Y. Li, C. Yang, X.Y. Wu and Y.N. Wu	2186
The Design of a Physical Network Isolation System D.G. Zhang, Y. Wu, W.B. Zhang, D.H. Zhang and S.Q. Zhang	2192
Research on Tactical Internet Real-Time Simulation for Training J.J. Shen and Y.Q. Xu	2196
Design and Implementation of Service Migration System in Content-Centric Networking S.S. Deng and X.Q. Qiao	2200
Analysis and Research on Secure Architecture in the Internet of Things X.R. Li, S. Zheng and Y.L. Liu	2205
The Design and Implementation of Web-Based Application System H.Y. Huang	2210
Research and Development of Open-Ended General Online Examination System Based on Institutions	
X.T. Huang and C.X. Liang	2214
Research and Implementation of Virtual Campus Roaming System Interaction Function Based on OSG	2210
J.L. Liu and L. Zhu Web Information Filtering Technology Based on Mutual Information	2219
L. Zhu and L. Bai	2224
Time-Lag Lotka-Volterra System Application in Network Worm Modeling Y.Y. Jiang and T.F. Chai	2229
Student Apartment Management System Design and Implementation Based on ASP W. Wang, L. Bai and L. Zhu	2234
Analysis on Key Technology in Perception Layer of Car Networking System Structure J.Y. Zhang, K.Q. Zhao, Z. Chen and H.J. Hou	2239
Verifiable Privacy Protection Research on the Key Technology of Range Queries in WCSN T.J. Wang	2244
Database System of Business Case Based on Network Perspective J. Xi and W. Li	2248
New Type Cold Thermal Insulation Building Technology Based on BIM Virtual Technology W. Li and X. Zheng	2253
Research on Process Control of Human Resource Management Based on Visualization Technology	
Y.N. Xu	2258
The Application of CorelDraw Software in the Electronic Plan Z.J. Ma	2263
Grid Scheduling Model Based on Petri Net L.M. Chen	2268
HIS System Design Based on UML L.F. Huang	2272
Research and Design of Webpage Adaptive Matching Platform Based on Mobile Phone J. Fan	2276
The Multi-Domain Applications of Internet of Things Y.F. Zhang and Y.H. Ji	2280
Creating on Persistence Mapping File for Vocabulary Comprehension Item Bank of English Network Examination F.H. Li	2284
Analysis and Design of Pop Music Website Based on UML	
X.D. Wu Design on Achievement Analysis System for College English Grade Examination	2288
T.T. Zhang Design on Pop Music Website Based on ASP Technology	2292
Y. Yue	2296
Construction on Autonomous Learning Platform for College English Based on Network Y.M. Zhou and W.Q. Yang	2300

Related Problems Research on English Autonomous Learning in Networked Environment Y.M. Zhou and W.F. Song	2304
Design on College Sports Course Management System J. Pan	2308
Technology and Function on Sports Games Management System W.W. Jia	2312
Building a Scientific Social Network with Joomla! L. Huang, J. Zhang, K. Feng, P. Ju, Y.F. Wei, D.K. Song and H. Xu	2316
Association Analysis and Processing Strategy for Network Events Based on the Combination of RBR and CBR	
L. Chen, Y.H. Chen, J.H. Liu, R. Kang and H.R. Tang Design of Custom AXI4 IP Based on AXI4 Protocol Y.Y. Zou, M. Chen and K.L. Wei	23202326
Design on Online Examination System for College Chinese J. Yang	2331
Construction on Data Flow Diagram and Data Dictionary of Chinese Online Examination System	2225
J. Yang Framework Structure on English Resource Library in Networked Environment	23352339
Y.M. Zhou and J.Z. Luan Application of GIS Technology in Economical Management Information System in Guizhou Province	2339
Z.L. Wang, R. Luo and L. Wang Development and Research of Management Information System Based on Multilayer	2343
Structure S. Liu	2347
Research on Command and Control Efficiency of Anti-Air Combat Using Ships and Warplanes Together Based on Layered Coloured Petri Net S.L. Zhang, Y.T. Wang and J.Z. Mao	2351
Application Analysis of Computer Technology in Teaching Y.L. Wang	2359
A Centralized LTE Private Wireless Network Architecture for Smart Grid Communication Network Y. Sun, Y.X. Huang and L.M. Chen	2363
Constructing Network Learning Platform Based on the Influencing Factors of Mobile Learning - A Case Study on Learning Cell	
B. Xu A Virtual Reality Safety Training System for Coal Mining Industry H.M. Li and B.S. Kang	23672371
An Empirical Study on Imbalance of English Teaching Online W. Liu, F. Yu and H. Lin	2375
The Performance Analysis of Different Topology Structures of High-Speed Train Based on Industrial Ethernet	
C.H. Ren and D.Q. He The Design of Stadiums Operation and Maintenance Management System Based on the	2379
ASP.NET Y.M. Li	2383
Research on the Marketing Management System Based on ASP.NET Technology J. Li	2387
Application of Virtual Reality Technology in Agriculture Y.P. Duan, H.T. Fu and L. Zhu	2391
Application of the Internet of Things Technology in Agriculture Y.P. Duan, C.X. Zhao and Z. Tian	2395
Discussion on Scientific Research Support of Hospital Library under Cyber Environment W.H. Yang	2399
Application of Genetic BP Neural Network in Safety Comprehensive Evaluation of Tailing S. Jiang, H.W. He, H.B. Liu and K.T. Lv	2402

The Application of Computer Technology in Film Music N. Lin	2407
The Study on Educational Resources Based on the Recommended Services W.L. Li	2411
CI and Web Design in Legacy Brand Enterprise Y. Qi, H. Qi, X.D. Zhou and S.J. Li	2415
The Inheritance and Innovation of Historic Brand in Web Design Y. Qi, H. Qi, X.D. Zhou and S.J. Li	2419
Based on Bootstrap and Wordpress to Develop Personal Blog C.G. Bi, L.B. Xia and Y.M. Lu	2423
On College Oral English Teaching in the Base of Virtual Reality Technology W. Zhang	2427
Research and Maintenance of Computer Network Security N.N. Sun and L.H. Ma	2431
Design and Implementation of the Safety Management of Multilevel Network Middleware Based on ICE Technology H.Y. Chen	2435
The Application of Computer Multimedia Technology in Agriculture Y.P. Duan, T.H. Li and Y.Y. Yin	2438
A Directional Forward Routing Protocol Based on Spray and Wait in Vehicular Ad Hoc Networks	2442
J. Han, L. Tang and X.Q. Gu Design and Realization of Network Multimedia Teaching System Based on B/S Model Y.F. Li	2442 2447
The Research of the Physical Education and Training System Based on Network Information Technology	
Y. Liang Analysis of the Application of Multimedia Computer Assisted Instruction Y. Liang	2451 2455
The Projective Synchronization of Drive-Reponse Complex Dynamical Networks F.L. Jia	2458
Research on Energy Efficiency Optimization in Heterogeneous Network H. Bao and P. Shi	2462
Design and Implementation of Online Shopping System Based on MVC Frameworks G.Z. Ye, X.W. Liu and W.X. Jiang	2466
Research on Improving the Teacher's Ability of Transmitting Teaching Information Based on the Horizon of Mobile Platform Technology	2470
X.C. Pu Design and Implementation of Student Information Management System Based on Java Task polony	2470
Technology G.X. Ouyang On Anthony and Language Made of Nationals College Facility Weiting Board on	2474
On Autonomous Learning Mode of Network College English Writing Based on Constructivism M. Wang, D.C. Yuan, X.M. Zheng, S.P. Yu, Y.Y. Lao and X.T. Huang	2477
Research on the Design of Strategy for the Political Information Network Dissemination C.L. Pan	2481
Secure and Smart Container Research Based on the Internet of Things S.B. Xu	2485
Design and Implementation of a Network Test System with Dynamically Generated Answer Options	
X. Zhou, Y.Y. Ma and X.F. Liu Research on Management System of University Multimedia Teaching Equipment Based on	2490
the Internet of Things Technology K. Liu and L. Lv	2494
Solid Proof on Environmental Pollution of Creative City Based on Analytic Network Process	2407
Q.Y. Chen	2497

The Application Research of Network Resources in English Reading Teaching L.N. Wu and T.H. Xiao	2502
The Design and Implementation of Online Exam System L. Liu, H. Shi and R. Zhai	2506
Research and Application of Blended Learning Mode under the Network Environment L. Ma, Y.L. Zhao, Y.Q. Han and H.L. Yu	2510
Extracting Chinese Aliases of Products from the Titles of Selling Webpages M.N. Yang, H.L. Sun and J. Shen	2513
Design and Implementation of Network Vehicle Usage Examination and Approval Process Based on CRP Digital Campus Information Management Platform H.Y. Chen and B.W. Huang	2517
NX Reuse Library Workflow Based on Knowledge X.H. Zhan and X.D. Li	2521
Design of Teachers' Journal Management System in CRP Digital Campus Information Platform D. W. Huang and V. Jiao	2525
B.W. Huang and Y. Jiao The Study of the Ideological and Political Work Management System Based on ASP.NET	
G.R. Cai The Research of Ideological and Political Work Management System for College Students Based on J2EE	2529
J.M. Xu	2533
The Design and Implementation of Network English Reading Platform Based on Web T. Gong	2537
Design and Implementation of English Autonomous Listening System Based on Web Database	
L.N. Wu and T.H. Xiao	2541
The Design of the Campus Short Message Platform Based on Smart Client C.P. Qi, C.Y. Qi and C.X. Gao	2545
Research on Access Network Flow Control Management Process Y.Q. Shi and C.S. Wu	2552
Contrasting Meteorological Wide-Area Networks and Evolutionary Programming Y. Feng, D.L. Cui, Y.M. Li, J.C. Zhang and J.J. Li	2557
Influence of Computer Technology on the Typefaces Design J.L. Wang	2561
Design of the Intelligent Computer Assisted Instruction System S.H. Nie	2565
Design and Construction of Oilfield Digitization System Logs	25.60
B.H. Fu, K.X. Liu and J.C. Ma Realization of the Aviation Aluminum Alloy Cutting Database System	2569
J.H. Pan, Y. Zhuo, G.W. Lan, H.X. Zhan and J.F. Chen	2573
The Software Design and Development of Wireless Terminal for Intelligent Home Control System Based on Android4.0	0.555
J.W. Cao, J.F. He, Y. Wang and Q. Wang A Research on the Distributed BGP Protocol for the Dual-Layer Distributed Controller	2577
J.J. Zhou and J.W. Ruan	2582
Design and Development of the Intelligent Glasses Based on Android J. Zang, X.Y. Chen, Y. Hu, M. Yang and W.P. Wang	2587
Design and Development of Self-Help Emergency Device Based on the Android Intelligence Platform	
X.Y. Chen, J. Zang, M. Yang, W.P. Wang and Y. Hu	2591
Object Group Technology in CAD Software X.H. Zhan and X.D. Li	2595
Design of Logistics Information System Architecture Based on GIS R. Luo, Z.L. Wang and L. Wang	2599
Research on Intrusion Detection Technology for Ad Hoc Network Y.Y. Du, H.Y. Zhao, X.T. Li and X.G. Liu	2603

Based on Linux Platform Information Storage and Service Monitoring Network Management System	
Y.X. Lv	2607
A Network Troubleshooting Method Based on Dempster Rule H.H. Zhou, P.B. Liu and Z.H. Jin	2611
Safety Monitoring System Research of Network Information Q. Li, K. Yang and L. Ma	2618
Research on Intrusion Detection Technology Based on Ad Hoc Network Y.J. Luo, J. Meng and H.Y. Zhao	2622
Windows Malware Detection Method Based on the Path IRP F.Y. Zhang	2626
Monitoring Technological Analysis of Communication Network Platform B.W. Zhao	2630
Design and Analysis of Test Model under Heterogeneous and Internet-Ware T. He, H.Z. Li, T.R. Dan, D.F. Zhang, J.Q. Liu and G.R. Qin	2635
Model Simulation of the Software Compatibility Testing Based on Android System X.G. Wang	2640
LanguageTool Based Proofreading of Sensitive Chinese Political Information Y. Jiang, M. Jing, J. Zeng, F.Q. Shen, D.L. Qi and L.H. Wang	2644
Research on the Static Dispatching in C++ Based on Display Management Overloaded Set D.Y. Cao	2648
Construction of Digital Library Cloud Service Platform J.H. Zhong and Y. Lei	2652
Analysis on the Library Digitization Construction under the Big Data Era of University C.L. Sun, D. Shi and D.M. Guo	2656
Knowledge Pushing Technology Based on the Knowledge Context Node Similarity X.L. Yuan	2660
A Recommendation Algorithm from the Object Perspective W. Zeng, Y. Fan, B.Z. Zhou and Q.X. Wang	2664
Research on Intelligent Computer Aided Instruction System M. Feng	2668
Location Service Framework for Private Cloud Storage System Based on Logical Disk M. Lin, L. Li, Z.H. Guo, Q. Wang and R. Pan	2672
Central-Evaluation Neighbors Acquiring Method for P2P Streaming System S.J. Li, Y.H. Liu and A.M. Wang	2676
Information Leakage of a Kind of Block Cipher Structure Y.H. Huang, K. Wang and M.X. Gao	2680
Performance Comparison of Carrier Sense Random Packet CDMA and Partitioned Slot Reservation Packet CDMA	2694
C.B. Du, H.D. Quan and P.Z. Cui The Special Treatment of NAT	2684
Z.L. Wu Classification of P2P Traffic Based on a Heteromorphic Ensemble Learning Model	2689
L. Ding, L. Mao and X.F. Wang Analysis of Storage Capacity Expansion of Database and its Data Call	2693
Y.Q. Zhao and Y. Liu Research on Construction of Universities Sports Management Information System Based on	2698
Data Mining C. Zhang	2702
Research on Data Sharing for College Financial Systems and Digital Campus Z.S. Zhuang	2706
Research on Distributed Storage Technology Based on Mass Data J. Yang	2710
Design of User Experience Based on Situated Analysis in UI C. Tao and Y. Chen	2714
Research on Goods Recommendation Strategy Based on Decision Tree J. Gao	2718

A Study on Improving Methods of Multi-Source and Multipath in Large-Scale Examination System Cloud Environment	
C.Y. Yang, Z.Y. Li, Y.D. Gu and H. Fan	2722
Tourism Information Search System Based on Android Mobile Phone Y. Hu	2728
Applicance of Data Protection by Flashback in Oracle 11g E.N. Wang and C.Y. Zhang	2732
Research on the Security Technology of Mobile Communication Information H.Y. Chen and W. Liu	2736
Design and Implementation of P2P Enterprise Instant Messaging System W.L. Zhang	2740
Research and Implementation of Multiple Interfaces Wireless Mesh Network Routing Protocol F.M. Liu and W.L. Qu	2744
Construction and Analysis of Website Intrusion Forensics Model Y. Chen and P.Y. Liu	2748
The Implementation Program to Build Computerized Accounting System Model for Small Businesses	27.52
Q.Y. Sun and R.B. Zhang	2752
Research on the Applications of Cloud Computing in the Accounting Modernization M. Ren and W.L. Gu	2756
Brief Analysis of Cloud Computing Security P. He, J. Qiu, F.G. Shao, M. Jie and D. Yu	2760
Data Security Research for Cloud Computing Q. Li, K. Yang and L. Ma	2764
Design and Realization of Algorithm Visualization Teaching Presentation System on	
Computer Graphics Z.W. Wang	2768
Analysis of Computer Information Processing Technology in Era of Big Data S.H. Nie	2772
Study on E-Commerce Platform Operation Mechanism in Big Data Environmen Z.K. Xiong, P.Z. Wan and J.P. Cai	2776
Design and Implementation of Campus Culture Service Module on Library Unified Information System Q.R. Xie	2780
Research on Power Supply Enterprise Performance Management System Based on Neural	2,00
Network Algorithm X.Q. Duan	2784
Design and Implementation of JAVA Online Examination System Based on WEB X.Y. Wang and W.J. Wang	2788
The Simulation Analysis of Network Video Teaching Flow in School	
J.R. Li and W.R. Li Design Practice Guidance Modes Based on Network Technology	2792
X.F. Yang	2796
Application of Web-Assisted Instruction System to Physical S.H. Yuan and W. Ma	2801
Construction and Application of Interactive Network Learning Platform in Information Age D.X. Ning	2805
Design of the Online Stereo Resources Platform Q.L. Wang	2809
Research on the Application of the BP Neural Network C. Yu	2813
Research on Key Techniques of Educational Administration Cloud Service Based on SOA	
and SaaS X.J. Hu	2817
Data Miming System Design and Realization Based on Web Service L. Hu and Y. Huang	2821

Key Techniques and Implementation of Heterogeneous Financial Data Integration S. Li	2825
Research on Information Management of Sports Archives Based on Multimedia Technology and Network Technology Z.H. Yin	2829
Research on the Design and Implementation of Student Information Management System H.Y. Zhao and Q. Sun	2833
Research on Application Computer Technology in Project Management W.Z. Dai	2837
The Study of Distance Education System Based on Cloud Computing and Resource Integration Y. Wang	2841
The Design of the M-Learning System Simulation Model Based on Streaming Media Technology	2041
X.F. Liu	2845
Research on Public Health Service Systems Based on Cloud Computing H.J. Wu, X.Y. Liu, H.Y. Zhao and X.T. Li	2849
Research on the Application of Organizational Management Information System Z.M. Zhang	2853
Researches on the Virtual Security Issues Based on Xen Cloud Computing Platform B.E. Jiang	2858
Cloud Computing in Three Phase Scheduling Algorithm Based on Service Quality Y.L. Zhuang, X.L. Weng and X.H. Wei	2862
Design of Cloud Computing Environment for Online Open Course X.Y. Zhao and C.R. Yang	2867
The Research on GIS Software Engineering Model Based on Cloud Computing Technology Y. Liu	2871
Research on the Physical Training under the Internet Environment C. Zhi	2875
Research on the Application of Information Management System in Sports Competition Q. Li and J.Z. Huang	2879
Research on Performance Optimization Scheme of Oracle Database S.C. Yao	2883
Design and Performance Evaluation of Distributed Virtual Router Based on OpenStack Z.S. Bao, B.P. Wang and W.B. Zhang	2888
Analysis and Design of Information System of Community Service Based on Web L. Li	2893
Design Practical System Based on Packet Tracer Technology W.T. Yu	2897
Design and Implementation of College Students' Grade Management System Based on B/S Mode	
M.Q. Zhan and R.H. Lu	2901
The Design of Online Education Platform and its Operation Mechanism Based on MVC J.K. Chen	2905
Research and Application on the Research Innovation Ability of the Graduate Student Based on the Fuzzy Neural Network L. Hu, G.L. Yan and L. Li	2909
Analysis of Data Security Technology under Cloud X. Kun	2913
Analysis on the Application of Virtual Reality Technology to the Development of CBT in Aviation Industry	2 /13
C.R. Wen, H. Liu, Z.W. Wang, Y.Q. Fan and P.X. Zhao	2917
Design and Implementation of Mobile Technology in English Listening X.X. Chen	2921
Information Security Assessment Data and Control Algorithm J. Huang	2925
Implementation of Android Mobile Terminal Learning Platform Y. Lei and J.H. Zhong	2929

Research on Navigation Information Resources Platform of Maritime Departments Based on Cloud Computing Z.H. Zhou	2933
The Analysis of Calculation in SDN Service Deployment X.T. Tang, M. Gao, W.M. Wang and L.G. Dong	2938
Establishment of Equipment Support Model and Command Flow of Equipment Support Based on Network Centric Warfare Q. Yu, P.F. Peng and L. Gong	2944
Analysis of the Security Mechanism of Android and Countermeasures B. Zhou	2948
Design of Information System of Electrical Power School Based on Cloud Computing C.L. Hao, Y.Z. Wang, S.M. Tong, S.Z. Ren and F. Sun	2952
Distributed Intelligent Field Information Processing for Agile Manufacturing W.B. Zhu, X.C. Zhu, M.L. Wang and W.Z. Ding	2956
Research on Storage Technology of Electronic Textbook B. Dong	2963
Research on Computer Network Fault Diagnosis Mechanism Based on VXI T. Guo and Z.Q. Liu	2967
A Software Watermarking Algorithm Based on Binder Technology S.B. Che, D.M. Guo, Y.M. Wang and L.L. Pan	2971
Optimization of Multicast End-to-End Delay in Multi-Radio Wireless Mesh Networks Y.A. Kang, A.P. Yan and G.X. Xue	2975
TCP Proxy with Data Redundancy Elimination and Compressing Technology L.L. Yu and H.Y. Chen	2979
Public Key Cryptosystem Research Based on Discrete Group L. Bai, J. Zhang and L. Zhu	2984
Elimination Simulation of Incompatibility of Software Transplantation on Different Platform	
H.T. Fu	2989
An Anti-Lost Data Security Storage System for Smartphone Based on Cloud Service W.W. Zhao, Z.G. Wang, W. Cao and H.Y. Liu	2993
Membrane Computing Based Virtual Network Embedding Algorithm with Path Splitting Q. Lian and Z.Q. Wu	2997
Research on the Mechanism of Web Data Mining in Electronic Commerce Application P. Wang	3003
Research on Trust Computation Models in Wireless Sensor Networks J.W. Zhang and X. Gu	3007
Application of Force Control Configuration Software in PLC Experimental System C. Wang and W.N. Xu	3011
Integrity Verification for Cloud Storage Z.Y. Shao and B. Yang	3015
Construction on Virtualized Environment for Digital Library Based on Cloud Computing Technology	
J.J. Liu Detak are Design of Day Marie Website Development	3019
Database Design of Pop Music Website Development Y. Yue	3023
Research of Computer Virtual Laboratory Model Based on Cloud Computing L. Shi, H.R. Zhao and K. Zhang	3027
Research on Cloud Computing Services in Data Security Issues Q. Li	3032
Research of Encryption Algorithm of Two-Dimensional Barcode Based on Pseudo Fingerprint Feature A.L. Zhang, S.J. Li and Z. Yu	3036
A Service Schedule Model in Green Cloud Computing	
J. Li and Q.Y. Han Adaptive Information Brokerage in Wireless Sensor Networks with Virtual Rings	3040
H.L. Chen and X.P. Ma	3044

Research on Microblog Based on Analysis of Mapping Knowledge Y.J. Xi, W.C. Li and X. Liao	3048
A Simulation System of Radio Propagation Effect Evaluation Based on GIS H.M. Wang and J. Dong	3053
Research on Sports Simulation Technology Based on Virtual Reality Technology Z.Q. Le	3058
Research on Security Mechanism of Agricultural Information Platform Based on Cloud Computing	3020
L.N. Zhang and B. Yang	3062
An Optimized Algorithm on Distributed Network Node Data Access Path Based on Behavior Drive Model W.X. Jiang, X.Z. Hu, S. Wang and Y. Liang	3066
The Research of Influencing Factors of Knowledge Sharing in Virtual Community Y.J. Guan and G.Q. Huang	3070
A Teaching Resources Platform Based on Cloud Computing Technology B.W. Huang and J.Y. Li	3074
A Spatio-Temporal Storage Method for Land-Use Change N. Pan, K. Wang and J.J. Tan	3078
A Web Service Enabled Framework for RFID Applications S.P. Li and X.H. Wang	3083
Chapter 5: Electronics and Microelectronics, Embedded and Integrated Systems, Smart Grids, Power and Energy, Electric and Magnetic Systems	
The Design of Information Collection System on the Internet of Things Based on MCU N.F. Lei	3089
The Design of Digital Communication System Based on FPGA N.F. Lei	3093
CMOS Image Sensor-Driven Design Based on TMS320DM368 S. Zhan, B.C. Yu and C.M. Wang	3097
Implementation of Wide-Area and Interconnected FPGA of Embedded Devices Q. Zhang	3102
Research on Modeling and Simulation of Power Electronic Circuits Based on MATLAB Q. Guo, K. Xu, F.Y. Sun and X.Q. Li	3106
Research the Test Method of the Voltage Transformer Secondary Load in the Three-Phase Three-Wire Electric Energy Metering Device	2110
G. Li, Z.M. Fu, J.F. Yan, B.W. Li and Z.R. Cen Research on the Secondary System Design Method of Smart Substation Z.Y. Zhang, H.M. Liu and H.Q. Yu	3110 3116
Research on Design of BLDCM Controlling System Based on FPGA L.Y. Hu	3110
Automatic C Code Generation for Avionics Software Based on VxWorks653 Platform Y. Wang and L. Wang	3124
Wireless Digital Display Thermometers System Design L.F. Liu, H.W. Zhao and X.B. Zang	3128
Improvement on Zero Nonlinear Compensation of Time Division Multiplier W. Zhu and J.J. Yu	3132
Assessment of Transmission Line Condition Based on Neural Networks and Fuzzy Logic Decision	
J.M. Yao, J.J. Yang and Z.B. Lou Assessment of Transmission Line Icing State Based on Multi-Sensor Information Fusion	3137
J.M. Yao, J.J. Yang and Z.B. Lou	3141
Transformer Region Customer Information Management System Design J.M. Yao, J.J. Yang and X.M. Du	3145
A Design of Three-Input Low-Power AND/XOR Complex Gate C.L. Huang, L.Y. Wang, H. Liang and Y.S. Xia	3149

ols. 687-691

Embedded Arm-Based Control System Design for Automatic Strapping Machines J.P. Huang, Z.D. Wang, W.Z. Yu, K. He and R.X. Du	3153
A Segmented DCDL Based on Gate Delay and Phase Interpolation X.J. Wan, J. Liu, G.B. Chen, Y.X. Wang and D.B. Fu	3158
Detection and Simulation of Power Quality for Grid-Connected Doubly Fed Wind Turbine L.S. Li, S.D. Zhang, H.J. Liu, X.Q. Ji, G.B. Liu and K.J. Li	3162
Voltage Imbalance Simulation for Distributed Network with Single-Phase PV Connected L.S. Li, S.D. Zhang, H.J. Liu, X.Q. Ji, G.B. Liu and K.J. Li	3166
The Design of Pressure Test System Based on MSP430 Microcontroller C. Zhang, L. Zhao and T.W. Li	3171
Reflections on Selection about Ship Seismic Sensor P. Cui and C.Z. Bai	3175
An Enhanced Physics Package Used in Rubidium Atomic Frequency Standards H. Feng, J.Z. Cui and J.H. Tu	3179
Optimize OpenFOAM from the Compiler Perspective X.G. Ren	3183
Water-Saving Intelligence Irrigation Systems Design Based on ZigBee Technology L. Zhu and Z.Y. Zhang	3187
Research on the Congestion Management of Power System Based on Multi-Objective Functions and Primal-Dual Interior Point Method W.H. Chen and Y.W. Chen	3191
Automatic Voltage Control and Application W.H. Chen and Y.W. Chen	3195
Research on Crisis Dispatch of Power System Considering Solar Eclipse Impact W.H. Chen and Y.W. Chen	3199
Power System Control Considering Line Flow Risk W.H. Chen and Y.W. Chen	3203
Design of Fiber Data Transmission System Based on FPGA W.Q. Liu	3207
Based on Single Chip Microcomputer Intelligent Bathroom Lighting System Design	3207
Research A.B. Qin	3212
Theoretical Investigation and Analysis of Solar Thermoelectric Air-Conditioner H. Tian, Z.H. Qi and Z.Z. Wang	3216
LQR Based Optimal PID Control for Buck Converter G.Q. Tan, Y.H. Chen and L. Gu	3221
Research on Application of Solar Photovoltaic Grid Power System Research Y.H. Wen, D.H. Li, J.F. Li and Y.C. Jiang	3227
Maximum Power Point Tracking Based on SVR and GA Z.G. Tian, L. Tian, J. He, Z.H. Huang, D.H. Zhang and D.D. Sun	3231
Design of LED Lighting Uninterrupted Constant Current Power Supply X.M. Han	3235
Utilizing Indicator Computing Assistant to Facilitate Distribution Automation in LTE Wireless Private Network Y. Sun, X.N. Lin and L.M. Chen	3239
Optimal Layout of the Multicoil for the B0 Shimming in Magnetic Resonance Imaging Q.F. Zhang, X. Yang and Y. Li	3243
Study of Non-Normal Distribution Time Parameters Data Transmission Reliability in CAN Bus Y. Liu	3247
Conduction Uniformity Improvement of ESD Protection Device in 0.35 µm Partially- Depleted SOI Salicided CMOS Technology Z. Tian and B.C. Li	3251
Quasi-Steady-State Model of Doubly-Fed Wind Power System for Grid-Connected	<i>J</i> <u>J</u> J J I
Simulation K.L. Yang, H.M. Liu, Q.Q. Tang and X.L. Yuan	3255
The Semi-Physical Simulation Research on Power Blackout of Electrical Propulsion Marine X M. Li, C.O. Mao, S.H. Zhu and H. He	3262

Control of Grid-Connected Quasi-Z Source Inverter Based on Three-States Constant Frequency Hysteresis Current Control K. Deng, J.M. Wang, C.Y. Zhang, J. Mei and J.Y. Zheng	3266
A New Fast Filtering Algorithm Based on Multiple Digital Sampling Rate Conversion C. Qian, J. Mei, C. Zhu and J.Y. Zheng	3270
On Study of Harmonic Load Modeling for Equipment Power System Z.Y. Yin and Y.G. Chen	3276
Solar LED Intelligent Lighting Systems Based on Internet of Things and New Energy Storage System	
Z.M. Yang, X.H. Zhang and C. Wang A Capacitor Memory Erasing Technique for Pipeline ADCs	3281
A. Guo and R.B. Hu Study on Visualization of Large Consumers' Operational Risk Information in Power Supply	3285
Company X.X. Song, X.M. Pan, F. Gao, Y. Yuan, Z. Chen and H. Zheng	3289
Power Grid Vulnerability Research Based on the Comprehensive Parameter X.M. Pan, X.X. Song, Y. Yuan, F. Gao, Y.B. Luo and H. Zheng	3294
Chip Waveforms Attribute Recognition Model Research and Design D. Xiao, J. Feng, Y.F. Zhu, F. Peng and J.H. Lan	3299
Modeling and Analysis of the Operational Amplifier with SC Circuit X.H. Wang and P.R. Jiang	3304
Design and Implementation of Smart Home Simulation System Based on FS_S5PC100 and Android D.X. Wang, Y.J. Xu, Y.R. Ma and J. Li	3311
Application of General Regression Neural Network in Effectiveness Detection of Temperature Sensors on Transmission Line	3311
S.H. Fan and S.H. Yang Fault Diagnosis Based on Neural Network Trained by PSO Algorithm with Information	3315
Sharing Strategy for Analog Circuit Y.M. Wei, X.S. Gan and X.Q. Tang	3320
The Work Course Simulation of Electromagnetic Coil Vertical Launcher for Missile W.B. Li, Q.L. Huang, X.Y. Chang and J.Y. Zhou	3324
Design and Implementation of Humanoid Robot Based on MK60 Embedded Microprocessor	
J. Tao, X. Wang, T.H. Zhang, Y.H. Tan and H.X. Sun Study on Optimal Power Flow with Large Scale Wind Power Integration Based on PSO	3328
X.W. Zhu, S.M. Liu, Y. Li, S.T. Chen and Z.G. Pan QXAFS Data Acquisition System Based on EPICS at SSRF	3332
Y.N. Zhou, Z. Jiang, L.F. Zheng and Y.P. Li	3336
Piezoelectric Energy Harvesting and Testing Based on Forced Vibration M.H. Xu, F.R. Gao, L.L. Chen, J.H. Shen and S.S. Ren	3342
Simulation and Analysis of Rectifier Circuit Based on Double Closed-Loop Vector Control Method	
S.T. Zhao, J.F. Ren, D. Jiang and Y.T. Xu Solar LED Street Lamp Controller Design Based on SCM	3346
R.X. Jia, L.J. Wang, S.Y. Yang and G.T. Du	3350
Research on Fault Prediction Method of Power Electronic Circuits Based on Particle Swarm Optimization RBF Neural Network S.Y. Wang, D.J. Chen and Y.Z. Ye	3354
Altitude Correction Method Analysis of Corona Onset Electric Field Strength S.H. You, J. Huang, L. Chen, B.H. Liu, L. Yu, Y.P. Liu and F.C. Lü	3361
The Optimization and Implementation of Power System Parallel Computing Management Platform	
J.L. Chen, N. Zhang, C.F. Qin, N.N. Liu, W.J. Qiu and J.Y. Hu	3365
Study on the Application of PNT Technology in the Flow Control Technology of Power Distribution Network	2271
R.L. Xu, X. Xu, H.J. Ren and X.P. Qiu Data Acquisition and Control System Based on CAN Open Network	3371
F. Xia, Z.Z. Xia, X.B. Huang and L. Song	3375

Characteristic Research on Wireless Power Transfer Based on Magnetic Coupling Resonant S.X. Cui, Z.J. Zhang and X.M. Liang	3379
Single-Stage Power Factor Correction (PFC) Converter Design B.W. Sun and Y.X. Wu	3383
Design of Hybrid Ambient Energy Harvesting Antenna for Wireless Sensor Nodes L.J. Xu, C.S. Wang and B. Xue	3387
Design of an Energy Harvesting Rectenna for Low-Power Wireless Sensor L.J. Xu, C.S. Wang and X. Bai	3391
Research on Control System of Greenhouse Temperature and Humidity Based on Fuzzy PID	
X.M. Shan	3395
Based ARMK10 Electromagnetic Sensor A/D Converter Design and Implementation C.G. Bi, W.T. Kong and Y.M. Lu	3399
A Novel Tapered Optical Fiber-Based F_0F_1 -ATPase Nanobiosensor G.J. Wang and Z.B. Wang	3403
Binding Energy of Donor Impurity in a Rectangular Semiconductor GaAs Quantum Dot with Electric Field	2407
K. Yun, S. Wang and X.L. Li	3407
Research on Single-Phase Back-to-Back SVG Solution of Power Pollution of Traction Transformer to Accessed Grid J.Y. Chen, K.Y. Guo, P. Jin and S.H. Wang	3411
Fault Analysis and Repair Computer Motherboard Interface K.A. Xu	3415
Building Efficient Cloud Platform to Deal with Challenges of New Demand from Smart	
Grid J. Yu, X.Z. Wu, N. Sun, G.X. Zhu and L. Qian	3419
Effect of the Dynamic Characteristic of Long-Span Transmission Tower on High Voltage	
Transmission Line X.D. Feng, F.R. Fu, T.C. Miao, Y.X. Lai and X.F. Wang	3423
A Multi-Channel Large-Capacity Acquisition and Storage System Z.P. Zhao, J. Wang, C.Y. Mai and Y.X. Zhang	3427
Digital Strip Layout Design of Multi-Station Progressive Die X.D. Li and X.H. Zhan	3433
Research of Network Camera Based on TMS320DM8168 J. Li, C.H. Yu, D.Z. Xue and H.J. Gu	3437
Embedded Acquisition System for the Lung Sound Signal Based on STM32 Microcontroller L.Y. Zhang and Z.H. Xu	3441
Study on the Control Strategy of Wind Farms Connected to Power Grid by VSC-HVDC M. Xue, H.P. Zheng, S.Y. Song and X.J. Hao	3446
Study on Control Technology of VSC-HVDC in AC System Fault Mode M. Xue, H.P. Zheng, S.Y. Song and W.W. Yang	3450
Study on Flexible HVDC Transmission System Based on PSO-ADRC M. Xue, H.P. Zheng, S.Y. Song and C.Z. Yin	3454
Research on the Application of the Running Transformer Filtering Oil Device Q.H. Wang, Z.G. Gao, S.H. Chen, X.B. He, B. Liu, C.Y. Liu, P.F. Cheng, S.M. Li, P. Liu and	
Z.C. Xue	3458
A Design Technique and Structure for Optical Fibre Vibration Sensor K.X. Sun, X.J. Li, S.F. Zhang and H. Zheng	3462
Design and Implementation of Digital Frequency Meter Based on SCM W.Q. Zheng	3466
Design of Special Calculator for Ship's Position Using Single Celestial Body Positioning J.H. Wu, Y.Y. Sun, Y.H. Wang, X. Zhao and Z. Ma	3470
Application and Development Prospects Analysis of Solar Car X.B. Yan	3476
Study on the Practical Applications of SVG Technique in New Era Y. Gao, W.W. Suo, X.C. Long, Z.M. Yao and Y. Zhong	3481
A Scheme Based on Embedded Processor for Network Video Surveillance System S.M. Wang, W. Yao, M.X. Yan and G.Z. Wen	3485

The Design of Bandgap Reference Based on Empyrean Aether Software W. Qu, L.M. Hou, X.X. Sun, J.Y. Sun and L.Y. Li	3489
A Real-Time Sequence Detection Algorithm for Floating Point Unit Design W. Sun, J.S. An and S. Yang	3494
Design of LCD System Based on Graphics Library Transplantation Technology P.J. Yu and S. Zhang	3498
Research on the Allocated Capacity of Energy Storage Based on Adjustment of SOC W.C. Dai, Y. Dong, X.F. Zhao and X.J. Shang	3502
Analysis Software for Coaxial Filter Based on MATLAB P. Li and L. Yang	3508
Investigation on Thermal Energy Storage Characteristics of Thermocline Tank with Mixture Filler Materials J.X. Han, Y.P. Yang, J.R. Wu and H.J. Hou	3512
An Optimal Application Partition Algorithm for Energy Efficient Computation Offloading W.H. Fan, Q. Deng, B.H. Tang, F. Wu and H.G. Zhang	3512
Research on the Application of Linearization Pre-Distortion Technique for Memoryless Power Amplifier	3310
S. Wang, L. Zheng, Z.M. Yang and C. Zhong	3521
Simulation of Data Processing for High-Performance Computers D.L. Wang	3525
The Optimal Dispatch of LED Lamps Based on Gradient Projection Method S.L. Deng, M. Xu and J.J. Wu	3530
Simulation of the Output Characteristics of Solar Panels Based on Simulink H.Z. Cai, X.H. Li and J.C. Liu	3536
The Theory and Realization Method for Weak-Magnetic Environment Simulation R.F. Zhang, W. Chi and L.G. Jin	3540
Chapter 6: Communication, Signal and Image Processing, Data Acquisition, Identification and Recognition Technologies	
The Development and Application of 4G Mobile Communication Technology H.Y. Chen and W. Liu	3547
The Use of Computer Image Processing Technology in the Area of Graphic Design S.J. Zhang	3551
Study on the Technology of Digital Image Processing W.H. Li	3555
Human Action Recognition Based on Kinect and MCRF Model W.T. Liu and A.Y. Chen	3559
Oil Leak Image Data Analysis Based on Maximum Variance Threshold Method X. Zhang, L. Zhang and Y.F. Zhang	3564
A Novel Fault Diagnosis Method Based on Time-Frequency Image Recognition W.G. Wang and Z.S. Liu	3569
Research on Communication Protocol Agreement Based on Ad Hoc Network X. Chen	3574
Analysis of the Wireless Optical Communication Technology and its Application F.J. Li	3579
Analysis of the Communication System SDH Transmission Network Fault and its Maintenance Technology H.Y. Yan	3583
The Integration of Image Processing Software and Plane Advertisement Design J. Chen	3587
The Restoration of Motion Blurred Images Based on the Background Modeling J.Y. Chen and X.L. Luo	3591
High-Resolution Remote Multi-Spectral Sensing Images Based on Texture Features C.M. Li, L.Q. Zhu, Q. Wang, Z. Sun, F.C. Huang and C. He	3596

Application of Parallel Computing in Feature Point Extraction Processing of Remote Sensing Images X.C. Xiao, Y.M. Chen and J.F. Yang	3600
Flame Recognition Based on Video Image G.Q. Qiu, S. Liu, D.M. Cao and J.J. Bao	3604
Research on CFA-Based Method of Tomography Y.P. Zheng	3608
Research on Fingerprint Image Segmentation under Complex Background H.X. Wang and N. Liu	3612
Research on Low Quality Texture Image Segmentation Background N. Liu and H.X. Wang	3616
Research on Information Channel Distributed Mechanism in Cognitive Wireless Mesh Network F. Liu	3620
Research on the Multi-Focus Image Fusion Method Based on the Second-Generation Curvelet Transformation K.S. Sun and F.S. Liu	3624
Research on the Micro-Blog Public Welfare Communication on the Perspective of	3024
Harmonious Society S. Chen	3628
Research on Image Compressed Technology Based on Compressed Sensing T. Huang and S.F. Shao	3632
Improved Threshold Function for Power Quality Disturbance Signal Denoising X.L. Fan, W.C. Xie, D.L. Sha and Y. Li	3636
Study on Plant Pest Images Identification Based on Lifting Wavelet Transform C.C. Li, L.W. Yin and D. Chen	3640
Semi-Supervised Classification for Hyperspectral Image Based on Tri-Training L.G. Wang, Y.S. Yang and T.T. Lu	3644
Propagation Channel Modeling for Rayleigh and Rice Fading Y.H. Yang, L.F. Wang and Y. Li	3648
Noisy Image Segmentation Based on Artificial Bee Colony Algorithm Y.H. Xiao, Z.B. He, Y. Hu and W.Y. Yu	3652
An Image Fusion Algorithm Based on Redundant Wavelet Transform M.F. Shen, Z.F. Su, J.Y. Yang and L.S. Sun	3656
Influence of Precipitation Environment in Multi-Band 3-D Complex Objects SAR Imaging J.Q. Chen, K. Xu, L.Q. Li, J.N. Lin and S. Wu	3662
Optimal Design of High-Speed Optical Fiber Communication System Spectral Efficiency of New Modulation Formats	
Z. Fang, L.J. Zhang, B. Liu and Y.J. Wang Frog and Haze Image Enhancement Using Improved Histogram Equalization Method in	3666
HIS Color Space D.Y. Han	3671
Nodes' Adjacency Relation of Video Sensor Network Based on GIS and GPS G.L. Tang, Z.J. Liu and J. Xiong	3675
Alleviating Reactive Bit Jamming in Wireless Sensor Networks J. Wang, X.M. Hu, Y.C. Yang and X.M. Wu	3679
Application of Fuzzy Recognition Model for the Diversion Structures Safety Evaluation at Small Hydropower Stations	
M. Li, X.F. Yu and Y.D. Wei Gesture Recognition of Pigs Based on Wavelet Moment and Probabilistic Neural Network	3686
J.J. Zhou and W.X. Zhu Image Segmentation of Pig Using Wavelet Modulus and Edge Growth	3691
L. Yang and W.X. Zhu Optimization Algorithm Analysis on Satellite Communication Signal Processing	3695
R.H. Liu	3699
Multi-View Radar Target Recognition Based on Bayesian Compressive Sensing S.Q. Liu, R.H. Zhan, Q.L. Zhai, W. Wang and J. Zhang	3704

The Selection of Transmitter Elevation in a Ka-Band HAP-Based Communication System under Fog Attenuation J.Y. Zheng, N. Hai and Y.S. Zhu	3709
Face Gender Recognition Research Based on Local Features and Support Vector Machine L. Zhang	3714
Design Analysis of Visual Illusion Application in Visual Communication S. Li	3718
Simulation Study on Network Dynamic Recognition of Movement Injury Risk Based on Computer Visualization Technology	
G. Peng Image Reconstruction Algorithm of Track and Field Action Based on 3D Virtual Animation Z.P. Tan	3723 3728
Massive Image Treatment System Based on Cloud Computing Platform D. Wu, M.Q. Zhou and R.F. Bie	3733
Application of Digital Image Processing Technology in the Process of Ceramic Art Image Z.B. Peng	3738
Cloud-Based Recognition Technology for Building Crack M. Jin and W.K. Zheng	3743
Research on Very Low Resolution Face Image Reconstruction Z.Z. Guo and X.L. Wang	3747
The Principle and Implementation of Phase Coded Pulse Compression Technology of Radar Y.Z. Zhang, X.K. Tang, C.Y. Shao and H.Z. Lin	3751
Gross Error Considered Stereo Images Relative Orientation H.Q. He and X.Y. Chen	3755
Research on Age Estimation by Means of 2D-PCA S.C. Deng and Y. Chen	3760
Image Edge Extraction Based on SUSAN Operator N. Wang	3765
MATLAB-Based Digital Image Processing Technology Research C.Y. Shi	3769
An Improved Fourier-Mellin Algorithm Based on the Image Amplitude Spectrum X.Q. Ji, J.Z. Cheng, L. Jiang, T.T. Zhang and M.J. Wang	3773
Image Processing and Analysis System for Corneal Endothelial Cell Based on LabVIEW and MATLAB	2777
C.B. Yu, Y.H. Ke, D. Xiao, Y.Y. Yuan and Y.J. Yang Research of Super-Resolution Image Reconstruction Methods	3777
L. Tang	3782
Research on Positioning System Based on ZigBee Wireless Sensor Network L. Jiang	3787
Analysis of Energy Efficiency of Cooperative Communication in Wireless Sensor Networks L.M. Jin	3791
Wind Tower Vibration Signal Analysis Based on EMD and KPCA X.C. You, Z. Wan, Y.Y. Li, H.H. Liu and Z. Chen	3794
Visible Light Communication System Based on RGB LEDs and Large Area Detector P. Zhao, M.L. Zhang and L. Lei	3801
The Research to the De-Noising Method for the Vibration Signals Based on EEMD W.C. Xu, T. Tang, J.F. Liu and W. Huang	3806
Exploring Data Communication at System Level through Reverse Engineering Y.L. Gao, W.P. Wang and C.S. Wu	3809
A Print-Scan Resilient Image Watermarking Scheme Based on Radon Transform Y.G. Fu	3812
Construction Method of Virtual Network Communication System Based on UDP Protocol Z. Zhang	3818
Study of Signal-Noise Separation Based on the Fuzzy Neural Network B. Liang and Y.P. Bai	3822
Computer Vision and Digital Image Processing in Intelligent Navigation System X.C. Zhang and X.D. Jin	3828

The Vehicle Capture Algorithms of Virtual Bayonet System X.J. Zhou and Y.L. Luo	3832
Influence of Vibration on Stabilization Performance of Vehicle-Mounted Sighting Telescope W.T. Jiang, G.Z. Li, G.Q. Ren and D.W. Li	3836
Demodulation of a M-Ray Position Phase Shift Keying System Using Multi-Class Support Vector Machine Classification	2040
X.Q. Chen, S.B. Song and W. Zhou A Kind of Design of Automatic Guided Vehicle Based on RGB Color Space D.L. Hou and X.L. Feng	3840 3844
Design and Research of Green Fields in Urban Parks Based on RS and GIS Technology Y. Chen and C. Tao	3849
Research on Indoor Pedestrian Positioning System Design Based on User Behavior Perception D.D. Ding	3853
Research on Integrated Information Service of Telecom Operators in EVC M.K. Yang, J.Q. Zeng and K.H. Khuhawar	3857
Design of Gait Recognition System Based on FPGA and DSP Z.H. Deng, L.T. Jiao, L.Y. Liu and S.S. Zhao	3861
Detect Tampered Image: A New Approach T. Wang	3869
Road Boundary Detection Based on Random Forests and Particle Filter D.W. Zhao, T. Wu, Y.Q. Fang and J. Dai	3875
A New Target Detection Method Based on Multiple Jamming Cancellation Algorithm Q.L. Zhang, X.B. Wang, J.W. Xie, W.K. Lu and H.X. Zou	3880
A Driver-Assistance System for Large Vehicles Based on Pedestrian and Vehicle Detection X.X. He, L. Ding, P. Wang, F.Q. Liu and X.H. Wang	3884
Research on the Detection of Moving Target for Sport Video Object Analysis Using Hybrid Algorithm	
R. Li, H.C. Xu and J.W. Fu	3889
An Improved Collision Detection Algorithm Based on GPU M.Q. Wang, W. Zhao and H.Y. Qu	3893
Anomaly Intrusion Detection Based on Support Vector Machine with Mexico Hat Wavelet Kernel Function P.A. Wang, X.S. Gan and D.K. Yao	3897
Level Set Prior Shape Model in Face Recognition R.G. Zhang, L. Dong, Q.R. Ge and X.J. Liu	3901
A Facial Recognition System Based on Integral Image W.X. Zhang, W.B. Bai, C. Xu, W.Y. Chen and R. Jiang	3901
A De-Noising Method for GPR Signal Based on EEMD L. Gan, L. Zhou and S.M. Liu	3909
Barley Diseases Discrimination Based on Neural Network	
L.M. Wang Automatic Classification of ECG Using Multi-Classifiers with a New Fusion Method	3914
Y.C. Wang, F.Q. Yan and Y. Fang	3917
Optimum Equalizer Design for Desktop Loudspeakers P. Wang, Z.Y. Wu and F. Qian	3923
An Algorithm Based on Compound Anisotropic Diffusion for Image Denoising M.F. Shen, Z.F. Su, T.T. Chen and L.S. Sun	3927
Person Re-Identification via Locally Biased Metric Learning C. Hao	3932
Research on Physical Decay Model and Location Fingerprint for WIFI Positioning Algorithm	
J.H. Xu, Y.L. Feng and W.W. Fan	3936
Research on the Piano String Sound Reconstruction with Computer Technology Based on the Theory of String Vibration D.J. Li	3942
Swimming Teaching Effect Analysis Based on the Underwater Video Acquisition System Y. Liang	3946

	950
A Novel Antenna Selection Algorithm Based on Port Selection in Distributed MIMO Systems N. Zheng, X.K. Ren, P. Dong and S.L. Zhu 39	956
Using Local Transition Probability Models in Markov Random Field for Multi-Temporal Image Classification	963
Research on Weighted Iterative Stage Parameter Estimation Algorithm of Time Series Model	
An Improved WSN Centroid Algorithm in Low Density of Anchor Nodes	968
Energy Balance Routing Algorithm Based on Energy Heterogeneous WSN	972
Acoustic Inversion Method for Profiling Suspended Sediment Concentration	976 980
Optimize Preview Model Parameters Evaluation of RANSAC	984
Trajectory Prediction Algorithm Based on Iterative Fitting	988
A Digital Watermarking Algorithm Based on Wavelet Transform	992
Satellite Navigation System Positioning Research Based on Pseudo Linear Kalman Filtering Algorithm	-
	996
F.M. Liu and R.Y. Zhou 40	000
Internet of Things System Optimization Design of Logistics Based on Improved LEACH Algorithm X.H. Lu 40	004
Analysis of the Capacity Performance of Cognitive Radio System Based on Continuous- Time Markov Model S. Chen, S. Wang, H.Y. Hu and S.L. Zhu	009
Adaptive Polarization Mode Dispersion Compensation with DPSO Algorithm)15
Design of a Wide-Band Double-Ridged Standard Horn Antenna)19
Design and Simulation of a Wide-Band LPDA S.H. Wang, Y. Li and S.K. Zhang 40.)24
A Simulation Study of FIR Anti-Aliasing Filters Y.H. Yang, L.F. Wang and Y. Li 40.)29
Research of a Variable Rate Real-Time Optical OFDM-PON Access System Based on Oversampling	
)33
and PCA)37
Study TCM Prescription Compatibility Dose-Response Relationship Based on MSC-PLS)42
Goods Inventory System Based on RFID and Android Platform D.W. Xu, L.P. Yang and L. Jiang 40-)46
Missing Tag HPL Detection Algorithm in Large Scale Active RFID System)50
Study on the Multi-Tag Identification Anti-Collision Algorithm of RFID in Automobile Assembly Line)56

Research on Modeling Methods of Power Amplifier with Memory Effect in Broadband Communication	
L. Sun, L.L. Xue, J.L. Wang and C.Y. Zhou	4060
Wideband DOA Estimation Method Based on Khatri-Rao Subspace with Uniform Focusing J. Zhang, S.Y. Qi and A.X. Yong	4064
The Application Prospect of 4G Communication Technology in Smart Grids S.H. Fan and S.H. Yang	4068
Improved Particle Filter T. Wang	4072
A Simplified Receiver Design for SOQPSK-TG Y. Huang and J.P. Li	4076
Remote Data Acquisition System Design and Application Based on GPRS W. Tao and S. Li	4080
The Design of Radar Intermediate Frequency Echo Simulator Y.H. Ding, P. Zhang and H.A. Xia	4084
Human Physiological Signal Recognition Based on Piezoelectric Impedance Technique J. Zhang, J. Huang, H.M. Tang, X.H. Li and Q.Y. Cai	4089
Asynchronous Sampling Rate Conversion of Digital Audio Signal Y. Xue and F. Yang	4093
Motion Compensated Temporal Filtering in Scalable Video Coding Algorithm S.X. Hu and H.T. Zhang	4097
The Application of Three-Dimensional Terrain Modeling Based on GeoTIFF Supported by Creator	
X.Z. Peng	4101
Indoor Location Based on an LANDMARC Improved Algorithm Y.J. Zhang and S.N. Li	4105
Research on Multiuser Scheduling Algorithm Based on the Frobenius-Norm of Channel Matrix Y.B. Zhang, J.X. Li and Y.P. Li	4110
A Mobility Prediction-Based Weighted Clustering Algorithm for Vehicular Ad-Hoc	
Network S.J. Li, Q. Huang, N. Gao and L. Tang	4114
A Comparison of Two Typical Local Feature Matching Algorithm: SIFT and MSER X.C. Jiang, X. Liu, T. Tang, X.H. Fan and X. Cui	4119
Algorithm of Noise Reduction for Adaptive Dictionary Learning Research Based on Brain MRI Images	
J.Q. Miao	4123
Improved Algorithm Based on Level Set Image Segmentation Methods H.W. Han	4128
Signal Processing System of Circuit Breaker Based on Virtual Instrument S.T. Zhao, D. Jiang, X.P. Zhao, J.F. Ren and Y.T. Xu	4132
A Compact UWB Monopole Micro-Strip Antenna with a Desirable Band Notch B.S. Qi and J.J. Shi	4136
Novel Synthesis Method for Image of Materials Texture H.T. Peng, D.G. Zhang, X.D. Song and X. Wang	4140
A Better ACA for Routing and Wavelength Assignment in ASON with Supporting Different SLA of Services and 10Pbps Network Capacity P. Wang, B. Liu, L.J. Zhang, Y.J. Wang, Q.H. Tian, X.L. Yin and X.J. Xin	4148
Solutions of Broadband RCS Using AWE Technique and Equivalent Dipole Moment	
Method M. Yang, Z.G. Wang and J.Z. Zhou	4153
Study on Shannon Source-Coding Theory	44.50
S.J. Yan Pedestrian Counting Based on Pyramid Optical Flows Clustering of Corner Point	4158
F.M. Liu and R.Y. Zhou	4163
Design and Experiment Study for Acquisition System of the Children Lung Sound Signal	1168

Communication Interface Design of Mitsubishi Touch Screen and DSP X.H. Zhang, H.B. Xia and R. Lin	4174
Chapter 7: Materials Science and Applications	
Study of Film Layer Structure and Resistance on High Strength Room Temperature Blackening	
Y.F. Zhang, X. Zhang, M.R. Li and B. Wang	4183
Analysis on Production Plan and Results of Ground Granulated Blast Furnace Slag Based on Circle Flow Mill G.H. Cheng and Y. Song	4187
Study on the Method and Factors of Preparating Cobalt Blue Pigment from Waste Cobalt Acid Lithium Battery Y. Song, G.H. Cheng, J. Guo and X.L. Li	4192
Research on Precipitation Kinetics of Super Austenitic Stainless Steel with High Mo and N S.C. Zhang, H.C. Zhu, D.G. Liu, H. Feng, H.B. Li, Z.H. Jiang, G.W. Fan, W. Zhang and L.Y. Wang	4197
The New Program and Challenge of Upconversion Materials Y.J. Wang	4202
The Review of Non-Lethal Weapons and Equipment with High and New Materials K.S. Xie, D. Liu and D.J. Liu	4206
Preparation of Micro-Arc Oxidation Ceramic Coating and Application in Degradation	
Rhodamine B H.T. Bu, Z.H. Jiang and Z.P. Yao	4210
Analysis on the Structure and Performance of Austenitic Stainless Steel Cladding Layer X. Ding and Z.L. Wang	4214
Electrical Properties of Electrospun Flexible and Stretchable PVDF/PANI Nanoropes W.H. Han, Y. Wan, B. Sun, Y.Z. Long, Q. Chang, F. Yuan and S. Xu	4218
Calixarene-Based Fluorescent Chemosensors for Metal Ions via Clicking W.P. Tang and M.Y. Su	4223
Weak Transient Magnetic Fields Detecting in Thermomagnetic Effect Study of Polymer Material Deformations S.M. Chen, Y.S. Luo, J.X. Su and Y.Z. Zhang	4228
Research on Biological Safety and Application of Nano-Materials in Sports Engineering Y.Y. Chen	4232
Research on Applications of High-Tech New Materials in Sports Training Z.Q. Cai	4236
The Application of Carbon Fiber Materials in Sports Equipment	10.10
Y.Y. Chen Passayah on the Application of Eibon Painfound Compagite Metaviels on Sports	4240
Research on the Application of Fiber-Reinforced Composite Materials on Sports Equipments L. Li and H. Jing	4244
Comparative Analysis on Performance of Table Tennis Racket's Bottom of Different Materials M. Yu	4248
The Application of the Macromolecule Materials with High Mechanical Properties in Competitive Sports	
T.T. Yin and L. Gao	4252
Application of Fiber Reinforced Composites for Sports Instruments D.H. Su	4256
Study on the Preparation and Properties of APP by Non-P2O5 of Polyphosphoric Acid H.M. Du, R.Z. Luo, B. Huang, F.Z. Zhang, J. Yan, H. Yang and G. Zhou	4260
Synthesis and Characterization of a Novel Cationic Type Asphalt Emulsifier L.S. Shi, J.J. Chen, M.J. Sun, Y. Wang, S.J. Lin and Y.F. Zhang	4265
Research on Assessment Parameters of Adsorption Properties in Cation Exchange Membranes for all Vanadium Redox Flow Battery J.Q. Chen, H.L. Lv and B.G. Wang	4269

Applied Mechanics and Materials Vols. 687-69	1
----------------------------------------------	---

mm

Preparation and Thermal Performance of Fluorinated Carbon Nanotubes/Thermoplastic Polyurethane Nanocomposites L. Dai, R.P. Jia, X.Y. He and M.S. Huang	4273
Research on the Morphologies and Corrosion Resistance of Anodic Alumina Films Influenced by Additives in Sulfuric Electrolyte	4077
T.Q. Liang, X.F. Yang, X.S. Fan, Y.L. Wang and C.H. Zhao The Influence of Alloy Elements on Mg-Al Alloy and its Development Prospect	4277
J. Yan, J. Xie, J.S. Yuan, J.Y. Zhang and T. Guo Research on Concrete Photochemical Catalysis for NOx Abatement	4283
M. Chen and L.S. Jin Effect of Ag on the Sn-Cu Lead-Free Material	4287
Z.G. Kong and F.M. Shi Combustibility and Thermal Degradation of PS/IFR/Graphene Composites	4291
J.W. Yang, Z.Z. Wang, L.X. Wu and D.X. Zhuo Research on Friction Property of the Ni/ZrO ₂ Composite Infiltrated Layer on Cast Steel	4295
Surface under High Temperature X.M. Sun, G.R. Yang, L. Wei and Y.L. Liu	4299
Preparation and Properties of the P-Type Transparent Conductive Oxide CuAlO ₂ C.M. Lv, Y. Huang, F. Miao and C.W. Zhang	4303
Manipulation of Separation Selectivity for Alkali Metals Using Capped Single-Walled Carbon Nanotubes: A Theoretical Study	
S.F. Xu First-Principles Study of Interaction of Lithium Atoms with (3, 3) Carbon Nanotubes	4307
S.F. Xu and L.M. Li Density Functional Theory Calculations of Atomic Hydrogen Adsorption on (3, 3) Single-Wall Carbon Nanotubes with Vacancy Defects	4311
Z.S. Li	4315
Preparation of Modified Silica Sol, the Mechanism Analysis and the Applied Research X.Y. Zhang, X.F. Song, J.T. Li and W.C. Yin	4319
The Properties of CrSiN Coatings of Different Si Content X.M. Xu, H. Zhang, F.F. Luo, Z.H. Zhou and S.W. Duo	4323
Synthesis and Characterization of Li _{0.97} K _{0.03} FePO ₄ /Graphene Composites by Carbonthermal Reduction Method Y. Wang, Z.S. Feng, L.L. Wang, J.J. Chen and Z.Y. He	4327
Synthesis and Characterization of Nano Mn ₃ O ₄ for Lithium-Ion Batteries H.P. Zhu, P. Ding, S. Fang and H. Liu	4327
Catalytic Effect of Ti on H-Desorption/Absorption Properties in MgH ₂ Prepared by Ball Milling	1331
Y. Wang Research on the Impact of Precipitates Produced with Fe ²⁺ as a Coagulant Plays on Water	4335
Quality Y. Zhang, L. Zhu and J. Fan	4339
The Production and Application Summary of Magnesium Sulfate Monohydrate	4343
H.H. Wu, L.B. Ma, S.Y. Lu, D. Wu, Y.A. Zhang and Q. Zhang Effect of Extrusion Pass on Microstructure and Transformation Temperature of NiTiNb	4343
Alloy J.W. Liu, Z.P. Ouyang, S.Q. Lu, J.B. Hou and Y.Z. Huang	4347
Research Basis of NiTi-Based Shape Memory Alloy Pipe Coupling J.W. Liu, Z.P. Ouyang, S.Q. Lu, J.B. Hou and Y.Z. Huang	4351
The Changing of Atmospheric Carbon Determined by Silicon D.F. Yang, F.Y. Wang, S.X. Zhu, Y.F. Wu and H.Z. He	4355
A Theoretical Composite Model for Studying the Mechanical Properties of Bimodal Nanocrystalline Materials	1250
H.J. Li, R.Y. Ju, Y.G. Liu, X.D. Mi, H.J. Yu and X.L. Peng Studies of New-Type Titanium Alloys for Aviation Applications in China	4358
Z.S. Zhu, X.N. Wang and G.Q. Shang Experimental Study on Super-Hydrophobic Copper Surface Fabricated by HS-WEDM	4362
Y.L. Wan, Z.X. Lian, H.D. Yu and J.K. Xu	4367

Development of Self-Aligned Process to Decrease Gate Length in Recessed SiC SIT G. Chen, S. Bai, L. Wang, Y.H. Tao and H.Q. Liu	4372
The Abrasive Flow Machining Simulation of Common Rail Tube Holes Based on FLUENT L.F. Zhu, K. Wang, H. Wu, D. Xiu and L.Z. Sun	4376
Modification of Graphite-Gypsum System D.J. Tan, Y. Wang, M. Zhang, P.Q. Wang and L. He	4382
Analysis of Influence of Bubble Structure Characteristics on Frost Resistance of Concrete C. Zhao and J.Z. Gao	4386
The Research of Ring Pressure of the Pile Foundation on the Influence of the Durability of Concrete C.C. Wang, Y.Z. Ye, S. Gao and M.M. He	4389
Structure and Nanoscale Polarization Switching Induced by High Frequency Alternating Current in PbTiO ₃ Polycrystalline Films H.F. Guo and S.X. Guo	4395
Research on Layered Design of Ring-Shaped Acoustic Cloaking Using Bimode Metamaterial	
Q.J. Xiao, L. Wang, T. Wu and Z.G. Zhao Magnetite Processing and Magnetic Field Analysis of Iron Ore Core Inductor in Iron Grade	4399
Sensor L.J. Wang, J.X. Li, L.K. Sun, F.J. Zhang and X.K. Yang	4405
The Polarity of poly(methyl methacrylate) Copolymers Y.H. Zhang, Y. Wang, X.C. Kong and D.M. Zhao	4411
Temperature Field Test and Numerical Simulation Research in Concrete under Cryogenic Temperature L.F. Li, L.H. Yan and Y.W. Zhang	4415
Study on Liposoluble Constituents Fingerprinting of Panax Quinquefolius and Panax Ginseng	-
Y. Qiao, C.M. Li, Q. Li, T. Tang, X.Z. Xu, Y. Zhao and G.Z. Fang Synthesis and Characterization of Tb3+-Doped HA Nanoparticles Used as Biological	4420
Florescent Probe W.M. Gao, Y.P. Guo, L. Hu, Y.Q. Chen and X.F. Xing	4426
Chapter 8: Advanced Information and Innovative Technologies for Management, Logistics, Economics, Marketing, Assessment	
Compensation Incentive of CEO and Internal Capital Market Allocation Efficiency X.W. Zhang and L.H. Chen	4433
Construction Project Quality Evaluation System from Lean Construction Perspective Y.H. Miao	4438
Research on Foreign Trade Strategy of China under the Perspective of Low Carbon L.Y. Yang	4442
Research on the Optimization of Logistics System for the Automobile Manufacturing Based on Supply Chain H.X. Li, Y.L. Cui and X.M. Zhang	4446
Research on the Optimization of Logistics System for a Typical Automobile Manufacturing Company H.X. Li, Y.L. Cui and X.M. Zhang	4450
Research on the Relationship between Enterprise Participation and Customer Satisfaction Degree Based on Value Co-Creation N. Jiang, S.Z. Zhao and N. Wu	4454
Research on the Enterprise Finance and Capital Operation under the ERP Management Balance	-
M. Xing Research on the E-Commerce Model Based on the Value Chain	4458
L.W. Zhu Research on the New ERP Supply Chain Management Model	4462
L. Zhou H.Z. Zhu and Z. Wu	4466

Research on the Innovative Strategies of Business Economic Management under the New Situation	
Y. Lai, J.H. Yan and H. Dang	4470
The Influence of ERP to Enterprise Financial Management Analysis C.X. Li, H. Xu and J.J. Zhang	4474
Construction of Rural Financial System Based on the Concept of Low Carbon Economy L. Yu	4478
Precise Large Deviation of Claim Surplus Process in a Risk Model with END Claim Sizes Y.H. Dong	4482
Research on the Innovation Method of HRM Based on Information Technology M.J. Zhang	4485
Research on the Trading Development of Productive Service Industry and Industrial Optimization in China M. Li and S.X. Gao	4489
Research on Consumer Tendency in Electronic Commerce Times B. Liao, Y. Ou and Y. Lu	4494
Research on the Application of Project Management Theory Y.J. Li	4499
Research on the Internal Control and Reorganization of Enterprise Accounting Process under the Information Environment W. Xing, M. Xian and Y.Y. Tu	4503
Implement and Research on Electronic Banking Security Assessment C. Cheng	4507
Research on Construction Quality Control Content and Method Z.G. Su	4511
The Technology and Storage Stability Studies of Yam Functional Food J.C. Zhao	4515
Research on the Application of E-Commerce in the Economic Management L. Jin	4520
Research on SME Model Innovation under the Transformation and Upgrading Background Y.B. Jiao	4524
Research on the Construction of ERP Mode of Enterprise Groups L. Sun and T. Xue	4528
Research on the Relationship between Relational Embeddedness and Organizational Learning Capability - A Concept Framework Based on SMEs Technology Alliance N. Wu, S.Z. Zhao and X.D. Zhang	4532
Research on Marketing Strategy of Microblog "Point Praise" Y.M. Qiu	4537
Application of Information Security Technology in Risk Assessment of Insurance Companies	
Z.Y. Li and S.L. Jia	4541
Research on the Method of Service Industry Innovation C.K. Tang	4545
Exchange Rate Pass-Through Effect: An Analysis of Different Trade Methods with Computer Technology T. Ren	4549
Review of Regional Economic Development in the Local Government Competition L.F. Shen	4553
Research on the Network Micro-Blog Public Welfare Communication System Y.H. Huang	4556
Research on the Human Resources Performance Management Based on the Strategic Direction Data Mode Analysis	1220
Q.J. Zhu and G.H. Su	4560
Co-Integration Analysis of the per Capita Income between Countryside and Townsfolk in China W. Jiang	4564
Research on the Development of the Logistics Industry	
H C Zhan	4568

Research on the Methods of Logistics Systems Planning in Distribution Center	
Z.C. Qin	4573
The World's Peanut Production and Trade D. Chen and Y.R. Wang	4577
A Total Quality Management Research on the Portman Ritz Carlton Shanghai S.Y. Peng	4582
Study on the Effects of Political Association of Private Listed Corporations in China Y. Liu, Y.M. Ye and Y. Wang	4588
Analysis of Exogenous Factors Affecting TFP Growth of China's Telecom Industry J.S. Liu, Q. Yan, K.H. Khuhawar and H.Y. Shu	4597
Chinese Social Governance Innovation Seeing from American Social Governance Experience	
W.Y. Li, Z.S. Zhang and C.L. Mi	4605
Diversification, Industrial Synergy and Firm Performance of State-Owned Enterprises - Taking Coal Business Groups as an Example X.M. Sun, J. Wang and T. Cui	4609
Impacts of Entrepreneur Traits on Proactive Behaviors Strategy J.Y. Ao and M.M. Yin	4616
Evaluation of Enterprise Leader's Qualities that Affect the Survival and Development of	1010
Enterprises D.H. Gong and Z.J. Wang	4622
Research on the Construction of Green Evaluation Model Based on IOT of Agricultural Products	
Y. Wang and X.D. Deng	4631
Comprehensive Evaluation Research on Sustainable Development Level of Intensive and Economic Sea-Use in Shandong Y. Tian, D.Y. Yu and C. Hu	4638
The Rolling Pull Transport Layout Based on Land and Sea Port Cargo in China X.Y. Tang, S. Cheng, S. Chen, J. Wang, M. Jiang and J.Y. Zhang	4645
Study on Influence Factors of Environmental Management for Heavy Pollution Enterprises - Taking China's Iron and Steel Enterprises as an Example X.L. Zhu and Q.L. Wang	4649
The Researches on the Decline of the Demographic Dividend and Human Capital	1017
Investment Z.L. Wang	4654
A Study for Storage Allocation in Synchronized Zones Based on the Association Analysis of Goods	
X.G. Zhou, N. Mou and L.Y. Wei	4658
Research on Computers Applied to Investigating Criminal Cases on the Crime Scene L. Na	4666
The Risk Management of the Owner in the Bidding Process under the 2013 Edition of the Valuation Mode of Bill of Engineering Quantity	1000
Z.L. Guo and R.H. Jia	4670
The Practice of Optimization and Improvement of Human Resource Management Informatics in State Grid Company B. Wang, Y. Ren, J. Zhang, Y.Z. Ma and Y.W. Yin	4674
Management of Road Maintenance: Compare and Contrast the Different Approaches in Britain and China V. H. Coo. M.M. Tion, P. N. Fong, P. L. Zhu, and J. Chan.	4670
Y.H. Cao, M.M. Tian, R.N. Jiang, B.L. Zhu and J. Chen Precision Marketing and Modern Information Technology F.L. Luo and S. Li	4679 4683
An Enterprise Financial Situation Analysis Based on Comparative Analysis	
W. Xing and Y.Y. Tu The Case Analysis of Presentation and Disclosure about other Comprehensive Income	4687
X. Wei	4691
Analysis of Influence Factors of Voluntary Information Disclosure of Listed Companies X. Wei	4695
Capital Structure and Performance Status of China's New Energy Listed Companies W Xing	4700

A Study of Development Status of Sporting Goods Enterprises in China and Promotion	
Countermeasures of Core Competence G. Lei and L. Li	4705
A Survey into the Upgrade of China's Athletic Equipment Sector from the Perspective of Global Value Chain Theory L. Li and Y.X. Liang	4709
Explorations on Competitive Power of Sporting Goods Industry Based on Global Value Chain Theory L. Li and G. Lei	4713
Comparative Research on Agricultural Informationalization of Developed Countries and China: Take Jiangxi as an Example Y.R. Yu and M. Zhang	4717
Research on Strategies to Enhance Development Capability of Farmers in Jiangxi Y.R. Yu and L.Y. Zhang	4717
Research and Implementation of Professional Quality of Personnel Evaluation System Based on Multi-Dimensional	
M. Jiang and Y. Jiang Innovation Research on Operation Mechanism of Urban Circular Economy in "Blue and Yellow" Economic Zone in Shandong Peninsula	4725
J.Z. Yin, C.Q. Liu, X.G. Gu and W.D. Zhou The Analysis of the Coordination of Real Estate Market Housing Stock and Incremental Housing Polations: Taking Yilan City as an Example	4730
Housing Relations: Taking Xi'an City as an Example H.M. Wei and Z.C. Lu An Analysis of Europiture Manufacturing Industry Competitiveness Resed on Design	4737
An Analysis of Furniture Manufacturing Industry Competitiveness Based on Design Innovation Investment L. Li and T.C. Yang	4741
Empirical Study on the Influencing Factors of Business Model Innovation Y.J. Guan and G.Q. Huang	4746
Investigation and Analysis of Medical Staff on the Cognition of Natural Disaster-Related Disasters M. Xu and J.F. Pang	4750
Developing Stocked Customers' Value in the Telecom Industry by all Behavior Chain Service	
Z.H. Zheng Research on Chinese Rural Human Resources Development and Management under the	4754
New Situation to Strengthen E.H. Liu Research on the Period Management Processes and Organization Resed on	4759
Research on the Design of the Project Management Processes and Organization Based on BIM M.J. Zhou	4763
The Research of Automotive Network Joint Marketing Strategies and Third-Party Platforms Management	
X.M. Wang Reverse Logistics Operation Model Research under the Circumstance of Green Supply	4767
Chain Management L.Q. Li	4771
Exploring the Impact of New Traffic Law Implementing for Driver Risk Awareness Y.Y. Wang, Y.Q. Qin, Y.N. Sui and J. Xiao	4774
Research on the Impact of Supply Chain Integration Span on Firm Performance F. Liu	4778
Research on Profit Claim of Contract Delay in Performance H. Ke and J.Z. Wang	4781
The Research on the Relationship between Absorptive Capacity and Knowledge Integration: The Moderating Effect of Organizational Climate G.Z. Zhang, S.Z. Zhao and J.R. Wang	4785
Project Management Plan's Research and Application under Resource Constraints D. Liang, R. Yin and R.P. Liu	4790

The Influence of the Enterprise's Market Power on its Availability for Trade Credit and Bank Credit Financing - Based on the Empirical Test about the Listed Companies of Electrical Energy	
D. Wu and Y. Luo	4794
Analysis on the Small and Medium-Sized Enterprise Financing Bank Loans Availability L. Xia	4799
Performance of Green Supply Chain in Manufacturing Industry - The Case of a PCB Manufacturer	4002
K.H. Lin, Y.Q. Zhang, S.B. Tsai, S.S. Wen and C.K. Wang Research on Performance Evaluation and Performance Budget of Fiscal Expenditure with	4803
Information Technology W.J. Niu and T. Lei	4807
Research on Electronic Commercial K. Shao, X.M. Liu and K. Wang	4811
The Analysis of Contractor's Risk Clause Based on the FIDIC Construction Contract Z.L. Guo, Y.Z. Hu and J.E. Liu	4815
Evaluation System of Enterprise Internal Control Factors under Information Environment L. Zhao	4819
Research on Durable Consumer Goods Manufacturer's Pricing Decision Y.J. Gao, L.L. Zhou and H.H. Pi	4823
Research on Optimization of Inventory Management Based on Demand Forecasting J. Xi and P.B. Sha	4828
Study on Evolution Mechanism of Industrial Cluster Based on Brusselator Model Y.H. Fang and J.Y. Yi	4832
Research on HRM under Internet Environment L. Jin	4836
Custom Service Support Management Information System H. Zhao and Q.H. Wu	4840
Research on Management System of Coal Mine Equipment Maintenance Based on RCM X.R. Wu and L.M. Cao	4844
The Efficacy of CPPI and VBPI Based on Stationary Bootstrap Method Z.W. Chen, J. Chai and J.Y. Ge	4848
Research on the Financial Processes Construction Based on Cloud Computing K.X. Wang	4853
Forecast and Control for the Amount of Rural Economic Crops W.X. Duan	4857
Research on the Parallel and Reciprocal Mode of Commercial Operations and Public Service of Digital Cultural Resources	4071
Y.A. Gao, X.Y. Wu, Y.C. Zhang and L. Yang The Study on the Integration of GIS and Logistics System	4861
F. Xiong and R. Chen	4867
Practices and Experiences of GMS Countries Based on Big Data Analysis B. Xiong and Y.D. Geng	4870
The Framework of Product Definition Based on Data Mining Techniques L. Yu and Z.F. Zhang	4874
Research on Integrated Managing System Design of NPP F.Y. Li, Y.K. Yan, L.F. Zhang, Z. Chen, L.T. Liao and K. Xiao	4878
Research on Quantitative Methods of Supply Chain Based on Disruptions Management Framework T. Shu and X. Mao	4882
Research on the Multidimensional Accounting System Design Based on the Two-	7002
Dimensional Code Technology Z.S. Zhuang	4886
Research on Simulation Analysis of Elimination Conflicts in Large Financial System Z.S. Zhuang	4890
Research on HRM Based on Knowledge System X. Zhao	4894

The Research on Key Technology of Virtual Clothing Design System X.H. Leng	4898
Research on the Design and Application of Micro Blog Network Marketing into the Global	
Trade Y.P. Wang	4902
Research on Logistics Warehouse Management Information System Based on RFID Y.L. Wang, J.M. Du and S.S. Xu	4906
Design and Implementation of E-Commerce Platform Based on Mobile Communication D. Xiang	4910
The Application of Computer Graphics Technology in Resource Management D.S. Den	4914
Study on the Synthesis Optimization of Time-Cost-Climate in Project D.H. Wei and H.G. Zhou	4918
Research on the Early Warning Mechanism of Financial Risk by Computer Technology L. Liu and C.L. Li	4922
Research on Users Marketing Strategy Based on Decision Tree	4026
Z. Xia Competitive Analysis of Furnian Clathing Industry Board on Diamond Model	4926
Competitive Analysis of Fumian Clothing Industry Based on Diamond Model J.Y. Yan	4930
The Application of Risk Data Measures Mode of Bias Statistics in the Financial Markets with Computer Analysis	
J.P. Guo and L. Bai	4934
Analysis of the Dynamic Correlation between China's Second Board and SME Board Based on Different Methods Q.F. Geng	4938
Research on Optimizing the Relationship between Public Economy and Private Economy	
Based on the Big Data Analysis L. Bai and J.P. Guo	4942
Analysis of the International Gold Market State Based on Markov Chain Y. Cheng, K. Tan, Q. Wang and D.F. Zhao	4946
A Comparative Study between Sino-US and Japan-US Trade Frictions with Big Data Technology R.S. Lv and C.H. Wang	4950
The Study on the Tourism Industry Competitiveness of Regional Based on Structural	4930
Equation Model H.M. Hu	4955
Research about the Influence of Clothing Store Designs and Displays on the Consumer Purchase Decision Based on the Data Analysis	
H. Zhou	4959
The Study and Analysis of Resource Distribution on the Basis of Mathematic Programming Model M. Zhao	4963
The Study on the Engineering Innovation Based on Double Triple Helix Model D.D. Zuo	4967
Agricultural Products Supply Chain Model Based on a Market Risk Control Perspective X. Peng and G. Chen	4972
Investment Efficiency DEA Analysis of Pollution Control in China Y. Hua, C.X. Hou and Y.Z. Gu	4979
Research on C2C Credit Evaluation Model Based on Perceived Credibility of the Buyer C.X. Bai	4984
Performance Evaluation System of Software Enterprise Knowledge Management Based on	
Fuzzy Evaluation L.J. Wang	4990
Concurrent Tolerance Design Based on Manufacturing Cost and Quality Loss Z. Rong	4996
Financial Crisis Prediction Based on Intelligent Algorithm X.Y. Liu	5000

Prediction and Control of Prices for Livestock Meat	5004
W.X. Duan and M.L. Liu Research on Military Logistics Costs Control Based on Activity-Based Costing	5004
Y.F. Li, Y.B. Lv and P.B. Fu	5008
Study on Mapping Techniques of Bill of Material Supporting Complex Assembly Line Material Feeding H.G. Bo, X. Zhang and Z.X. Li	5012
An Empirical Study on the Different Relationship between Technological Innovation and Regional Economic Growth Based on Panel Data W. Liu and L. Xu	5018
Applied Research on Data Mining in Bank Customer Churn S.X. Zhao and Q.Y. Tai	5023
Inventory Classification and Management Strategy of Components and Parts in Assembly Workshops	5020
D.J. Xue A Novel Case-Based Reasoning Method Driven by Emergence Mechanism in Complex System	5028
C.G. Chang, K. Yin, W. Li and M.H. Qi	5032
Scenario Analysis Method and its Application in Medium- and Long-Term Planning of Aviation Safety Development X.S. Gan, J.L. Chen and H.T. Zhao	5036
The Cost Analysis of Construction Enterprises Based on Value Chain G.F. Qiu, T. Cao and H.Y. Zhang	5040
Comparison in Terms of Remedies for Breach of Construction Contract between China and	
Foreign Countries C.H. Zhang	5044
Research on Evaluation Model of the Hidden Costs of Green Building Operational Phase B.L. Shao and Y. Zhang	5048
The Game Analysis of Emergency Disposal of Government from the Perspective of Information Transmission J.T. Zhao, L.M. Zhou, T. Gao and H. Zhang	5052
Model Analysis of the Impact of Logistics Factors on Economy N. Xu and X.J. Zhang	5057
Rational Analysis Model Construction of the Port Trade Logistics Outsourcing B.C. Shao	5061
Under Emergency Crowded Attractions Area Evacuation Model L. Wang	5065
A Hybrid Genetic Algorithm for Shipment Loading Problem with Consideration of Gas Emission	
C.T. Shi, L.X. Liu, Z.W. Luan and Z. Wang	5069
Poly Real Estate Value Evaluation Research X. Wei and X. Mei	5075
The Contrast Research of Presentation and Disclosure about other Comprehensive Income X. Wei	5080
Countermeasure and Research of Activity-Based Costing Applied in the Enterprise of our Country	
X. Wei Allocation of Agricultural Information Resources Based on the Demand of Farmers	5085
C.X. Li and L.Y. Zhang	5089
Integration and Improvement Research on Emergency Information Management and Response Capabilities for Local Government S.J. Tu and L.Y. Zhang	5093
Emergency Distribution Optimization Based on Improved DEA Model	
S.H. Liu and Y.Q. Liu Electricity Price Hearing System of California and its Enlightenment	5097
C. Zhang, L.Z. Zhang and Y. Yang	5102
Model of Genetic Algorithm on the Task Distribution of New Product Development X.H. Wang	5108

Analysis on Job Pressure and Job Performance and their Relationship F. Zhou	5112
The Research of Inventory Management Based on the Supply Chain G.G. Li, J.Y. Zhou and T. Yang	5116
Based on the Method of Enterprise Logistics Cost Accounting Research G.G. Li, T. Yang and J.Y. Zhou	5120
Research on Investment Efficiency for Capital Construction in Coal Mine Based on Principal Component Analysis X. Zhao, R.L. Shan and J.Q. Li	5124
Study on the Participation of Citizens in Public Policy Formulation X. Zhang	5128
Unascertained Measure Evaluation in Financial Distress Prediction of Listed Company H.Y. Zhao and J. Li	5131
Application Research of Fuzzy Evaluation on Direct Trust Evaluation in the Supply Chain J.C. Niu and L.M. Shen	5136
Analysis on Influence Factors of Coal Mine Capital Construction Investment Efficiency R.L. Shan, C.J. Zhang, X. Zhao and S.J. Wu	5142
Research on Effectiveness of Production Resource Allocation Based on Extended Information Entropy	
X.B. Pei and S.P. Lv Solving Portfolio Investment Model Based on Trade Data Stream in the Stock Market	5145
S.Y. Yan Based on Perspective of the Owner of the Design Change Control of the Construction	5149
Project Y.Y. Cao, X.M. Tao, W.T. Zhou and F.L. Zhu	5153
Analysis and Research on Economic Management Statistics Based on SPSS Y.P. Duan, L.M. Si and X. Wang	5157
Study on Vehicle Logistics Routing Path Problem with Time Windows Based on Particle Swarm Optimization L.Z. Gao	5161
The Application of Grey Relational Analysis Model in the Performance Evaluation of Agricultural Product Logistics Companies H. Yu and K. Zhang	5165
Study on Prediction of the Peasants' Income Based on SVM L.N. Zhang and B. Yang	5169
Game Analysis of Logistics Enterprises Default in Financial Logistics C.J. Wang and J. Ming	5173
Research on the Investment Management of Agricultural Machinery Based SPSS Y.P. Duan, H. Pan, Y. Zhang and T.H. Li	5177
A Grey Correlation Analysis Approach to Analyze the Demand Factors for Movie Theatre Attendance	£101
B. Li and X.H. Xiao Power Consumption Prediction Modeling of Cement Manufacturing Based on the Improved Multiple Non-Linear Regression Algorithm H. Zhao, N. Zhang and H.J. Wang	5181 5185
Analysis and Evaluation of Difference in the Level of Regional Development across Taiwan X. Li and J. Xu	5190
Empirical Study on Intra-Industry Trade and Domestic Income Gap L. Xia and C.C. Liu	5194
Study on Agricultural Machinery Products Development Based on Industrial Design Innovation	
Y. Zheng, K. Su and W.X. Song	5199