

Table of Contents

Preface and Committees

Chapter 1: Materials Science and Technology

Research on Logistics Distribution Mode for E-Commerce Businesses Q.H. Zhou and Y. Li	3
Analysis of Social Network Mutate in Start-Up Enterprises Evolution M. Wang and H.T. Peng	9
The Research of Complex Network on Archives Blog Y. He	14
Research of Log System for IP Network Storage A.Y. Deng	19
Research on Supplier Collaborative Product Development Mechanism under Condition of Manufacturing Outsourcing H. Hao and B. Zhun	25
Image Quality Assessment Based on Fuzzy Similarity Measure and Wavelet Transform J.F. Li, W.Z. Dai and H.J. Wang	31
Invariant Features Tracking Based on Transiently Chaotic Neural Network for Markerless Augmented Reality X.Y. Li and D.Y. Chen	37
Variable Precision Rough Set Optimization Algorithm for Constructing Decision Tree X.D. Song, J.W. Mu, R.F. Feng and Z.Z. Qiu	43
Study on Cost Management under EPC General Contracting Model J.R. Zhong	49
Trajectory Modeling of Moving Objects Based in Spatio-Temporal Database J. Liu and J.W. Li	54
Testing-Point Optimizing Technology Based on PSO in Fault Diagnosis H.X. Pan and J.Y. Huang	60
Immune Danger Theory Based Model for SYN Flooding Attack Situation Awareness F.X. Sun and Z.G. Wu	66
Design and Development of Warehouse Management System of Inland River Port J.L. Peng	72
Influence of Multi-Step Cumulative Deformation on Static Recrystallization of Steel 26Cr2Ni4MoV L.Y. Ni, P.C. Kang, S.Q. Yu and Z.B. Liu	78
Based on the Minimum Variance Spectral Estimation of Radar Wind Profile Analysis J. Zhou, J.X. Hui, L. Wu and Y.C. Gao	82
Compatibility of Lignin/LDPE Composites Modified with HDPE-G-MAH X.Y. Lv, Q. Liu, Y.H. Zhang and M.W. Di	88
The Design of Two-Wheel Mobile Platform Using Digital DC Servo Motor Based on CompactRIO Y.J. Liao, M. Li and C.K. Xu	92
Mechanical Property of Nano-Particles Reinforced Epoxy Resin Composite Materials X.Y. Lv, Y. Sun, Z.C. Jiang, Y.H. Zhang and M.W. Di	99
XPath Query Technology of XML Data Stream Based on Structure Index X.M. Wei	103
Routing Lookup Algorithm Performance Analysis and Research X.M. Wei	109
A New Stretching Process: Slant Forging Method L.Y. Ni, S.Q. Yu, L. Li, S.Y. Zhu and H.G. Huang	113
Eco-Efficiency Evaluation of Poyang Lake Region Based on DEA Method H.T. Su, H.Q. Guo, J.F. Hu and H. Zeng	118

The Adaptive Kalman Filter Based on Improved Variable Oblivion Factor Least Square Arithmetic Y. Song	124
Effects of Low Frequency Electromagnetic Field on Cold-Shut Formation during Aluminium Alloy Hot-Top Casting X.J. Wang, J.Z. Cui, Y.B. Zuo and Q.F. Zhu	130
Analysis Model of Discipline Cluster System Core Competence C.H. Yang	134
Human Facial Feature Point Detection is Based on Improved ASM Method Y.P. Sun	139
Reliable H_∞ Control for Discrete-Time Switched Linear Systems with Intermittent Measurements D.S. Du	145
Geriatric Care in Healthcare Information System N.W. Kuo	151
Study and Practice of Recrystallization Annealing Process of High-Plasticity Cold-Rolled Steel Sheet J.Z. Li, H.L. Zhang and Z.H. Li	156
Reliability Assessment of Numerical Control Machine Tools Using Weibull Mixture Models Z.M. Wang and J.G. Yang	161
Application of Least Square-Support Vector Machines in Reliability Analysis of NC Machine Tools Z.M. Wang	166
Application of Association Rule in Students' Results in University L.J. Zhou, S. Li and T. Liu	172
A Novel Control Procedure for Single Axis Roll Forming B. Qian and Q. Li	177
The Magnetic Field Analysis of Dual-Coil Self-Sensing Actuator C.W. Lin, F. Dong, H. Zheng and H. Yan	183
Performance Simulation Study of Power Split Continuously Variable Transmission (PSCVT) L.C. Zhang, S.Y. Bei and J.B. Zhao	189
Application of BP Neural Network to Extract AE Characteristic Parameters of the Crack in the Drawing Parts Z.G. Luo, X. He, A.C. Xu and Q. Chen	195
The Use of Steady Multi-Phase Position and Unsteady Computational Methods in the Numerical Simulation of Double-Suction Centrifugal Pump L. Hu, S.J. Zhang and C. Xu	201
Self-Oscillating Behaviors of Negatively Charged Polymer Chain Induced by the Belousov-Zhabotinsky Reaction Y. Hara and R.A. Jahan	206
Optical Nonlinearities of Epitaxial $\text{KTa}_{0.65}\text{Nb}_{0.35}\text{O}_3$ Thin Films Grown by Pulsed Laser Deposition on (100) SrTiO_3 Z.C. Zhong, S.H. Qu, X.D. Ji, J.B. Hu and D.M. Zhang	212
Package Structure Design of In-Door Air Conditioners Y.Z. Xiao and Y.N. Huang	220
The Application of TOC to Implement ERP System L.F. Cai	226
The Study of Ontology Reasoning to Semantic Web X.Y. Cheng, A.Q. Yang and X.Y. Cheng	230
The Applications of Description Logics in Natural Language Processing X.Y. Cheng, C. Cheng and Q. Zhu	236
Surrounding Rock Classification in Deep Roadway of Coal Mine B. Liu and Q.S. Liu	242
Scheme Design for Machine Based on Black Box-Gray Box Theory R.M. Wu, D.A. Liu and Y.Z. Xiao	247
Numerical Analysis of Inner Flow Field for Disk MRF Brake C.Y. Liu, F.Y. Yi and K.J. Jiang	251

Geostationary Meteorological Satellite Data Processing System H.T. Guo, Z.G. Chang and S.W. He	257
Image Edge Detection Using Nonsubsampled Contourlet Transform C.X. Ma, Y. Bi, Q.S. Zhao, J.K. Shan and Y. Zhang	261
A Method of Determining the Elastic Disable Pressure of Thick Wall Cylinder H. Wang, M. Yu, Y.X. Zhang, M. Liu, B.B. Ye, L.F. Wang and F. Yao	267
Application of Multi-Spectral Imaging Technique in the Determination of Leaves Nitrogen Level of Fruit Tree H.Q. Yang and G. Lv	272
The Image Watermarking against Shearing Based on Dopplerlet Transformation M.H. Deng, W.Z. Li and Q.C. Li	276
Study on V-Bending of Aluminium Foam Sandwich Panels Z.Z. Sun, W.F. He, H.B. Chen, S.G. Chen and R.Y. Li	281
The Structure and Curing Acceleration of PMUF Resins with Sodium Carbonate Z.Z. Gao and F. Liao	287
A Special Criteria to Globally Exponentially Stability for Discrete-Time Recurrent Neural Networks J.M. Yuan, W.G. Wu and X. Yin	293
Analysis on Force of Pressure Head during ECAP Based on Simulation J. Zhang, K.S. Zhang, Y.K. Shi and H.J. Hu	299
Theoretical and Simulative Study on Hydraulic Bridge of Water Hydraulic Servo Valve X.H. Wang, J.Q. Chang, S.W. Sun and G. Zheng	305
MD Simulation of CO₂-CH₄ Mixed Hydrate on Crystal Structure and Stability Y.X. Qi and H. Zhang	310
Research on Leakage Fault Diagnosis and its Simulation for Control Valve of Mixed Gas Y.R. Zhang and Y. Wang	316
Simulation Research on Electric Dominant Strategy of Plug-in Hybrid Electric Vehicle Q.S. Shi and H.Y. Xu	320
New Delay-Dependent Approach on Stability for Systems with Interval Time-Varying Delay T. Zhang, Y.Q. Cui, J. Wang and J.S. Sun	325
Analysis of the Effect of Load Ratio on Fatigue Crack Growth Y. Xiong	330
Research on Word Sense Disambiguation J.W. Zhan and Y.M. Chen	337
Performance Comparison of Interdigitated Thin-Film Field-Effect Transistors Using Different Purity Semiconducting Carbon Nanotubes K.C. Narasimhamurthy and R.P. Palathinkal	343
Research on Tensile Mechanical Properties of GFRP Rebar after High Temperature Y.N. Fu, J. Zhao and Y.L. Li	349
Tearing and Stabbing Strength of Industrial Woven Fabrics P. Wang	355
Design of Asymmetric Double Circular Arc Gear for Large-Scale High-Pressure Gear Pumps Y.W. Liu and J. Fan	361
Simulation Research on Control Technology of Micro-Particle Adhesion to Surface H. Liu and Y.Q. Li	366
Environmental Performance Evaluation Basing on Fuzzy Mathematics W. Sun	372
Design and Analysis of Hydraulic Full-Bridge Network for Water Hydraulic Servo Valve X.H. Wang, J. Zheng, W. Li and S.W. Sun	377
Surface Modification of Wool Fibers by Ecologically Ozone-Assisted Treatment A.L. Wan and W. Yu	383
Review on Modeling Control System of Earth Pressure Balance Shield Machine H.P. Li, D. Wang, J.H. Xi and Y.B. Li	389
Design on a Small Sprinkler Irrigation System for Saving Water Effectively Y.Q. Liu, X.D. Zhang and Q.X. Wang	395

Study on Influencing Factors on Removal of Diesel Oil from Unsaturated Zone by Soil Vapor Extraction	401
L.N. Jiao, Y.S. Zhao, Z.H. Qu and B. Wang	
Preparation of Particleboard Made from Wheat Straw with Low-Formaldehyde-Emission Composite Adhesive	406
Y.H. Zhang, J.Y. Gu, X.Y. Lv, M.W. Di and H.Y. Tan	
A Novel Method for Representation of Spectral Images Based on Color Matching Functions	410
Q. Chen, L.J. Wang and S. Westland	
Selection of Spectral Preprocessing Methods for Soil Texture Classification	416
H.Q. Yang, B.Y. Kuang and A.M. Mouazen	
On Orthogonal Waveform Design for MIMO Radar	422
L. Cai, X.C. Ma, S.F. Yan and Q. Xu	
Preparation of β-Cyclodextrin Modified Poly(d,l-Lactic Acid) and its Blood Compatibility	429
J.J. Zhu, X.J. Quan, Y.L. Wang and S.S. Zou	
Application of Fuzzy Neural Network in Relay Protection	434
M. Zhu, W.D. Liu and W.S. Hu	
Application of Wavelet Neural Network in Power Load Forecasting	439
M. Zhu, W.D. Liu and W.S. Hu	
Finite Element Analysis and Calculation of Tongue-Tearing Process of Woven Fabric	443
P. Wang and B.Z. Sun	
Research on Force Reflecting Control System	449
W.S. Hu and M. Zhu	
Research on New Control Module	456
W.S. Hu and M. Zhu	
Research on Time Delay Stability	462
W.S. Hu and M. Zhu	
A Robust Cooperative Coevolutionary Particle Swarm Optimization Algorithm for Triangulation of Bayesian Networks	468
X.C. Dong, D.T. Ouyang, D.B. Cai, Y.X. Ye and S.S. Feng	
Effect of Morphology and Structure of Fiber and Yarn on Fuzzing and Pilling of Wool Knitted Fabrics	474
A.L. Wan and W. Yu	
Dynamics of Photodecomposition Biodegradation and Volatilization Behaviors of Petroleum on Soil Surface	480
Y.B. Xia, Y.S. Yang, X.Q. Du and M.X. Yang	
A Novel Method for the Synthesis of Manganese Oxide Nanostructures in a Microemulsion	485
H. Tian, J.H. He and L.L. Liu	
A Cooperative Simulated Annealing Algorithm for the Optimization of Process Planning	489
K.L. Lian, C.Y. Zhang, L. Gao, S.T. Xu and Y. Sun	
Synthesis of RePO₄ (Re=La, Nd, Pr, or Y) Nanowires by Chemical Precipitation in Nanochannels	495
C. Mu and J.H. He	
Ni Layer Evolution of FeCrAl Substrate Treated by Ultrasonic and Electroplating Methods in Long Term Oxidation at 900°C	501
D. Sebayang, P. Yanuandri, F. Ade, S.B. Hasan, A. Bin Otman and P. Untoro	
Studies on Commercial District Alliance Governance and Integration Governance Mode Selection	507
J. Zhang, C. Wang and L.J. Zhang	
New Type of PPP-S[T]-PPP Hybrid Cubic Manipulator	516
J.G. Luo and J.Y. Han	
Design and Finite Element Analysis of Magnetic Circuit for Disk MRF Brake	522
C.Y. Liu, F.Y. Yi and K.J. Jiang	
Design and Implementation of Asking for Direction Multimedia System: Application of Mobile-GIS Technology	528
S.M. Yang and Q.W. Zhang	
Orthogonal Test Research on the Effect of Curing Technology on the Fatigue Life of Adhesive Bonding of CFRP and Aluminum Alloy	534
Z.J. Yang, K.F. Zhang, Y.Y. Ma and Y. Li	

Radially Symmetric Deformation of Spherical Shell Composed of Composite Compressible Hyperelastic Materials D.T. Niu, X.G. Yuan and H.M. Deng	540
An Improved Fuzzy C-Means Clustering Algorithm and Application in Meteorological Data H.F. Li, F.L. Wang, S.J. Zheng and L. Gao	545
A Research on the Control System of Wind Power Grid-Connected Inverter J. Guo, L.G. Song and Y. Yang	551
The Research and Design of Vertical-Shaft Water Turbine Power Generation Device Y. Yang, L. Hao, J. Guo and L. Zhang	557

Chapter 2: Materials Science and Application

The Reliability Design and Analysis of the Control System in 29th Olympics Opening and Closing Ceremony J.W. Wang, K. Huang, L. Lu, Z.G. Fang, X.W. Kong and J.T. Wu	565
Optimization for Design of PID Controller Based on Improved PSO J. Zhu, W. Kang and X.M. Zhang	571
MILP Sensitivity Analysis for Short-Term Scheduling of Batch Plants under Uncertainty J. Zhu, X.M. Zhang and W. Kang	577
Discussion on Mathematical Model for Proper Location and Scientific Layout of Chain Fitness Club X.Y. Ma	583
The Design of a Car License Plate Identification System Based on AdaBoost Algorithm H. Wang, X. Li and S. Liu	588
A Combined Middle-Long Load Forecasting Model Base on Differential Evolution Method D.X. Niu, J.J. Wang and L. Li	594
Synthesis of Nickel Silicide/Silicon/Silica Composite Nanostructures by Coevaporation of SiO Powder and Nickel Formate Y. Cao, G. Zhou and J.H. He	599
Multi Channel Recorder for Unmanned Aerial Vehicle Based on ARM9 W. Wan, Y.H. Hu and P. Wu	604
Preparation and Properties of UV Curable Silica Coatings from MPTMS and TEOS F. Liao and X.R. Zeng	611
Research on the Key Technologies of Truck-Tracking and Navigation System Based on GPS/3G Z.Z. Zhou, H. Ma and P.G. Lin	617
A Parallelization Cost Model for FPGA D. Zhang, R.C. Zhao, L. Han and J. Qu	623
A Novel Preconditioned Conjugate Gradient Image Reconstruction Algorithm for Electrical Capacitance Tomography System Y. Chen, J. Cao and D.Y. Chen	629
Study on Transformation Rules of Diesel Fuels Contaminated Aquifer Z.H. Qu, Y.S. Zhao, B. Wang and L.N. Jiao	636
A New Optic Sensor for Real-Time Bath Temperature Measurement in a BOF M. Zhang, Y.R. Chen, L.F. Xu and Y.Q. Wang	642
Equidistant Five Wavenumbers Selection for NIR Spectroscopy Analysis of Glucose in Human Serum T. Pan, J. Xie, Y. Shan and H.Z. Chen	647
The Semantic Study on Infant Washing Product Based on Humanistic Care M. Yang, Y.J. Cai and X. Zhang	651
A Simple Method to Speed up the Calculation of a Computer-Generated Hologram H.S. Wang, H.F. Xia, Z.G. Zhou and X.Z. Jian	656
A Real-Time Algorithm for Convex Hull Construction and Delaunay Triangulation of Scattered Points Data X.M. He, Y. Lu, C.G. Li, M.M. Ni and C.L. Hua	661
A Concept Lattice Merger Approach for Ontology Construction B.C. Han, Y.J. Du, C. Wang and J. Xu	667

Formal Reconfiguration of Enterprise Information System Flow Based on OKM and Binary Tree	
C.G. Xue and H.W. Cao	673
Influences of Surfactants on Gloss of Aluminum Paste Printing Ink	
B. Du, S.S. Zhou and N. Wang	679
Lengthening Steel-Work Hole Processing Machine Design Based on Open CNC System	
S.K. Cao, S.W. Yang, J.B. Yin, H. Zhang and H.L. Deng	685
Study on Printing Techniques of Modified Aluminum Paste Printing Ink	
B. Du, S.S. Zhou and N. Wang	691
Weathering Effect on PE Coated with Thin Layer of PU/Nanosilica Composite	
C.Y. Chee and I.I. Yaacob	697
Hydrothermal Treatment of TiO₂ Nanotube Arrays with AgNO₃ Solutions and their Photocatalytic Properties	
Y.C. Wu, Y. Wang, J.W. Cui, G.Q. Xu and X.Y. Zhang	702
Effects of Pretreatment and the First Anodization Time on Morphology of Anodic Aluminium Oxide Templates	
Y.C. Wu, J.W. Cui, Y. Wang, G.Q. Xu and X.Y. Zhang	707
Waveband Selection of NIR Spectroscopy Analysis for Glucose Aqueous Solution Based on Savitzky-Golay Smoothing	
T. Pan, G.Q. Jiang and J.M. Chen	712
The Approximate Solution to the Finite Cantilever with Concentrate Load	
H.R. Liu	717
The Discriminate Condition for Foot-Cut of the Conjugation with Two Degrees of Freedom	
H.R. Liu	720
The Efficiency Formula for the Coupled Planetary Drive of Gear System	
H.R. Liu	726
Machining Posture and Movement Coupling of the 6-Axis Machining Stewart Robot	
H.R. Liu	731
The Theoretical Principle and Generate Method for the Spiral Bevel Gear with Circular Profile and Cycloid Teeth	
H.R. Liu	735
The Self-Organizing Modeling for NC Scheduling in Grid System	
Y.B. Luo	740
Comparable Experiments Study on the Embedded Optimization Methodology of Self-Organizing	
Y.B. Luo and M.C. Tang	744
Micromechanics Analysis of the Tensile Behavior of Twaron Fiber Tows at Various Strain Rates	
L.T. Zhu and B.Z. Sun	749
A Concept Lattice Merger Approach for Ontology Construction	
B.C. Han, Y.J. Du, C. Wang and J. Xu	754
An Effective Tabu Search for Vehicle Routing Problem with Pickup and Delivery Service	
Y.Y. Li and C.S. Liu	760
Voice Activity Detection Based on Multiple Statistical Models	
C.P. Ji, M. Gao and J. Yang	765
The Digital Watermarking Used to the Smart Power Grid Security	
X. Yan, J.G. Du and J.R. Li	770
Video-Based Automatic Incident Detection of Highway Network Monitoring System	
X.S. Fu and J. Zhu	776
Research on Variant Design of Parts Based on Tabular Layouts of Article Characteristics	
Y.J. Lu and G.W. Liu	782
Automotive Air Conditioning System Fuzzy Control Algorithm	
L.M. Hou and X. Xing	787
“Nonintelligective Factors Inducing Scenario” Teaching Paradigm Developed and Applied Research	
G. Xu, C.G. Zhao and Y.L. Xu	792
Study on Risk Assessment of Network Security Based on Game Theory	
Y.L. Xu and L.L. Wang	799

Ethylene Polymerization by Phenyl Sulfide Bridged Dinuclear Titanocene Complex/MAO Y.J. Nie and M. Yang	804
Ethylene Polymerization by Phenyl Sulfide Bridged Dinuclear Zirconocene Complex/MAO Y.J. Nie and M. Yang	809
Effects of Impact on the Failure of CFRP/Al Bonded Single-Lap Joints with Different Overlap Length Y.Y. Ma, K.F. Zhang, Z.J. Yang and Y. Li	814
Realization of Electronic Ticket Service System Based on JSP M.S. Li	820
A Kind of Copyright Protection Method Based on Computer Fingerprint M.S. Li	825
A Method Based on Support Vector Machine for Feature Selection of Latent Semantic Features M.S. Li	830
The Studying on the Influence of Coupling Agents to Short Glass Fiber Reinforced Polyamide Composites J. Liu and X.G. Liu	836
Explosive Consolidation and its Application on Preparing of Ultra-Fine Grained Tungsten Plasma Facing Material S.M. Wang, Q.Z. Yan, W.P. Shen and C.C. Ge	842
Numerical Simulation on Mass Transfer in Micro Electroforming with Ultrasonic M.H. Wu, L.B. Liu, Y.G. Wang and W.P. Jia	846
Application and Research on Warm Mix Asphalt in China C.H. Hu	852
Influence of Compression-Flexure to Shear Lag Effect of Box Beam Q. Su and Y.P. Wu	857
Study on Non-Equilibrium Grain-Boundary Segregation of Sulfur among Hastelloy X M. Yang and Y.J. Nie	861
Resource Allocation for Parallel Task in Grids J. Xie and M.H. Wu	866
Spin-Polarization Electronic Transport through a Quantum Dot in the Influence of Microwave Field Y.Q. Zhou, J.M. Yao, L.M. Kong and R. Wang	873
An Empirical Analysis on the Factors Affecting the Loan Size of the Construction of New University Campus Y.P. Wan, B. Xu and S.D. Li	879
Effect of Cutting Parameters on Dimensional Deviation and Surface Roughness in Machining 0Cr18Ni12Mo2Cu2 Steel R.T. Xia	884
Evaluating Freeway Traffic Conditions by Data Envelopment Analysis Using Loop Data S. Zhang and S. An	890
Study on a Sewage Heat Exchanger with On-Line Hydraulic Removing Fouling Technology Z.Y. Zhuang, C.H. Zhang, Q. Sun and D.X. Sun	896
A Subblock Matrix Approach to Data-Reduction in Gait Recognition X.Y. Ben, S. An, J. Wang and H.Y. Liu	902
Research on a Removing Fouling Technology for the Sewage Heat Exchanger Z.Y. Zhuang, H.X. Xiao, X.X. Liu and D.X. Sun	908
Acoustic Reconstructing Method in Prolate Spheroidal Coordinate System C.X. Zhu, S.Y. Wang and R.L. Yang	914
Research on Attitude Law of Mass Moment Missile Based on Multiple Control P. Wu, Q.C. Chen and J.D. Ning	919
Condition Number of Acoustic Infinite Element R.L. Yang and C.X. Zhu	926
Matrix Assembly Method for Insulating Glass Sound Transmission R.L. Yang and C.X. Zhu	932
A Modified Particle Swarm Optimization Algorithm Based on Proportional Distribution of Particles B. Liu and H.X. Pan	937

Algorithm Research and System Development on Free-Form Surface CNC Processing Parameters Automatically Determination/Equipment Selection/Process Management S.K. Cao, L. Song, Z.M. Sui, C.Z. Wu and J. Jia	943
Lexical Analyzer Development for Embedded Browser D.Y. Zhang	949
A Removal Modus of Thin Film Nanostructures via a Gear Form Tool P.S. Pa	955
Finite Deformation of a Class of Rubber Cylindrical Tubes Subjected to Axial Loads X.G. Yuan, W.Z. Zhang and H.W. Zhang	959
Design and Implementation of Angular Sensor in Radio Positioning System L.M. Fan, Y.H. Hu and P. Wu	965
Study on Recycling of Waste Styrofoam for Adhesive M. Yang, W.Y. Sui, Y. Qin and Y.J. Nie	975
Prediction of the Flow Stress of 00Cr17Ni14Mo2 Steel during Hot Deformation Using a BP Artificial Neural Network N.H. Hao and J.S. Li	979
Experimental Study on the Blanking of Thick Wall Metal Tube N.H. Hao and J.S. Li	983
A Fuzzy-AHP Method to Enterprise's Partner Selection under the Green Operation Strategy J. Cao, F. Tang and Q. Xu	987
Pumping Currents from Applying a Microwave Field and a Magnetic Field to a Quantum Dot Y.Q. Zhou, J.M. Yao, L.M. Kong and R. Wang	993
The Design and Application of UAV's Digital Steering Gear S.J. Xu, Y.H. Hu and W. Wan	998
A Distributed Bayesian Fusion Algorithm Research S.J. Xu, L. Hong and Y.H. Hu	1006
A Study on Machinability in Turning 1Cr18Ni9Ti Steel under Minimum Quantity Lubrication Machining R.T. Xia	1013
Research on the Scale Mark Characteristic of Start-Up Enterprise Social Network Evolution Map H.T. Peng	1019
Development of an Efficient Thermal Transfer Structure in Rapid Heat Cycle Molding Z.W. Fan, X.H. Ge, H.W. Huang and H. Li	1025
Why Can SVM Be Performed in PCA Transformed Space for Classification? J. Zhang, L.L. Bo, J.W. Xu and S.H. Park	1031
Forming Analysis and Die Design for the Bending Die for U Type Parts X.Z. Feng, D. Wang and H. Wang	1038
The Multilevel Programming and Solutions of Production Constitution in Oil-Field Development during Mid and Late Part S.B. Yuan and H.Y. Jiang	1044
A Study on Liaoning Ports Competition and Cooperation J.L. Ma and L.J. Qian	1050
The Effect of Nb-Ti on Cold Rolling Texture and Recrystallization Texture of B4003M Y.D. Liu and Y.Q. Yang	1054
A Method of the New Physical Training - The Living Creature Measures a Method's X.W. Li	1059
Application of Data Fusion Based on Least Squares in Sediment Concentration Data Processing M.T. Liu, L.B. Fu, Y.H. Xin and L. Li	1064
Study of Online Resources Data Mining Based on Association Rules X.F. Li	1069