

2010 International Conference on Computing, Control and Industrial Engineering

(CCIE 2010)

**Wuhan, China
5 – 6 June 2010**

**Volume 1
Pages 1 - 454**



**IEEE Catalog Number: CFP1062J-PRT
ISBN: 978-1-4244-6750-1**

2010 International Conference on Computing, Control and Industrial Engineering

CCIE 2010

Table of Contents

Volume - 1

Preface - Volume 1	xiii
Organizing Committee - Volume 1	xiv
Program Committee - Volume 1	xv
Reviewers - Volume 1	xvi

Volume 1

Selection and Comparison of Supervised Predictive Data Mining Models for Electronics Fabrication Data	3
<i>Chang-Xue Jack Feng, Liang Gao, Peigen Li, and Xinyu Shao</i>	
Domain Knowledge Engine Based on MAS	8
<i>Li Ren-guo</i>	
Fermenter Temperature Control Based on LSSVM and MPC	13
<i>Gang Yan, Ximing Liang, Shanchun Li, Wen Long, Zuqiang Long, and Xiang Li</i>	
The Design and Study of the Drainage Pipelines Dredging Robot	17
<i>Yuan Fucai and Wang Lizhu</i>	
The Calculation of Interference Density of the Control Rules	21
<i>Zhigang Li, Weijia Guo, and Wei Zhao</i>	
Study on the Energy Management Strategy of DCT-Based Series-Parallel PHEV	25
<i>Zhang Song, Wu Guangqiang, and Zheng Songlin</i>	
The Research of Adaptive PID for the Thin-Walled Cylinder TIG Welding Penetration Control	30
<i>Dai Kejie, Jiao Wentan, Wang Jincheng, and Zhang Fujun</i>	
Modelling of Membrane Fouling by PCA-PSOBP Neural Network	34
<i>Liu Zhifeng, Pan Dan, Wang Jianhua, and Yang Shuangxi</i>	

Genetic Algorithm on Solving Mould Enterprise's Job-Shop Scheduling Problem	38
<i>Zhifeng Liu, Linghao Liao, Wentong Yang, Jianhua Wang, and Yongsheng Zhao</i>	
The Design and Implementation of MDSS Based on Data Warehouse	42
<i>Huang Jinghua, Yuan Mei, Liu Xiaowei, and Shang Xinna</i>	
One-Dimensional Two-Fluid Model for Pneumatic Drying Wet Alumina Particle	46
<i>Xianxi Liu, Junruo Chen, Meihong Liu, Daigen Zhu, Rong Yi, and Guohong Liu</i>	
The Study of Quantitative Optimization Model for Value Chain Based on Activity-Based Cost and Profit	50
<i>Chongming Liu and Xiaoying Wang</i>	
Model Transformation from xUML PIMs to AADL PSMs	54
<i>Wei Zuo, Jinfu Feng, and Jiaqiang Zhang</i>	
Research and Realization on the Variant Design Method of Configuration Products	58
<i>Deng Wei-gang, Sheng Bu-yun, and Zhao Peng</i>	
A New Approach for Risk Analysis of Meteorological Factor	62
<i>Lihua Feng</i>	
Computerized Simulation of the Fluid Flow Field and the Temperature Field in a Twin-Wire Co-welding-Pool	65
<i>Shengmian Xie, Shisheng Huang, Pengcheng Zhao, and Yuanmei Wen</i>	
Numerical Scheme with ENO Reconstruction Satisfying Two Conversation Laws	69
<i>Chen Rongsan and Ma Qingxia</i>	
A Construction of A2 -Codes with Arbitration from Subspace of Vector Space over Finite Fields	72
<i>He Ya-Li and Guo Xiu-Ping</i>	
A Hardware and Software Cooperative Design of SoC IP	77
<i>Limin Liu</i>	
Advanced Manufacturing of China and Embedded Systems	81
<i>Limin Liu</i>	
IC Noise Image Recovery Based on Three-Dimensional Energy Optimization Modeling and Surface Fairing	85
<i>Liang Zhong-wei, Zhang Chun-liang, Jiang Fan, Ye Bang-yan, and Hu Xiao</i>	
Evaluation of Planar Straightness Error: Analysis on Convex Edge	89
<i>Jiang Meng and Kun An</i>	
Optimal Determination of Locator Layout Based on Hybrid Method of Empirical Analysis with Generic Algorithm	93
<i>Wu Tiejun, Lou Peihuang, Chenzhuo, and Wu Hongbing</i>	

Design and Finite Element Analysis of Permanent Magnet Synchronous Motor with Novel Magnetic Bridge	97
<i>Xianming Deng, Kang Wang, Shengzhu Xia, Ningning Li, and Kun Hu</i>	
An Integration Methodology Based on SOA to Enable Real-Time Closed-Loop MRP between MES and ERP	101
<i>Wang Meilin, Zhang Xiangwei, and Dai Qingyun</i>	
Performance Evaluation for CAST and RC5 Encryption Algorithms	106
<i>Tingyuan Nie, Yansheng Li, and Chuanwang Song</i>	
Study on Partner Selection for a Virtual Enterprise Based on Vague Sets	110
<i>Bin Huang, Chenghui Gao, and Liang Chen</i>	
The Identification of the Mineral Oil Fluorescence Spectroscopy Based on the PCA and SVM	114
<i>Gu Zhenpu and Lv Jiangtao</i>	
Virtual Prototyping Environment of Parallel Machine Base on Matlab and Ug	117
<i>Yan Hong-bo and Li Qiang</i>	
Key Solution to Coalmine Ventilation Network Graphics CAD	120
<i>Lu Gang, Hai Jiao, Han Ke-qi, and Sun Yu-bo</i>	
Research on K-means Text Clustering Algorithm Based on Semantic	124
<i>Yufang Liu, Shibin Xiao, Xueqiang Lv, and Shuicai Shi</i>	
Application of Grey Relational Comprehensive Evaluation Method in Project Investment Decision	128
<i>Wang Xinli</i>	
Study and Implementation of Ceramic Pattern Intelligent Design	132
<i>Hua Huang, Yi-Lai Zhang, and Xiang Yu</i>	
The Simulation of Internal Stresses of Injection Molded Crystalline Polymers during Cooling Stage	136
<i>Liu Ziran, Cai Gongxuan, and Wu Haihong</i>	
Blind DOA Estimation Based on JADE Algorithm in Multi-path Environment	141
<i>Zhao Jia and Yang Jing-shu</i>	
Fault Diagnosis and Simulation of Regenerative System Based on Fuzzy RBF	145
<i>Kuang Yin</i>	
Design and Analysis of 6KW Photovoltaic Power System	149
<i>Xinggui Wang and Yaowen Lu</i>	
Simulation Study of MPPT Strategy of Photovoltaic Grid-Connected Generation System Based on Single Parameter Control	152
<i>Yang Haizhu and Liu Jie</i>	
A Novel Economical Embedded Multi-mode Intelligent Control System for Powered Wheelchair	156
<i>Jizhong Liu, Hua Zhang, Bingfei Fan, Guanghui Wang, and Jonathan Wu</i>	

A New Method for Achieving a Basic Feasible Solution of a Linear Programming	160
<i>Liang Ping</i>	
The Inverse Problem of Linear Programming in Enterprise Management Innovations	163
<i>Liang Ping and Yan Nan</i>	
Modal Analysis and Dynamic Response Test of Floor-Type Boring and Milling Machine	166
<i>Wu You-De, Situ Yu, Yang Hao, and Li Bai-Lin</i>	
Research on Development Character of Middle and Small Size Fault Structure in DongPang Mine Field on Fractal Theory	170
<i>Sun Xue-yang and Xia Yu-cheng</i>	
The Product Innovation Design Based on User Needs	175
<i>Han Ji An</i>	
The Research and Application of Decoupling Dual Internal Model Control for Multivariable Time-Delays System	178
<i>Jin Qi-bing, Wang Zai-fu, Quan Ling, and Wu Deng-feng</i>	
Periodic Solutions for Coupled Van Der Pol Oscillators of Three-Degree-of-Freedom Solved by Homotopy Analysis Method	183
<i>Youhua Qian</i>	
Research on the Design and Control Strategy of Variable Inertia Flywheel in Diesel Generator Unit under Pulsed Load	187
<i>Li-Guo Yuan, Fan-Ming Zeng, and Guang-Xiao Xing</i>	
Optimal Iterative Learning Control for Nonlinear Discrete-Time Systems	190
<i>Hongwei Xu and Yanyan Huang</i>	
Research on Coupling Solution to Multi-vibration Points' Dynamics Response	194
<i>Ke Minyi, Chen Jie, and Jin Huazhong</i>	
Design of the Launching Equipment and Research on the Low Effect Launch	197
<i>Liwu Shao, Yanli Ma, Yi Jiang, Weichen Wang, and Xuewen Zhang</i>	
Study on the Rheological Property of the Raw Slurry in Solid-Liquid Phases Fluid	201
<i>Zhang Linxian</i>	
A Decomposition Algorithm for Bicriteria Job-Shop Scheduling Problem with Discretely Controllable Processing Times	204
<i>Ganggang Niu, Shudong Sun, Pascal Lafon, and Junqiang Wang</i>	
Simulation and Optimization of Carbon Enterprises Master Production Scheduling Based on Genetic Algorithm	208
<i>Yuan Qing-he, Wang Wei, and Dong Xue-fei</i>	
Study on Energy-Saving Control Strategy of Idling Stop System for City Bus	212
<i>Daxing Huang and Ren He</i>	

Approximation of Function in the Generalized Holder Metric	217
<i>Xiaoxia Wen</i>	
Rapid Control Prototyping of an Automated Clutch Using dSPACE and Matlab/Simulink	221
<i>Yong-Sheng Zhao, Zhi-Feng Liu, Wen-Tong Yang, and Li-Gang Cai</i>	
A High Accuracy Difference Scheme of the Convection Equation	227
<i>Haiyan Wei and Zuogang Zhang</i>	
Research on Fan Machinery Intelligence Fault Diagnosis System of Datum-Fusional Neural Network	231
<i>Lu Yanmin, Fang Kangling, and Zeng Yonglong</i>	
A Hybrid Algorithm for Scheduling of Dual-Resource Constrained Job Shop	235
<i>Jingyao Li, Shudong Sun, Yuan Huang, and Ning Wang</i>	
Dynamic Assessment of PFI Project Implementation Process	239
<i>Li Hai-ling and Liu Ke-jian</i>	
Flow Analysis of Solar Thermal Propulsion System	243
<i>Dai Jian-feng, Li Xing, Zhao Pei, Sun Yi-bin, Mu Xiao-wen, and Wang Jun-hong</i>	
Influence of Die Speed on the Energy Consumption in the Pelleting Process	247
<i>Wu Kai, Shi Shuijuan, Ding Wuxue, Peng Binbin, and Sun Yu</i>	
A Genetic Algorithm and Tabu Search for Multi Objective Flexible Job Shop Scheduling Problems	251
<i>Guohui Zhang, Liang Gao, and Yang Shi</i>	
Construction and Application of Preventive Maintenance Model about Fishing Vessel	255
<i>Mao Yuzhong and Yang Guangming</i>	
Lower and Upper Rough Submodules	259
<i>Gang Fang</i>	
The Research of Fault Diagnosis for Gasoline Engine Based on WP-GA -NN	263
<i>Li Tian, Lingchun Li, and Yunming Chen</i>	
Research on Robust Tracking Control of Networked Control Systems	267
<i>Wu Jian-Zhong, Lu Fei-Ping, and Chen Ji</i>	
Design and Experiment of a New Positive-Displacement Pump	271
<i>Jurong Liu and Xufei Wang</i>	
Robust Impulsive Control and Synchronization of Unified Chaotic System with Uncertainties	276
<i>Zheng Suwen, Yang Wanli, Huang Li, and Liu Junhong</i>	
Flow Shop Scheduling Problems with General Learning Effect under Dominant Machines	280
<i>Aihua Liu, Yunqiang Yin, and Junpo Jiang</i>	
Study on the Dynamic Pressure Modeling of High-Pressure Jet Homogenization	284
<i>Wu Xue, Zhang Shaoying, and Liu Bin</i>	

Design of Command and Dispatch System of Airport Support Vehicle	290
<i>Li-wen Wang, Jiang-long Wei, Xiao-lin Liu, Sheng-fei Liu, and Xu-dong Shi</i>	
Optimization Design of Following Penetrating Bomb Based on Improved Genetic Algorithms	294
<i>Cheng Yanrong, Xue Zhengyu, and Lu Tingjin</i>	
Design of a Hybrid Junction in a Transverse Electromagnetic Cell Testing System	298
<i>Changhua Liu and Zhong Wang</i>	
A New Method of Black Start Based on VSC-HVDC	300
<i>Li Li, Mingxia Zhou, Sheng Li, and Yinhui Li</i>	
Nondestructive Detection of Standing Trees and Radar Wave Detection	304
<i>Lin Gao, Jun Liu, and Huixia Xue</i>	
Intelligent Monitoring and Overheating Protection System for Motor	308
<i>Gaohua Liao and Junmei Xi</i>	
Design of Reusable Software for USB Host Driver in Embedded System	312
<i>Gaohua Liao, Quanguo Lu, and Weizhong Zhang</i>	
The Parametric Modeling and Optimization for Cutter Head of Shield Tunneling Machine	316
<i>Guoliang Hu and Xianjian He</i>	
Optimal Design of High Speed Angular Contact Ball Bearing Using a Multiobjective Evolution Algorithm	320
<i>Yu Wei and Ren Chengzu</i>	
Sub-rule Algorithm for Arrangement of Examination Rooms Based on the Examinee Proportion	325
<i>Yan Ma, Zhu-lin Li, and Wen-fa Wang</i>	
Study of Damage Predicting Model on Subsurface Engineering Structure	329
<i>Fengshan Wang, Hongjun Zhang, Wanhong Zhu, and Lina Zhao</i>	
Damage Information Fusion Model to Military Engineering Based on Intellectualized Structure	333
<i>Fengshan Wang, Hongjun Zhang, Wanhong Zhu, and Lina Zhao</i>	
Study of Requirement Design about Damage and Protection Simulation System to Warfield Target	337
<i>Fengshan Wang, Hongjun Zhang, and Wanhong Zhu</i>	
The Research of Workshop Scheduling for Job Production	341
<i>Xiaoqing Liu and Haining Tu</i>	
Compressed StreamCube: Implementation of Compressed Data Cube in DSMS	345
<i>Gan Liang, Li Runheng, Jia Yan, and Jin Xin</i>	
Hybrid Scheduling Technology for Emergency Production under Job-Shop Environment	350
<i>Li Jingsheng, Wang Aimin, and Tang Chengtong</i>	

The Parametric Design of Office Chairs Based on Ergonomics	355
<i>Wang Lili, Shang Tao, Yang Zheng, and Li Yixiong</i>	
Real Aircraft Navigation Data Statistic and Rule Analysis	361
<i>Xinsheng Li and Taiyong Li</i>	
The Incentive Mechanism Design of Modular Manufacture Based on the Task Correlation	366
<i>Peng Ben-hong and Zong Qi</i>	
Study on the Model and Improved Immune Algorithm for Vehicle Routing Problem with Backhauls	371
<i>Zhang Hai-gang and Wu Yan-Xiang</i>	
General Solution of a 2-variable Quadratic Functional Equation and Its Stability	375
<i>Jianbing Cao and Jingben Yin</i>	
Application of Dynamic Recurrent Neural Network in Power System Short-Term Load Forecasting	378
<i>Ge Chao, Zhang Jing-chun, Sun Yan-bin, and Sun Li-ying</i>	
The Design of the Collaborative Mobile Electronic Business Framework and Platform	382
<i>Wang Jing and Zheng Yuelin</i>	
A Study on Soccer Robot Path Planning with Fuzzy Artificial Potential Field	386
<i>Su Weijun, Meng Rui, and Yu Chongchong</i>	
Damper's Application Research in Structural Vibration Control	391
<i>Tian Penggang, Gao Zongqi, Lu Jianyong, and Wang Sheliang</i>	
Research on Computational Method of Structure Steady State Response	395
<i>Ma Shangjun, Liu Geng, and Shi Zhenzhen</i>	
Optimal Numerical Control of Volterra Integral Equations for a Regulated Risk Model	399
<i>Liu Zaiming, Li Manman, and Li Hui</i>	
Numerical Calculation of Torque Transmission and Magnetic Circuit Finite Element Analysis of a Magnetorheological Clutch	403
<i>Hou You Fu, Tian Zu Zhi, and Wang Nan Nan</i>	
Activation Function of Wavelet Chaotic Neural Networks	408
<i>Jia-hai Zhang and Hai-xia Chen</i>	
Forecast of Systemic Parameter Drift Based on Monte Carlo Simulation	412
<i>Wan Qing, Li Min, Duan Ping, and Li Jia</i>	
Multi-criteria Decision Making Based on PROMETHEE Method	416
<i>Sun Zhaoxu and Han Min</i>	
Two Generalizations of the (G'/G)-expansion Method and their Applications to Nonlinear Evolution Equations	419
<i>Sudao Bilige, Temuer Chaolu, and Wang Xiaomin</i>	

A Dynamic MAUT Decision Model for R&D Project Selection	423
<i>Zhong Wang, Shaonan Zhang, and Jianchao Kuang</i>	
Performance Analysis of Data Organization of the Real-Time Memory Database Based on Red-Black Tree	428
<i>Liang Qiaoyu, Li Jianwei, and Xu Yubin</i>	
Genetic Clustering Algorithm Based on Dynamic Granularity	431
<i>Jia Zhen and Wang Yong Gui</i>	
A New Method for Solving Nonlinear Forced Vibration System Response	435
<i>Jiao Chunwang, Liu Jie, Guo Dameng, and Wang Qianqian</i>	
Simulation Study of H_{∞} Control for Regenerative Braking of Electric Vehicle.....	439
<i>Zhang Chuanwei</i>	
The Modeling and Analysis of Asynchronous Motor Based on Matlab/Simulink	442
<i>Liu Genliang, Wang Xinjin, Yin Jun, Zhang Guoliang, and Wei Yunbing</i>	
Simulation and Research of Induction Motor Considering Iron Loss in Stationary Reference Frame	446
<i>Yin Jun, Lu Xiaoli, Wei Yunbing, and Cui Guangzhao</i>	
Author Index - Volume 1	450

2010 International Conference on Computing, Control and Industrial Engineering

(CCIE 2010)

**Wuhan, China
5 – 6 June 2010**

**Volume 2
Pages 1 - 453**



**IEEE Catalog Number: CFP1062J-PRT
ISBN: 978-1-4244-6750-1**

2010 International Conference on Computing, Control and Industrial Engineering

CCIE 2010

Table of Contents

Volume - 2

Preface - Volume 2	xiii
Organizing Committee - Volume 2	xiv
Program Committee - Volume 2	xv
Reviewers - Volume 2	xvi

Volume 2

Modeling and an ILP-Based Algorithm Framework for the Slab Stack Shuffling Problem Considering Crane Scheduling	3
<i>Huizhi Ren and Lixin Tang</i>	
A Discrete Time Retrial Queue with Retrial Due to Server Failures	7
<i>Zhang Mian and Hou Zhenting</i>	
Plasma Cladding of Ni60-SiC Cermet Coating on Hot Forging Die	12
<i>Chenggang Pan, Huachang Wang, and Jialin Zhou</i>	
The Optimal Selection of the Parameters for the Ant Colony Algorithm with Small-Perturbation	16
<i>Zhang Dan, Hua Hongyan, and Hua Yu</i>	
The Application of Rule-Based Genetic Algorithm in Job-Shop Production Scheduling	20
<i>Changshuan Zhang and Haining Tu</i>	
Data-Fusion Forecast Model of Missile Failure Time Based on Artificial Neural Network	24
<i>Liang Wang, Weimin Lv, and Shiwei Jiang</i>	
Design and Simulation of Fuzzy Self-Adjusting PID Controller	28
<i>Zhao Xin, Liu Jinhao, and Wang Dian</i>	

Analyze the Influencing Factors of Food Security by Bidirectional Analytic Hierarchy Process	32
<i>Jing Liu</i>	
Based on Process Neural Network Learning Algorithm for Prediction of Urban Water Consumption	34
<i>Yongchang Ren, Tao Xing, Xiaoji Chen, Xu E, and Ying Zhao</i>	
Decision Problems in Autoepistemic Logic	38
<i>Wei Gong and Jie Zhou</i>	
Application of Fuzzy Comprehensive Evaluation on Choosing Concrete Water Reducing Admixture	41
<i>Zhao Yu, Wang Yong, and Zhang Jianwei</i>	
Objective Evaluation of Knitted Yarn Quality Based on Fuzzy Kernel C-Means	45
<i>Liu Hao, Qiu Guan-xiong, Li Xiao-jiu, Cheng Ling, and Wang Yuxiu</i>	
Quality Grade Recognition of Knitted Yarns by Support Vector Machines	49
<i>Liu Hao, Qiu Guan-xiong, Li Xiao-jiu, Cheng Ling, and Wang Yuxiu</i>	
A Survey of Estimations of Dynamic Discrete Choice Models	52
<i>Wang Zhen Lei and Qin Song</i>	
Integral Expression Form of Admissible Linear Estimators of Effects in Linear Mixed Models	56
<i>Wang Shiqing, Ma Ying, and Feng Zhijun</i>	
An Open-Loop Characteristic Testing System of Coriolis Mass Flowmeter Based on Virtual Instrument Technology	61
<i>Chen Kun, Zheng Dezhi, Zhao Jianhui, and Fan Shangchun</i>	
Generalized Wronskian Solutions for a Non-isospectral MKdV Equation	65
<i>Yuanyuan Zhang</i>	
Tianjin Eco-environmental Pressures and Economic Growth on the EKC Curve Analysis	68
<i>Li Jian and Zhang Shanshan</i>	
OGC Web Service Interoperability Based on SVM	72
<i>Chen Hongying</i>	
Portable Calibration System for Air Traffic Control Surveillance Radar	76
<i>Chen Zhu and Xiaofeng Shi</i>	
Information Technology, Decision-Making Mechanism and Selection of Decision-Making Mode	81
<i>Libo Fan and Yongzhi Wu</i>	
Torque Behavior of Electric Vehicle Change Mode Drive System	87
<i>Zhang Lipeng, Qi Bingnan, and Lin Cheng</i>	
A Virtual Design and Manufacturing System for Cam	91
<i>Liu Han and Ping He</i>	

Application of Adaptive Fuzzy Sliding Mode Controller in PMSM Servo System	95
<i>Shanmei Liu and Lijie Ding</i>	
A PLC-Based Control System in Wheelset Disassembly Machine	99
<i>Xiao Jun and Ma Wen</i>	
The Optimization on Transport Modes for China Coal Corridor Based on the Dynamic Programming	103
<i>lv Liang, Xu Qi, and Jin Zhihong</i>	
Finite Element Analysis on Frequency Characteristic of Elastic Tube Containing Fluid Flow	107
<i>Shaojie Qiao, Dezhi Zheng, Shangchun Fan, and Guangyu Liu</i>	
Digital Image Magnification with Improved Anisotropic Diffusion	111
<i>Yi-An Chen</i>	
Dynamic Programming of Maintenance Support Resources in the War	114
<i>Bu Guo-feng, Han Li-jia, and Tian Wei-feng</i>	
The Study on the Optimization and Application of the Modification Parameters of Toroidal Worm-Gearing	118
<i>Xu Hua, Wen QingMing, Zhou LiangYong, and Tang WeiXiang</i>	
Hybrid Fuzzy Vector Control for Single Phase Induction Motor	122
<i>Ding Wang</i>	
Application of Rough Set and Fuzzy Comprehensive Evaluation Method in Water Quality Assessment	126
<i>Dong Deng and LI Yi-Jie</i>	
PML Condition for the Numerical Simulation of Acoustic Wave	129
<i>Xing Li</i>	
Reverse Engineering and Its Application in the Mold Manufacturing	133
<i>Kai Sun and Jing Wang</i>	
The Multi-reciprocating Pump Synchronization Control Based on Coupling Compensation	135
<i>Ling Xue-qin, Shen Dong-Kai, and Liu Jie</i>	
Control System Based on Fieldbus for the Workshop of Unloading Coal Precipitator	140
<i>Zi-sheng Zhang, Chao Cui, Qing Hao, Qiang Liu, Ji-guang Wang, Zhi-qiang Liu, and Qing Li</i>	
Design and Application of Rough Controller in Three-Tank System	144
<i>Pan Aixian and Gao Yun</i>	
Stress Concentration Numerical Analysis of a Panel with Big Grooves	149
<i>Huang Ning, Huang Ming-hui, and Zhan Li-hua</i>	
Application of Visualization Technology in Spatial Data Mining	153
<i>Xiao Qiang, Yan Wei, and Zhang Hanfei</i>	

Research on Benefits Distribution Model for Maintenance Partnerships of the Multi-core-Type MPN	158
<i>Shuili Yang, Taofen Li, and Yao Yao</i>	
Evaluation on Sustainable Development Ability of Urban Road Transportation in Shandong Province	162
<i>Sun Ye and Li Guiyan</i>	
A Colored Pencil-Drawing Generating Method Based on Interactive Colorization	166
<i>Dang-en Xie, Yaguang Xuan, and Zhili Zhang</i>	
The Application of Genetic Algorithm for the Segmentation of Measured Image of Waste Wood Material Connectors	170
<i>Zhu Yujun, Kan Jiangming, Liu Jinhao, and Zhang Derong</i>	
Compare the Starting Methods of the Position-Sensorless BLDC Motor	175
<i>Zheng Anping and Wang Jian</i>	
The Virtual Experiment System of Sucker-Rod Pumping Development and Its Application	178
<i>Wang Fuyu and Chen Guoming</i>	
Optimization of Job-Shop Scheduling Using Fuzzy Heuristic Algorithm for Discrete Manufacturing Enterprise	182
<i>Fu Xiuli, Wanghui, Zhang Chengxiang, and Zhao Lin</i>	
Research on Predictive Model Surface Roughness in High Speed Milling for Aluminum Alloy 7050-T7451	186
<i>Fu Xiuli, Pan Yongzhi, Wan Yi, and Ai Xing</i>	
A Practical Study on Geographic Semantic Web Services Based on OWL-S	190
<i>Peng Shuang-yun, Ma Wei-feng, Yang Kun, Xu Quan-li, and Huang Bang-mei</i>	
A Study and Design of Web Information Search Model Based on Mobile Agent	195
<i>Sun Yuyu, Hu Liang, and Zhao Kuo</i>	
An Effective Bottleneck Detection Method for Job Shop	198
<i>Yingni Zhai, Shudong Sun, Junqiang Wang, and Meng Wang</i>	
The Numerical Analysis of Two-Pile Foundation under the Influence of Shield Tunneling Nearby	202
<i>Zhao Zhi-feng</i>	
Modeling Study on the Implementation of the VMI in a Two-Echelon Supply Chain	206
<i>Hong Jiang-tao and Yang Xiao-yan</i>	
Rescaled Range Analysis and Mineralization Information Extraction	210
<i>Li Wan, Jun Deng, Xiaocheng Deng, Qingfei Wang, and Jiaoxiu Ling</i>	
The Application of Uniform Design on Minesweeping Effectiveness Forecasting Model Based on Neural Network	214
<i>Meng Jing, Li Qingmin, and Liu Jun</i>	

Effect of Managerial Discretion on CEO Compensation in Industrial Firms: A Literature Review	218
<i>Zhang Changzheng and Zhao Xiping</i>	
Numerical Simulating for Backward Facing Step Particle Laden Flow Using Anisotropic PDF Mode	222
<i>Ping Zhang, Jiangrong Xu, and Ning Ding</i>	
Numerical Simulating for Coupling Heat-Transfer from Automobile Exhaust Gases to Thermoelectric Material Pipe	226
<i>Jiangrong Xu, Bin Liu, Bo Li, and Chenkui Ming</i>	
A Vestibular System Model for Robots and Its Application in Environment Perception	230
<i>Yifei Chen, Chengju Liu, and Qijun Chen</i>	
Design and Development of Embedded Intelligent Public Transport Vehicular Terminal	236
<i>Changsheng Zhu, Jianbo Liang, Xugang Miao, and Wenyi Feng</i>	
The Result of Selective Law Enforcement: Based on the Dynamic Game Analysis	240
<i>Yubin Zhang and Yunhui Zhang</i>	
Studies of Effect of Surfactants on Properties of Slag Cement Mortar	244
<i>Tian Jian, Wang Jindi, and Wei Tao</i>	
An Ant Colony Algorithm for Text Clustering	249
<i>Chen Liang</i>	
U-shaped Part Springback Forecasting Based on the Finite Element Method and the Neural Network	253
<i>Wu Jianxin and Yang Xiaojun</i>	
Application of Neuron Adaptive PID on DSPACE in Double Loop DC Motor Control System	257
<i>Tao He and Luntian Peng</i>	
An Applied Research on NGN Technology in Shipbuilding--As an Example of Zhejiang Shipyard	261
<i>Yang Guangming and Liu Wei</i>	
Topological Properties of Rough Approximation Operation Based on IF Sets	265
<i>Kaiwen Guo</i>	
The Variable Frequency Data Transmission Technology Based on Artificial Neural Network Applying in Measurement while Drilling System	268
<i>Xinping Liu, Youhai Jin, and Jun Fang</i>	
Vehicle Stability Control Based on CHNN	272
<i>Gao Hanwen, Wang Guolin, Fang Chao, and Gao Laisheng</i>	
Periodic Solution of First-Order Differential Equation with Impulses	276
<i>Lianhua He, Qingxia Ma, and Anping Liu</i>	

Research on the Dual Meshing Silent Chain Drive	280
<i>Xue Yunna, Shen Xuehui, and Wang Yong</i>	
Research on Process Modeling for Simulation and Execution	284
<i>Linyan Liu, Huifen Wang, and Tingting Liu</i>	
Stability of a Nonautonomous Two-Species Diffusive Model with Discrete Delays	288
<i>Zutao Hao, Anping Liu, Xinlei Yi, and Longmei Zhang</i>	
The Development of Visual Attention Controlling Aged from Children to Adult and Its Effect on Interface Design	292
<i>Jing Chenghong, Zhang Xingli, Shi Jiannong, and Liu Tongran</i>	
Oscillation of Nonlinear Impulsive Parabolic Equations of Neutral Type	296
<i>Ting Liu, Xinlei Yi, Huijuan Li, and Anping Liu</i>	
Existence of Solution for Impulsive Cellular Neural Networks	300
<i>Li Xiao, Min Zou, Qingxia Ma, and Anping Liu</i>	
Application of QPSO Algorithm in Aeroengine Maximum Thrust Optimization	304
<i>Xiaoping Wang, Fawei Wang, Jianping Xue, and Fei Li</i>	
The Application of Intelligent Control Technology in Creative Design of Furniture	307
<i>Haiyan Duan, Burenwuliji Bai, and Ying Wang</i>	
Mental Fixation in Product Design	311
<i>Zhang Lujun and Zhang Chunping</i>	
Study on an Electric Drilling Rig with Hydraulic Energy Storage	315
<i>Zhang Lujun</i>	
Evaluation of Tube Formability in Hydroforming by Artificial Neural Network	319
<i>Zhang Yong and Zhang Hongqi</i>	
Research on PID Control Parameters Tuning Based on Election-Survey Optimization Algorithm	323
<i>Lv Wenge, Li Deyuan, Cheng Siyuan, Luo Shaoming, Zhang Xiangwei, and Zhang Linhai</i>	
Study on Cutting Temperature and Wear Mechanism of Tool in High Speed Turning Superalloy GH2132	327
<i>Liu Chao and Ai Xing</i>	
FCM Algorithm Based on the Optimization Parameters of Objective Function Point	331
<i>Qi Zhao, Guijuan Li, and Shuxia Xing</i>	
The Design and Implementation of High-Speed Data Acquisition System Based on NIOS II	334
<i>Wang Wei and Zhong Guidong</i>	
Complex Event Processing System for Wireless Sensor and Actor Networks	337
<i>Peng Li and Wang Bingwen</i>	

Finite Element Analysis of High Glass Fiber Reinforced Polymer Chimney	341
<i>Wang Yingjun, Li Zhuoqiu, Zhu Sirong, and Zhang Xiaoyu</i>	
The External Penalty Function Method for Optimization Design of Reinforced Concrete Underground Penstock	345
<i>Wang Yingjun and Sun Mingqing</i>	
Fuzzy Synthetic Evaluation of Public Crisis Management Capability	348
<i>Dai Bibo</i>	
Enterprise Environmental Management Innovation and Resource Flow Accounting under a Recycling Economy	351
<i>Zhifang Zhou and Youliang Jin</i>	
Evaluation Model of ERP Enterprise Management Effectiveness Based on Structural Equation Theory	355
<i>Yao De-li</i>	
Research on Indoor Wireless Localization System for Radioactive Sources Based on ZigBee	359
<i>Ruixue Li, Zhiyi Fang, Baocong Hao, and Fengjie Yang</i>	
Natural Boundary Element Method and Its Application in Grouting Boreholes Design	363
<i>Weihong Peng, Zhengzhu Dong, Guohua Cao, and Jie Zhou</i>	
Modeling and Natural Frequency Characteristics of Coupled Vibration with Varying Length of Hoisting Rope in Drum Winding System	367
<i>Guohua Cao, Zhencai Zhu, Weihong Peng, and Xianbiao Mao</i>	
The Measurement and Decision-Making in the Risk Management of Information-Sharing on the Supply Chain	371
<i>Liu Jin and Wang Xue-Jun</i>	
Analysis on the Performance of Strategic Alliance and its Implementation Strategy	375
<i>Yu Zhongdong</i>	
Adaptive Fuzzy Control System for Electric Discharge Machining Aided Tool Ultrasonic Vibration	379
<i>Li Li and JianHua Zhang</i>	
On the Stability of a Linear Functional Equation in Generalized quasi-Banach Spaces	382
<i>Jianbing Cao and Baolin Ma</i>	
Research on the Countermeasures of CDM Projects Development in Building Energy-Saving	386
<i>Liu Doudou</i>	
Novel Integral Sliding Mode Variable Structure Control of High Precision LOS Stabilized Platform with Nonlinear Interference	390
<i>Zhou Yang and Wang Lei</i>	

Prediction of Total Power of Agricultural Machinery Using Artificial Neural Networks	394
<i>Qinghui Lai, Haiye Yu, Haitao Chen, and Yong Sun</i>	
Research on Metal Flow Behavior and Forming Force in Sheet Metal Extrusion Process	397
<i>Xincun Zhuang, Hua Xiang, and Zhen Zhao</i>	
Optimal Control of (Q, r) Inventory System with Service Level Constraint	401
<i>Mei Wanxia and Ma Shihua</i>	
A Static Environment-Based Path Planning Method by Using Genetic Algorithm	405
<i>Zhigang Yao and Lianyang Ma</i>	
A Modified Algorithm for DOA Estimation of Coherent Signal with SVD	408
<i>Yang Qi, Huang Dengshan, and Jiang Wen</i>	
Two Kinds of Hypercomplex Numbers	412
<i>Yun'e Gao and Xuegang Yu</i>	
Application of Pulse Coupled Neural Network in Image Recognition	415
<i>Shuiming He, Dianhong Wang, and Yanbin Nin</i>	
Application of Support System for Double Cantilever Piles in Deep Foundation Pit	420
<i>Su Qi, Daming Ding, Xingxing Chen, Shuiming He, Weina Lu, and Lei Ming</i>	
Study on Cable-Stayed Bridge Flutter Active Control by a Single Group of ADM	426
<i>Su Qi, Weina Lu, Peng Chen, Lei Ming, Daming Ding, and Jian He</i>	
An IT Governance Framework of ERP System Implementation	431
<i>Huo Lingyu, Liu Bingwu, Yuan Ruiping, and Wu Jianzhang</i>	
Revenue Sharing Contract of Supply Chain with Fuzzy Linear Demand	435
<i>Huo Lingyu, Liu Bingwu, Yan Fang, and San Shenju</i>	
Tracking a Variable Number of Targets in Acoustic Sensor Networks by Particle Filter	441
<i>Hongbo Zhou, Jianqiang Zhang, Changfeng Xing, and Yuanguo Cheng</i>	
Study on Multidisciplinary Hierarchic Optimization Method	445
<i>Zhanjun Cai</i>	
Author Index - Volume 2	449