Papers of the 2010 International Conference of Information Science and Management Engineering: Volume 1

The Research on Carbon Enterprises Shop Scheduling Based on Genetic Algorithm

Qing-he Yuan, Wei Wang, and Xue-fei Dong

Mond–Weir Type Duality in Nondifferentiable Fractional Programming with Generalized Convexity

Yong Yang, LiHua Liu, and TieYan Lian

Protection Mechanism for Development of Warrants from the Accounting Management Aspects

Chen Hongming and Xiong Jing

Investigation on the Extraction of Soybean Brown Spot Based on Improved Genetic Algorithm

Xiao-dan Ma, Hai-ou Guan, and Fen Tan

The Core of Convex Multi-choice Cooperative Games with a Priori Unions

Ma Limin and Gao Zuofeng

Fε-convex Function and Fractional Semi-infinite Programming

Yong Yang

Design of Meter Information Module for City Buses

Zheng Xiao and Quan Liu
Mining Web Log Sequential Patterns with Layer Coded Breadth-First Linked WAP-Tree .............................................................. 28
Lizhi Liu and Jun Liu

Application of Data Mining in the Inquiry System of Dangerous Chemicals ........................................ 32
Li Xin

A Novel Web Page Watermark Scheme for HTML Security ...................................................... 35
Cong Jin, Min Pan, and Dan Zhang

Chinese Text Information Hiding Based on Paraphrasing Technology ........................................ 39
Cong Jin, Dan Zhang, and Min Pan

Adapting Service-CMM to Risk Management Improvement in ERP II Project ............................ 43
Wang Huifen

Research on Construction Strategy of Enterprise Information Sharing in Supply Chain ................. 49
Zhi-tao Du and Xin-zhou Xie

The Disjoint Paths in Enhanced Hypercube ................................................................. 54
Yanjuan Zhang and Hongmei Liu

The Design of the Black and White Lists about the Telephone .............................................. 57
Fu Guangchun, Kong Xiaohong, Zhang Wei, Chen Yanfeng, and Du Liufeng

A Study on the Hybrid Encryption Technology in the Security Transmission of Electronic Documents ........................................ 60
Xinli Hu and Lianjie Ma

Image Watermark Algorithm for Copyright Protection Based on Human Visual System ................................. 64
Cong Jin and Shu-Wei Jin

Design of the Phone Intelligent Dialing Controller .............................................................................. 68
Fu Guangchun, Kong Xiaohong, Zhang Wei, Chen Yanfeng, and Du Liufeng

Another Efficient Proxy Signature Scheme in the Standard Model .............................................. 71
Jianhong Zhang and Xue Liu

Calculating the Leaf-Area Based on Non-loss Correction Algorithm ....................................... 75
Tan Feng and Wang Chun

The Construction of Knowledge Management System and Model in Electric Power Enterprises ........................................ 79
Li Jie, Li Gang, and Miao Xin

Framework Design of Changjiang River Water Traffic Safety Management Information Platform ........................................ 85
Li Cheng and Liu Qing

The Innovation Business Model of Blogs: Crowdsourcing on Web Content Producing ........................................ 89
Tingting Tan

Neural Network Based Automatic Fingerprints Classification Algorithm .................................. 94
Xiangrong Li, Guohui Wang, and Xiangjiang Lu
Fingerprint Identification and its Applications in Information Security Fields ..................................................97
   Shihai Zhou and Xiangjiang Lu
A Study on Emotion Classification of Image Based on BP Neural Network ......................................................100
   Jijun Wang and Bo Liu
A Provably Secure Threshold Ring Signature Scheme in Certificateless Cryptography .................................................105
   Huaqun Wang and Shengju Han
Research of Distributed Parallel Information Retrieval Based on JPPF .................................................................109
   Jing Xiong, Jianliang Wang, and Jianliang Xu
Study on Key Technologies of MANET ..................................................................................................................112
   He Zhonglin and He Yuhua
Fuzzy Adaptive Control for a Class of Uncertain Systems with Time-Delay ............................................................116
   Shuaitian He and Shuang Zhang
Requirements Engineering Based on Domain Ontology ..........................................................................................120
   Li Shunxin and Shi Leijun
The Prediction of Regional Logistics Scale Based on Grey System Theory .............................................................123
   Tong Daxin and Sun Xu
Modeling Via Pro/Toolkit by Sharing Rolling Bearing Design Data ........................................................................127
   Chen Long, Qiu Ming, Xia Xintao, and Zhang Hui
System Design of Image Gathering and Saving Based on Embedded Technology ..................................................131
   Huilin Zhang, Huihong Xue, and Wei Wang
A Study on Intrusion Detection Based on Data Mining ............................................................................................135
   Song Naiping and Zhou Genyuan
Application Research on Frequency-Division Multiplexing to Chaos Secret Communication ..................................139
   Danhui Wu
Comprehensive Evaluation Based on Gray Relation Analysis for Information Security Management Measurement ....143
   Xi-quan Guo, Wei-qi Luo, and Guo-xiang Yao
Research on Chaotic Synchronization Self-Maintenance Characteristic .................................................................147
   Danhui Wu
Comprehensive Safety Management System in Subway Operation System .............................................................151
   Dai Baoqian and Wang Tong
Research on Chinese Toponym Ontology Model ....................................................................................................154
   Fangling Jiang and Wenjun Wang
Traffic Flow Forecasting Based on PCA and Wavelet Neural Network .................................................................158
   Gao Guorong and Liu Yanping
Study of Software Reliability Test Application Framework ..................................................................................162
   Yumei Wu and Zhengwei Yu
What Drives Mobile Office Service? A Revised Technology Acceptance Model Based on the Characteristics of Wireless Mobile Office Technology ................................................................. 166
   Hao Tian, Dongsheng Liu, Jianming Lin, and Yongqin Jin
Research and Development on a Web-Based Project Cost Integrated Management System ......................................................................................................................... 171
   Yong Liu and Sen Xu
Establishing Customers’ Beer Tastes Analysis Model on the Basis of Fuzzy Neural Network Simulation .......................................................................................................................... 177
   Jun-qi Yang, Xia Gao, Li-jia Chen, and Jun-mei Li
Research on Cylindricity Error Calculation Based on Improved GA ................................................................................................................................. 181
   Xiaoming Qian and Peihuang Lou
Analysis on Performance Evaluation System of ERP Implementation ......................................................................................................................... 185
   Guanghui Chen and Jingjing Wang
The Selection of Construction Material Suppliers in Supplier Relationship Management (SRM) ............................................................................................................................. 189
   Ma Lu and Yang Geyao
An Adaptive Heterogeneous Multiple Ant Colonies System ................................................................................................................................. 193
   Peng Zhang and Jie Lin
The Empirical Analysis for Determination of Optimal Capital Structure ................................................................................................................................. 197
   Yanyan Wu
The Design and Implementation of Web-Based EPC Innovative Management Informationization ............................................................................................................................. 201
   Wu Yunna, Li Jiangshuai, and Wang Jiali
Application Layer Information Forensics Based on Packet Analysis ................................................................................................................................. 206
   Ruining Guo, Tianjie Cao, and Xuan Luo
A Financial Risk Identification Matrix Model of Enterprise ..................................................................................................................................................... 210
   Feng Ziqin
Research on Software Project Management Pattern What Based on Model-Driven ................................................................................................................................. 214
   Zhao Likun
Supply Chain System for Emergency Rescue of Natural Disasters ................................................................................................................................. 218
   Weihui Dai, Hongwei Yan, and Xiaoqi Liu
Research on Model Free Adaptive Control Method of Thermal Power Unit ................................................................................................................................. 222
   Zheng Enrang, Zhong Ling, and Gao Fei
Multiple Classifiers Combination Model for Fault Diagnosis Using Within-class Decision Support ................................................................................................................................. 226
   Jiangtao Huang and Minghui Wang
An Area Concept Extraction Algorithm Based on Association Rule ................................................................................................................................. 230
   Qing Yang, Kai-min Cai, Yan Li, and Rui-qing Liu
Studies on the Semantic Body-Based Spam Filtering ..................................................................................................................................................... 233
   Qiu-yu Zhang, Hui-juan Yang, Zhan-ting Yuan, and Jing-tao Sun
A Fast-Stable Optimization Algorithm for Multi-objective Population Migration
Qifang Luo, Yongquan Zhou, and Shengyu Pei

Improving Incremental Diagnosis with Choosing Measurement Order
Xiangfu Zhao and Dantong Ouyang

Realization and Optimization of Face Detection Algorithm Based on DSP
Ling-bin Kong, Jin-ye Peng, Zhao-qiang Xia, Yu Lian, and Shao-chong Fan

Research on Combination Policy of Information Transmitting Channels in the Visual Angle of Topologic Homotopy
Qizhi Sheng and Sui Dou

Vehicle Scheduling Problem for the Single-Depot Based on Genetic Algorithms
Chun-qiu Xu, Hua Xuan, Bing Li, and Fang-fang Su

Internet Public Opinion Hotspot Detection and Analysis Based on Kmeans and SVM Algorithm
Hong Liu

Simulation Analysis for Steering Mechanism of Solar-Powered Electric Vehicle
Jia Qian and Zheng Zhong

Knowledge Management Analysis Framework Based on WSR System Methodology
Su Huishuang

Data Acquisition Interface Design and Implementation of Diode Testing Equipment
Song Haijun and Zhou Tong

Forecast to Textile and Garment Exports Based on Holt Model
Li Xia, Guo Yaomei, and Song Weiwei

The Grey Correlation Degree Analysis on Industry Structure and Economic Growth in Henan Province
Yan-li Liu and Hui-ping Mu

Forecasting Model on General Budget Revenue of Regional Finance Based on Dynamic Combination of BP Neural Network
He Mao, Dongsheng Liu, Yongqin Jin, and Jianmin Lin

Automatic Generation of Markov Models in Safety Instrumented Systems with Non-identical Channels
Hao Yang and Xianhui Yang

Design of the Low-Cost Business Intelligence System Based on Multi-agent
Yong Feng, Yang Liu, Xue-xin Li, Chuang Gao, and Hong-yan Xu

Analysis on Knowledge Framework and Development Trend of the Presale Services
Fei-long Chen
The Product Safety Stock Prediction Method Based on Artificial Neural Network

Ping Zhao and Jingjing Liu .................................................................................................................................................................. 299

The Management of Engineering Equipment Based on the Virtual Reality Technology

Yue-guo Shen, Xiao-qi Li, Jian Wang, and Xi Wang .................................................................................................................................................. 303

Fuzzy Comprehensive Evaluation on Supply Chain Based on E-commerce

Wu Qunli and Jia Xiaoge ........................................................................................................................................................................... 307

Short-Term Power Load Forecasting Based on LS-SVM

Liu Bin and Xu Guang .................................................................................................................................................................................. 311

Based on Wireless Network Technology, Production and Sales Management of Retail ERP

Liu Bin and Xu Guang .................................................................................................................................................................................. 315

Analysis of Love-Hate Shilling Attack Against E-commerce Recommender System

Fuguo Zhang ........................................................................................................................................................................................................ 318

Application of Artificial Intelligence Technology in Water Resources Planning of River Basin

Zhengfa Chen and Guifeng Liu ................................................................................................................................................................. 322

Application of Information Construction in Highway Tunnel

Zhengfa Chen and Guifeng Liu ................................................................................................................................................................. 326

Cerberus: A Novel Hypervisor to Provide Trusted and Isolated Code Execution

Wen-Zhi Chen, Zhi-Peng Zhang, Jian-Hua Yang, and Qin-Ming He ........................................................................................................................................... 330

Using Rough Set in Assessing Website’s Service Quality

Jimei Li ................................................................................................................................................................................................................. 334

A Study on the Contextual Performance Management of Civil Servants Based on the Perspective of Game Theory

Xiuli Wang and Hailong Zhang .................................................................................................................................................................. 339

Mining the Factors Affecting the Quality of Wikipedia Articles

Kewen Wu, Qinghua Zhu, Yuxiang Zhao, and Hua Zheng ........................................................................................................................................ 343

Comprehension and Implementation of Reliability Enhancement Testing for Ammunition

Zhi-feng Fan, Xing-lin Qi, Jia-kai Liu, and Bin Lei ........................................................................................................................................ 347

Research and Realization of Automatic Testing in the Application Software

Xiao-yun Jia and Si-hui Li ........................................................................................................................................................................ 351

A Framework for Web Service Optimal Selection Based on Business Restriction

Fuzhen Sun and Yan Li .................................................................................................................................................................................. 354

Research on Extension and Matching of Web Service Agreement

Fuzhen Sun and Jianfang Wang .................................................................................................................................................................. 358
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamic Web Services Composition Based on Linear Temporal Logic</td>
<td>362</td>
</tr>
<tr>
<td>Shengang Hao and Li Zhang</td>
<td></td>
</tr>
<tr>
<td>Numerical Simulation on Low-Pressure Ejector’s Performance Influenced</td>
<td>366</td>
</tr>
<tr>
<td>Liu Jiayou and Ni Lili</td>
<td></td>
</tr>
<tr>
<td>SVM-PHM: A Novel Method for Remaining Useful Life Prediction</td>
<td>369</td>
</tr>
<tr>
<td>Feng Tianle and Zhao Jianmin</td>
<td></td>
</tr>
<tr>
<td>Study on an Extended Web Advertising Placement Problem</td>
<td>373</td>
</tr>
<tr>
<td>Lei Liu and Lihua Zhang</td>
<td></td>
</tr>
<tr>
<td>Quality Cost Analysis of Packaging Machinery Based on Extended QFD</td>
<td>378</td>
</tr>
<tr>
<td>Lin Zhang, Meiyun Zhang, and Yangyu Wu</td>
<td></td>
</tr>
<tr>
<td>Multi-receiver Identity-Based Key Encapsulation in the Standard Model</td>
<td>382</td>
</tr>
<tr>
<td>Yang Ming and Xiaqin Shen</td>
<td></td>
</tr>
<tr>
<td>A Method to Streamline the TCP/IP Protocol Stack at Embedded Systems</td>
<td>386</td>
</tr>
<tr>
<td>Jiang Xingguo, Qi Yulin, and Yang Jiancheng</td>
<td></td>
</tr>
<tr>
<td>The Minimax Principle of Non-cooperative Games with Fuzzy Payoffs</td>
<td>390</td>
</tr>
<tr>
<td>Yan Sun and Cun-lin Li</td>
<td></td>
</tr>
<tr>
<td>Semantic Retrieval for Sports Information Based on Ontology and SPARQL</td>
<td>395</td>
</tr>
<tr>
<td>Jun Zhai and Kaitao Zhou</td>
<td></td>
</tr>
<tr>
<td>Semantic Retrieval Based on SPARQL and Fuzzy Ontology for Electronic</td>
<td>399</td>
</tr>
<tr>
<td>Commerce</td>
<td></td>
</tr>
<tr>
<td>Jun Zhai and Yamei Song</td>
<td></td>
</tr>
<tr>
<td>Network Flow Analysis by Statistics and Forecasting for Campus Beverage</td>
<td>403</td>
</tr>
<tr>
<td>Yan-ping Meng, You-Fang Huang, and Xiao-Hu Xing</td>
<td></td>
</tr>
<tr>
<td>Research on Path Scheduling Model and its Stochastic Evolutionary</td>
<td>407</td>
</tr>
<tr>
<td>Xiao-Hu Xing, Zhi-Hua Hu, Bin Yang, and Yan-Ping Meng</td>
<td></td>
</tr>
<tr>
<td>A New Cross-Language Commodity Information Retrieval Approach in Book</td>
<td>411</td>
</tr>
<tr>
<td>Searching</td>
<td></td>
</tr>
<tr>
<td>Liyi Zhang, Zhenyun Zhang, and Yi Zhang</td>
<td></td>
</tr>
<tr>
<td>Construction and Application of Performance Evaluation Matrix</td>
<td>416</td>
</tr>
<tr>
<td>for Knowledge Management</td>
<td></td>
</tr>
<tr>
<td>Xiuhui Yu and Shoulian Tang</td>
<td></td>
</tr>
<tr>
<td>Performance of Ad Hoc on Demand Distance Vector Routing Protocol</td>
<td>420</td>
</tr>
<tr>
<td>Baohua Shao</td>
<td></td>
</tr>
<tr>
<td>The Grey Comprehensive Evaluation of Bulldozer’s Designs Based</td>
<td>422</td>
</tr>
<tr>
<td>on Combination Weight</td>
<td></td>
</tr>
<tr>
<td>Yan Zhang, Hui Song, Rui Dai, and Han Zhao</td>
<td></td>
</tr>
</tbody>
</table>
OPENLIMS: The Internet of Things Oriented Laboratory Information Management System ................................................................. 426
Xianzhong Cheng, Kuang Cheng, and Lianyun He
Analysis and Recognition for Industry Characteristics of Emergency in Supply Chain Based on Fuzzy Clustering .................................................. 430
Lei Xu, Qianli Dong, and Kaizheng Liu
Data Synchronous Dynamic Update Application for Caller-ID Phone with SOA MIS .................................................................................................. 433
Quanyin Zhu, Tiantian Ding, Yunyang Yan, and Junfeng Dai
Establishment of Database to Protect Chinese Folklore .................................................................................................................. 438
Caihong Sun
A Video Storage Algorithm Based on Buffer and Anomaly Detection .................................................................................................. 442
Jin-na Lv, Xiao-zhong Li, Zhi-jun Zhang, Guo-hong Gao, and Shun-ping Wang
Research on Trusted Computing Implementations in Windows .................................................................................................. 446
Shu-xia Wang, Yin-chuan Wang, and Wei-zhen Tian
On Environmental Impact Assessment (EIA) of Technology .................................................................................................. 450
Zhigian Wan and Huiyan Liu
A Method for Interval Multiple Attribute Decision Making with Loss Aversion .......................................................................... 453
Fa-dong Chen, Xiao Zhang, Feng Kang, Zhi-ping Fan, and Xi Chen
Research of Access Control Policy Based on Context and Role for Web Service .................................................................................................. 457
Zhengqiu He, Lif. Wu, Haisu Zhang, Chenghui Zheng, and Xiaoguang Zeng
A Remote Sensing Based Web Information System for Urban Management .................................................................................. 463
Guofang Nan and Zhijun Meng
An Optimized Trust Factor Based Collaborative Filtering Recommendation Algorithm in E-commerce .................................................................................................. 468
Xinyi Bu and Xiujuan He
Bimatrix Games on Possibility Space .................................................................................................................................................. 472
Cun-lin Li, Qiang Zhang, and Gao-sheng Zhu
A Genetic Algorithm for the Arrangement of the Physical Ability Test .................................................................................................. 476
Qiming Feng
The Application of Web Security Technology in Grid Service .................................................................................................. 480
Lijuan Liu and Yao Li
Enterprise Information Exchange Platform Based on ESB for Research and Design .................................................................................................. 484
Chongshan Ran and Shasha Wu
Evaluation of Several Time Synchronization Protocols in WSN .................................................................................................. 488
Xiaolu Liu and Shumin Zhou
Application of a Hybrid Model to Short-Term Load Forecasting .................................................................................................. 492
Xin Jin, Jie Wu, Yao Dong, and Dezhong Chi
Research on Variation in Process Quality Based on Clustering Method .................................................................498
Xiujuan Yu and Fansen Kong

Analysis on Mechanism of Knowledge Management in Forming Innovative Clusters ......................................................................................................................................................................501
Wang Xuejun and Jiang Yinhua

The Three-Dimensional Imaging Based on Mean Shift Algorithm ........................................................................506
Limei Wang, Jianwen Wang, Bin Liu, and Qian Xu

Stock Price Informativeness and Investment-Cash Flow Sensitivity ........................................................................510
Jiwei Yang

Blog-Based Dynamic Organization and Management for Multi-discipline Knowledge ................................................................................................................................................................515
Guohai Zhang, Xuequn Su, and Guanghui Zhou

Information Management of the Construction Engineering and the Design of Computer Coding ............................518
Qing-min Gao, Lei Gao, and Qian-ye Zhang

Power Project Finance of PPP Risk Analysis Based on the Gray System Method ................................................................................................................................................................522
Liu Rui and Yuan Bo

Applications Based on Genetic Neural Network Model of Lianyungang Marine Water Quality Optimization Techniques and Algorithms Technology ........................................................526
Wenbin Chen and Weixing Ma

Human Factors Engineering in the Metallurgical Industry EAF Protection System of Individual Applications and Development ................................................................................................................................................................530
Guoxiang Xu and Wenbin Chen

Multi-attribute Online Auction Decision-Making Based on Compromise Solution ................................................................................................................................................................536
Gangtao Jia, Zhiguang Zhang, and Yan Qin

Study of Dynamic Evolutionary Model of Regional Talent Agglomeration System ................................................................................................................................................................540
Liang Lin, Liu Bing, and Han Tiwen

The Optimization Study of the Vehicle Scheduling about Construction Logistics Distribution Based on Genetic Algorithm ................................................................................................................................................................545
An Zhong, Shen Huimin, and Cao Bo

Algorithm Study on Thinning and Keeping Connectivity of Bituminous Pavement Crack Images ........................................................550
Chu Yanli

Wireless E-commerce Payment and its Development in China ..........................................................................................554
Liu Shifeng and Chen Rong

Images Compression Using Dual Tree Complex Wavelet Transform ........................................................................559
Li Hui Fang, Miao Guo Feng, and Xu Hou Jie
Order Schedule on Multi-mixed-model Assembly Lines in Assemble-to-Order Environments

Guicong Wang, Huanyong Cui, and Pengfei Xu

563

A New Method of Image Compression Based on Quantum Neural Network

Huifang Li and Mo Li

567

Research on Optimizing Grain and Oil Distribution Problem Based on VRP-DM

Xu Degang and Xiao Renbin

571

Author Index - Volume 1

575
2010 International Conference of Information Science and Management Engineering

ISME 2010

Table of Contents
Volume - 2

Preface - Volume 2............................................................................................................................................xv
Organizing Committee - Volume 2.........................................................................................................xvi
Reviewers - Volume 2....................................................................................................................................xvii

Papers of the 2010 International Conference of Information Science and Management Engineering: Volume 2

Intrusion Alerts Correlation Based Assessment of Network Security .................................................................3
   Jin Shi, Guangwei Hu, Mingxin Lu, and Li Xie
Testing Method and Experimental Studies on Single Laser Pulse Energy ..........................................................7
   Guoxing Liang, Ming Lv, and Xiaoxu Gao
An Inventory Management Model in Mobile Commerce ..................................................................................11
   Yingfei Zheng and Xianghui Meng
Bayesian Network Inference on Risks of Construction Schedule-Cost .........................................................15
   Junyan Liu
A New User-Based Collaborative Filtering Algorithm Combining Data-Distribution ....................................19
   Zilei Sun and Nianlong Luo
Research on Intelligent Process Quality Control System under Network Environment ..................................24
   Jun Guo, Shunsheng Guo, and Xiaobing Yu
Numerical Simulation Research on Optimizing Monitoring Well Point of Reservior Pressure .................................................................28
   Daiyin Yin, Tingting Wu, and Huan Wang
Research on Identification Method of Key Customer Based on CRM ................................................32
Yanhui Wang

Research Transplanting Method of Embedded Linux Kernel Based on ARM Platform .................................................................35
Jie Hu and Gen-bao Zhang

Study on Recommended Trust Evaluation Model in C2C E-commerce Considering Consumer Purchasing Preference .................................................................39
Tianhui You, Lu Li, and Bingbing Cao

Intuitionistic Fuzzy Group Decision Making for Supply Chain Information Collaboration Partner Selection .................................................................43
Lei Wen and Xiaojuan Zhang

Numerical Simulation Research on Well Pattern Adaptability of Low Permeability Oilfield .................................................................47
Chengli Zhang, Huan Wang, and Mingguo Wei

Study of Microwave Dielectric Resonator Oscillator Frequency Degradation Model for Intelligent Maintenance Systems .................................................................51
Jinyong Yao, Haibo Su, and Xiaogang Li

Intelligent Agents for Modeling Warfare Entities Actions Using an Improved Contract Net Protocol .................................................................55
Xiong Li, Sheng Dang, Qingyin Niu, and Xiuquan Xie

Emergency Logistics Risk Assessment Based on AHM .................................................................59
Wu Chen, Qiang Feng, and Qingfeng Xu

Research on the Knowledge Management System of the Vicarious Management Corporation .................................................................62
Guodong Ni, Wenshun Wang, Jianping Wang, Zhifang Zong, and Meng Xie

Research on the Evaluation of Knowledge Management Performance of Enterprise .................................................................68
Peng Wenzhi

Research on the Information Capacity of Three-Dimension Evaluation Model of the Enterprises’ Information System .................................................................72
Shi Juan and Li Tiangang

The Study of Interwell Tracer Numerical Simulation in Oilfield Development .................................................................75
Daiyin Yin and Huan Wang

QoS-Driven Transactional Web Service Reselection for Reliable Execution .................................................................79
Ying Yin, Bin Zhang, and Xizhe Zhang

The Analysis of Human Resource Allocation and Incentive Based on JIT System .................................................................83
Li Jianshe and Yang Qun

A Computer Simulation Study of High Concentration Polymer Flooding .................................................................87
Daiyin Yin, Weiming Huang, and Xueqing Xu
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Defense Model Study Based on IDS and Firewall Linkage</td>
<td>91</td>
</tr>
<tr>
<td>Lei-jun Li and Hong Peng</td>
<td></td>
</tr>
<tr>
<td>An Analyze of the Zero Price Effect on Online Business Performance—A</td>
<td>95</td>
</tr>
<tr>
<td>Research Based on the Mobile Internet</td>
<td></td>
</tr>
<tr>
<td>Yanbin Liu and Ping Yuan</td>
<td></td>
</tr>
<tr>
<td>Modeling and Simulation of Knowledge Transfer within an Inter-firm</td>
<td>99</td>
</tr>
<tr>
<td>Network</td>
<td></td>
</tr>
<tr>
<td>Yongyi Shou and Yu Sun</td>
<td></td>
</tr>
<tr>
<td>ISPICA: IDPSO-Based Service Pool Construction Algorithm</td>
<td>104</td>
</tr>
<tr>
<td>Wenbin Wang, Qibo Sun, Fangchun Yang, and Xinchao Zhao</td>
<td></td>
</tr>
<tr>
<td>An Empirical Study of Online Third Party Guarantee Service Effect</td>
<td>109</td>
</tr>
<tr>
<td>Xiao Kaihong</td>
<td></td>
</tr>
<tr>
<td>Fuzzy Decision and Qualitative Reasoning System for Military Problems</td>
<td>113</td>
</tr>
<tr>
<td>Discussion</td>
<td></td>
</tr>
<tr>
<td>Rui Guo, Fang-ming Wu, and Bu-Yun Wang</td>
<td></td>
</tr>
<tr>
<td>Optimization Design of EWMA Charts with Variable Sampling Intervals</td>
<td>116</td>
</tr>
<tr>
<td>Based on Taguchi’s Loss Function</td>
<td></td>
</tr>
<tr>
<td>Li Xue, Jichao Xu, and Yumin Liu</td>
<td></td>
</tr>
<tr>
<td>The Research of Hybrid Scheduling Model in AS/RS Based on Multi-agent</td>
<td>120</td>
</tr>
<tr>
<td>System and Petri Net</td>
<td></td>
</tr>
<tr>
<td>Yang Wei, Qiu Xiaohong, and Wang Haigang</td>
<td></td>
</tr>
<tr>
<td>A New Camera Calibration Method Based on Two Stages Distortion Model</td>
<td>125</td>
</tr>
<tr>
<td>Qu Xuejun, Zhang Lu, Meng Biao, Han Zhiren, and Zhang Lingyun</td>
<td></td>
</tr>
<tr>
<td>A Novel Robust Contour Tracking Algorithm</td>
<td>130</td>
</tr>
<tr>
<td>Jianjun Xu, Duyan Bi, and Zifu Wei</td>
<td></td>
</tr>
<tr>
<td>Using ATL to Receive Model Transformation in MDA</td>
<td>135</td>
</tr>
<tr>
<td>Jingjun Zhang, Fei Wei, Hui Li, and Yuejuan Chen</td>
<td></td>
</tr>
<tr>
<td>A Novel Target Recognition System in Uncertain Environment</td>
<td>139</td>
</tr>
<tr>
<td>Yongyan Hou and Wengiang Guo</td>
<td></td>
</tr>
<tr>
<td>A Novel Fault Diagnosis Algorithm Based on Graphical Model</td>
<td>143</td>
</tr>
<tr>
<td>Wengiang Guo and Yongyan Hou</td>
<td></td>
</tr>
<tr>
<td>Dynamic Vehicle Detection Algorithm Based on Background Updating</td>
<td>147</td>
</tr>
<tr>
<td>and Suppressing</td>
<td></td>
</tr>
<tr>
<td>Li Peng, Ma Hongmei, Huang Chengyu, and Xu Bo</td>
<td></td>
</tr>
<tr>
<td>A Combination Strategy for Reactive Power Optimization Based on Model</td>
<td>151</td>
</tr>
<tr>
<td>of Soft Constrain Considered Interior Point Method and Genetic-Simulated Annealing Algorithm</td>
<td>155</td>
</tr>
<tr>
<td>Guo Liya, Ding Xiaoyuan, Chen Guangyu, Song Jizhong, Cui Qihui, and Liu Wenhua</td>
<td></td>
</tr>
<tr>
<td>Cloud-Based Name Disambiguation Algorithm</td>
<td></td>
</tr>
<tr>
<td>Yang Juan, He Hua, and Wu Bin</td>
<td></td>
</tr>
</tbody>
</table>
Locus Plan and Emulation of Loading-bok Robot ...............................................................159
   Wang Shanbin, Huang Liangguang, and Ling Gong
Study on Urban Traffic Intelligent Guidance System ........................................................165
   Kaisheng Zhang, Jiao She, Mingxing Gao, and Wenbo Ma
Study on the Embedded Fingerprint Image Recognition System ......................................169
   Kaisheng Zhang, Jiao She, Mingxing Gao, and Wenbo Ma
GA in Military Equipment Investment Plan Application and Simulation ..........................173
   Yang Yuqi, Gao Xiaoguang, Feng Xiaoyi, and Li Danjiao
Design of Digital FIR Filters Using Differential Evolution Algorithm Based on Reserved Gene ..............................................................................................................................................177
   Qingshan Zhao and Guoyan Meng
GF-Convergence Theory of L-fuzzy Nets and its Applications ..........................................181
   Bin Chen
Wind Speed Forecasting Based on Combination Forecasting Model ..................................185
   Nan Xiaoqiang, Li Qunzhan, Yu Junxiang, and You Zhiyu
An Approach to Calculate Queue Delay in Mobile Ad Hoc Networks ..............................190
   Liu Ping and Yuan Peiyan
Isomap Algorithm Based on 2D Gabor Wavelets and 2DPCA ........................................193
   Chanchan Qin, Hongbo Xu, Lihua Wang, Huijuan Zhang, and Guoqing Li
Timber Species Recognition Approach Based on Mathematic Simulation Theory ...............197
   Zhao Lei and Ma Yan
The Research of the Data Mining Based on the Spatial Database Technology ..................203
   Bingquan He, Jiubin Wang, and Chao Li
Observer Trajectory Optimization of Maneuvering Target for Bearings-only Tracking ......207
   Hua Yu, Wen-Quan Wu, and Zhong Liu
General Toolkit for Discrete Estimation of Distribution Algorithms ................................212
   Hua Yu, Wen-Quan Wu, and Zhong Liu
On Weakly Fuzzy Semi-I-open Sets and a Decomposition of Fuzzy Continuity ................216
   Bin Chen and Jinjin Li
LiterMiner: An Academic Literature Mining System ........................................................220
   Wu Bin, Zhao Bin, Tian Hongqiao, and Wen Wanting
Dual Reverse Validation of Integrity Information Processing and Analysis Subsystem of Real-Time Wide-Area Precision Positioning System ..............................................224
   Wei Feng, Xing Wu, Jia-ni Shao, and Liu-peng Wang
Topological Approaches to the First Type of Covering-Based Rough Sets ........................227
   Bin Chen and Jinjin Li
Construction Effective Knowledge Integration Strategy Based on Culture Algorithm Framework .............................................................................................................................................231
   Si-hua Chen
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Event Diffuse Model for Complex Systems</td>
<td>235</td>
</tr>
<tr>
<td>Chen Lei and Chen Shihong</td>
<td></td>
</tr>
<tr>
<td>Research on the Wavelet Neural Network Pattern Recognition Technology for Chemical Agents</td>
<td>241</td>
</tr>
<tr>
<td>Minghu Zhang, Dehu Wang, Shijun Lv, Enzhong Quan, Shaojie Chen, and Yingsong Li</td>
<td></td>
</tr>
<tr>
<td>Adaptive Weight Particle Swarm Optimization Algorithm with Constriction Factor</td>
<td>245</td>
</tr>
<tr>
<td>Zhiyu You, Weirong Chen, Guojun He, and Xiaqi Nan</td>
<td></td>
</tr>
<tr>
<td>The Knowledge Description of Emergency Information Semantic Metadata Model and its Application</td>
<td>249</td>
</tr>
<tr>
<td>Zhang Xiankun, Du Lei, and Gao Shan</td>
<td></td>
</tr>
<tr>
<td>Surface Matching by Using the Simple Strategy in the Application of Automotive Styling</td>
<td>253</td>
</tr>
<tr>
<td>Qiang Li, Xi Wang, Nan Qi, Yanping Tang, and R.M. Newman</td>
<td></td>
</tr>
<tr>
<td>Comparison of the Evolutionary Strategies for the Surface Matching Based on Projective Area</td>
<td>257</td>
</tr>
<tr>
<td>Qiang Li, Yanping Tang, Nan Qi, Xi Wang, and R.M. Newman</td>
<td></td>
</tr>
<tr>
<td>On Fuzzy delta-I-open Sets and a Decomposition of Fuzzy alpha-I-Continuity</td>
<td>261</td>
</tr>
<tr>
<td>Bin Chen and Nan Jiang</td>
<td></td>
</tr>
<tr>
<td>Q-convergence Theory of Nets of Fuzzy Sets in Fuzzy Topological Spaces</td>
<td>265</td>
</tr>
<tr>
<td>Houshan Teng and Bin Chen</td>
<td></td>
</tr>
<tr>
<td>MRData: A MapReduce-Based Tool for Heterogeneous Data Integration</td>
<td>269</td>
</tr>
<tr>
<td>Liutong Xu, Kai Jin, and Hongqiao Tian</td>
<td></td>
</tr>
<tr>
<td>Learning Essential Graph with Immune Co-evolutionary Algorithm</td>
<td>273</td>
</tr>
<tr>
<td>Haiyang Jia, Juan Chen, and Dayou Liu</td>
<td></td>
</tr>
<tr>
<td>A Skeleton-Based Antenna Positioning Algorithm for Indoor Radio Coverage</td>
<td>277</td>
</tr>
<tr>
<td>Han Xu, Wenyu Liu, and Shan Zhu</td>
<td></td>
</tr>
<tr>
<td>T-MOEA/D: MOEA/D with Objective Transform in Multi-objective Problems</td>
<td>282</td>
</tr>
<tr>
<td>Hai-Lin Liu, Fang-qing Gu, and Yiu-ming Cheung</td>
<td></td>
</tr>
<tr>
<td>Optimal Design and Experimental Study of the Active Vibration Isolation System Based on NCGA Algorithm</td>
<td>286</td>
</tr>
<tr>
<td>ZhengTao Yan, WeiMin Mao, and XueTao Weng</td>
<td></td>
</tr>
<tr>
<td>Objective Evaluating Method to Fusion Image Quality Based on ANN</td>
<td>291</td>
</tr>
<tr>
<td>Yong Zhang and Ling Zhang</td>
<td></td>
</tr>
<tr>
<td>Mine Airflow Optimizing Control Based on Harmony Annealing Search</td>
<td>295</td>
</tr>
<tr>
<td>Jinxue Sui, Li Yang, Hui Fan, and Zhen Hua</td>
<td></td>
</tr>
<tr>
<td>A Bin-packing Model Based on File Preservation Problem</td>
<td>299</td>
</tr>
<tr>
<td>Qingshan Zhang, Jida Huang, Huazhen Chang, and Shaobo Li</td>
<td></td>
</tr>
<tr>
<td>Feasibility Analysis of Accelerated Degradation Test for Ammunition</td>
<td>303</td>
</tr>
<tr>
<td>Zhi-feng Fan, Xing-lin Qi, and Bin Lei</td>
<td></td>
</tr>
</tbody>
</table>
Research on Collaboration Theory for Design Chain ..........................................................306
Yong-hui Guo and Yuan Feng

Bidding Strategy for Day-Ahead and Real-Time Markets Based on Newsvendor Method in Electricity Markets .................................................................310
Zhongping Wan and Heng Fan

An Empirical Research on Quality and Safety of the Quick-Frozen Food Supply Chain .................................................................314
Hongliang Wang

Appraisal Model of Preferential Price in Initial Retail Period ........................................318
Yinghui Huang and Guanyu Li

Research on Forepart Evaluation for Support Concept of the Winged Missile Based on Vague Sets ...........................................................321
Ren-bo Yu and Ting-xue Xu

Research on Logistics Resources Integration in View of Logistics Networking ................325
Wenzheng Wu, Songdong Ju, and Jie Xu

Research on Multi-dimension Model of Collaborative Quality Control in Manufacturing Network .................................................................331
Wei Guo, Haipeng Liang, Lei Wang, Dongai Wang, and Jie Lv

The Study on Enhancing the Structured Capability of Enterprise Knowledge Management—Based on the Theory of Knowledge Supply Chain .................................337
Ying Wang and Wei-wei Jiang

Risk Assessment of Customer Information in Telecommunication Industry .............................341
Zhengwei Yu and Yumei Wu

Reconstruction of Financial Information Disclosure Based on Price Discovery Process ...........................................................345
Bi Qian and Gan Yi

Two-Player Two-Fair-Class Hotel Revenue Management Game with Incomplete Information of Transferred Customers ..................................................351
Jingpu Song, Qingda Yuan, and Yan Mao

Li Jiming, Shi Chengqin, and Wang Zhaohua

An Empirical Analysis of Call Warrant Listing on the Underlying Stock Returns: Some Chinese Evidence .................................................................360
Li Jiming, Wang Zhaohua, and Fu Jiani

Information Age to Create Yangzhou New CBD Space: A Superimposed Imprint .................................................................364
Yujing Zhu

Stock Market, Exchange Rate and Chinese Money Demand ..................................................368
Xiao Weiguo, Yuan Wei, and Zhang Chen
The Research of Bayesian Network Model for Mining the Investing Value of Listed Company ........................................................... 373
   Hou Qiaoming and De-wu Wang

Evaluation of Henan Urban Competitiveness Based on Entropy ................................................................. 377
   Si-han Zhang, Hui-jun Ren, and Yi-qing Wang

Research of the Logistics Inventory Cost Control in China ................................................................. 381
   Zhang Daibao and Zhu Caijie

The Efficiency Loss of User Equilibrium with Linear Non-separable and Asymmetric Latency Functions ................................................................. 385
   Xiaoping Wu, Feifeng Zheng, and Xiaoyu Long

The Empirical Analysis of Industrial Parks Development and Urbanization Process—Take Jiangxi Province as an Example ................................................................. 389
   Hua Xu, Wen-hui Liu, and Xin-zhi Zhang

Causes and Countermeasures of Contradiction Between Supply and Demand on Toll Highway in China ................................................................. 393
   Jiangping Xuan and HaiCheng Xu

An Empirical Study on Entrepreneurs’ Traits in Jiangxi Based on Factor Analysis ................................................................. 398
   Xiao-Hong Guo

System Dynamics Analysis of Policy-Choosing in Reverse Supply Chain ................................................................. 402
   Gu Qiaolun and Gao Tiegang

The Research of Small and Medium-Sized Enterprise’s Innovation of Integrated Technology in Henan Province ................................................................. 406
   Kangxin Wu and Yongming Zhu

The Design of an e-PSA Service Architecture for CEM ................................................................. 410
   Hongyu Yang, Tongji Yang, and Tingxin Wen

Study on Commercial Banks’ Nonperforming Assets Securitization Selection Model ................................................................. 414
   Jing-xin Chen and Wei Liu

Canonical Correlation Analysis of Regional Logistics Capability and Regional Economic Development ................................................................. 420
   Quan-xi Li and Feng-hua Jin

Approximations of the Optimal Dividends Barrier in Classical Risk Model ................................................................. 424
   Ling Tang and Huai Xu

A Construction Project Management Approach Based on Partnering Model ................................................................. 429
   Xiang Gu

A Method for Service Outsourcing Vendor Selection ................................................................. 432
   Lei Zhang, Xi Chen, Chong-yang Zhang, and Zhi-ping Fan

A Study on Improved S-shaped Path Optimization Method in CB-Sorting Area of Distribution Centers ................................................................. 436
   Meifang Xing and Zhuan Wang
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>An Empirical Study on the Determination of the Structure of Intermediate Business in Commercial Banks</td>
<td>Peng Yuliu</td>
<td>442</td>
</tr>
<tr>
<td>Optimized Design in the General Layout of YTO Construction Machinery CO.LTD Based on SLP and SHA</td>
<td>Fang-fang Su, Bing Li, Hua Xuan, and Chun-qiu Xu</td>
<td>446</td>
</tr>
<tr>
<td>Evaluating the Profitability and Marketability of Logistics Companies in China Based on Two-Stage DEA</td>
<td>Cheng Dayou</td>
<td>450</td>
</tr>
<tr>
<td>Theory and Application of Expressway EPC Project Management Mode with Design Institute-Cored</td>
<td>Honggao Man, Xinwei Yang, and Zhanliang Liu</td>
<td>454</td>
</tr>
<tr>
<td>The Impact of Loss Aversion on Investment Choice</td>
<td>Jian Wei Gao and Cheng Wang</td>
<td>459</td>
</tr>
<tr>
<td>Evaluation of China’s Oil Security Based on Support Vector Machine (SVM) Theory</td>
<td>Guoying Zhang and Wenge Liang</td>
<td>462</td>
</tr>
<tr>
<td>Empirical Study of Work Stressor Effects on Chinese Hotel Employee Health</td>
<td>Guo Shumei and Liu Bing</td>
<td>466</td>
</tr>
<tr>
<td>Research on Manufacturer’s Product Pricing Model under Waste Self-Selection Disposal Mode</td>
<td>Di Wu and Chunyou Wu</td>
<td>472</td>
</tr>
<tr>
<td>An Improved Combined Forecasting Method for Electric Power Load Based on Autoregressive Integrated Moving Average Model</td>
<td>Xin Jin, Yao Dong, Jie Wu, and Jujie Wang</td>
<td>476</td>
</tr>
<tr>
<td>Reorganization of Master Manufacturing Process-Planning Based on Complexity in Mass Customization</td>
<td>Xin Cheng, Dan Li, and Xinsheng Xu</td>
<td>481</td>
</tr>
<tr>
<td>Research on the Evaluation of Enterprise’s Core Competence Based on Unascertained Measure</td>
<td>Yao Ligen and Dong Zhenlin</td>
<td>485</td>
</tr>
<tr>
<td>The Contribution of Logistics Industry to Economic Growth Based on Logis Model</td>
<td>Guo ping Cheng, Wei Liu, Chang wei Xie, and Jun ying Zhou</td>
<td>489</td>
</tr>
<tr>
<td>The Pricing Coordination of Manufacturers Based on Logistics Outsourcing</td>
<td>Hua Liu and Chunhui Hu</td>
<td>493</td>
</tr>
<tr>
<td>Analysis on the Demand of Reverse Mortgage Based on Borrowers’ Expectation</td>
<td>Yanyan Wu, Shitong Zhang, and Yuni Sun</td>
<td>498</td>
</tr>
</tbody>
</table>
Study on Evaluation of Emergency Management Contingency Plan in Express Industry .................................................................503

Lu Shan
An Empirical Study on Financial Distress Prediction Taking into Account the Expected Default Frequency ..........................................................507

Xiaoli Song
Study of the Issue of Personnel Promotion Based on Fuzzy Comprehensive Evaluation ................................................................511

Ji-bin Ma, Hong-wei Yu, and Chun-lei Gao
A Continuous-time Utility Portfolio Selection in a market with Regime Switching ..................................................................514

Xuanhui Liu, Yajun Duan, and Min Wu
Fuzzy Evaluation Based on Trapezoidal Fuzzy Numbers Similarity for Supply Risk of Manufacturer ..................................................519

Wen Lei and Li Peng
Econometric Analysis on the Relationship Between Financial Development and Economic Growth in China Based on Var Model ..........................................................523

Wang Jian, Jin Hao, and Shen Hongli
The Binary Relative Evaluation of China’s Auto Enterprises .................................................................527

Yan Pu and Zheng-liang Xu
Research on the Risk Assessment Method of Vicarious Management Corporation Based on the Fuzzy AHP Method .................................................................531

Guodong Ni, Meng Xie, Wenshun Wang, Jianping Wang, and Jianqiao Zhang
Optimization of Forward/Reverse Logistics Networks for Electronic Products .................................................................536

Lili Ren and Yong He
Measuring Complexity of Modern Sea-Warfare System ................................................................539

Rui Guo and Bu-Yun Wang
A Model on Customer Satisfaction Degree Evaluation of Third Party Logistics ................................................................543

Luo Jianfeng and Ma Tianshan
Study on Multi-objective Optimization Model for Fragile Production Logistics Path Selection Based on Risk and Cost .................................................................547

Mian Liu, Guo-Long Lin, and Zhi-Hua Hu
Research on Interpersonal Relationship of Athletes in University ................................................................551

Guo Hao
Research on Control Platform of Household Appliances Based on ZigBee and DSP ................................................................554

Zhu Lei, He Juan, and Zhang Gaoqiang
Application of Giant Magnetostrictive Actuator in Active Vibration Isolation System to Line Spectra Reduction .................................................................557

Zhang Xing, He Qiwei, and Xie Xiangrong