

2010 International Forum on Information Technology and Applications

(IFITA 2010)

**Kunming, China
16 - 18 July 2010**

**Volume 1
Pages 1 - 455**



**IEEE Catalog Number: CFP1039G-PRT
ISBN: 978-1-4244-7621-3**

2010 International Forum on Information Technology and Applications

IFITA 2010

Table of Contents

Volume - 1

Welcome Message from the General Chair of IFITA 2010 -

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

Section A: Theory and Method of Information Technology

A Flexible Person Identity Authentication Archetype Based on Support Vector Machine Fusion	3
<i>Bao Fuliang, Fang Zhigang, and Xu Jie</i>	
A Study on Survivability of MultiHop Wireless Network	7
<i>Chang Xing and Chen Jingdong</i>	
Improved Methods of BP Neural Network Algorithm and its Limitation	11
<i>Chaoju Hu and Fen Zhao</i>	
Program Slicing	15
<i>Chen Duanzhi</i>	
A Method of Calculating Image Fractal Dimension Based on Fractal Brownian Model	19
<i>Cheng Yinglei, Sun Jida, Jiang Hua, and Li Xiaochun</i>	
An Approach for Component-Based Software Development	22
<i>Fu Lingyun, Sun Guang, and Chen Jianli</i>	
A 3G Video Phone Solution for Adaptive Video Data Collection	26
<i>Gao Yongqing and Shang Dan</i>	

K-means Multiple Clustering Research Based on Pseudo Parallel Genetic Algorithm	30
<i>Ge Xiufeng and Xing Changzheng</i>	
Traffic Identification Method for Specific P2P Based on Multilayer Tree Combination Classification by BP-LVQ Neural-Network	34
<i>Gu Yiran and Wang Suoping</i>	
Activity Theory Ontology for Knowledge Sharing in E-health	39
<i>Guohua Bai and Yang Guo</i>	
Incremental Inserting Algorithm for D-TIN Constructing Realization	44
<i>Han Yong</i>	
Research on P2P Incentive Mechanism	47
<i>Hu Chaoju and Tu Chao</i>	
Product Customer Satisfaction Optimized Model Based on GA-PLS	51
<i>Hua Ertian and Ni Yangdan</i>	
Adaptive Annealing Genetic Algorithm for Wavelet Denoising	55
<i>Xiao-song Jiang and Wu Niu</i>	
Wavelet Local Donoise Reconstruction Algorithm Based on Non-separable MRA	59
<i>Jin Guoying and Chen Hongye</i>	
Hybrid Network Worm Emulation and Analysis	62
<i>Kuang Xiaohui, Huang MinHuan, Wen Yan, and Xu Fei</i>	
Research Based on the Division of Functional Requirements of SAAS	67
<i>Li Yaling, Shu Hongping, Liu Kui, and Luo Fei</i>	
Research on Interpreting Mechanism of Natural Spatial Query Language	71
<i>Li Bin, Chang Dehai, and Wang Qingshan</i>	
Procedural Modeling of Urban Road Network	75
<i>Li Gang and Shi Guangshun</i>	
The Practice and Defense of LAN Monitor	80
<i>Li Jing</i>	
The State of the Art in Middleware	83
<i>Li Qilin and Zhou Mintian</i>	
Intrusion Response Model Based on AIS	86
<i>Li Rui and Luo Wanbo</i>	
A Fixed-Parameter Tractable Algorithm for Correlation Clustering with l Clusters	91
<i>Li Shuguang, Zhu Daming, and Xin Xiao</i>	
Bounded Size Graph Clustering on Trees	95
<i>Li Shuguang, Zhu Daming, and Xin Xiao</i>	
Parallel Decision Tree Algorithm Based on Combination	99
<i>Li Wenlong and Xing Changzheng</i>	

Research and Improvement of Real-Time Queue Scheduling Algorithm	102
<i>XinYan Li and PingPing Lun</i>	
A Quantitative Approach to Software Maintainability Prediction	105
<i>Liang Ping</i>	
A Lower Bound on the Dimension of Bicubic Spline Spaces over T-meshes	109
<i>Liangbing Jin</i>	
Spectral Simulation Analysis of Doppler Ultrasound Blood Flow Signals from Local Expansion Artery	113
<i>Lifang Wang, Yaqun Huang, Yalin Tao, and Yaohua Zhou</i>	
Text Classification Algorithm Study Based on Rough Set Theory	117
<i>Lin Xun, Li Zhishu, Zhou Yong, and Xue Yuan</i>	
A Study on Meta Pattern Similarity of Time Series	121
<i>Lin Xun, Li Zhishu, Zhou Yong, and Xue Yuan</i>	
A Method of Remote Fault Diagnosis Based on Region Synchronous Enlargement of Self-Organizing Feature Map	125
<i>Liu Guangzhi, Chen Wenyu, and Liu Jingbo</i>	
Inter-view Scalability and Prediction Multi-view Video Coding Scheme	129
<i>Liu Hai, Ma Lini, and Lv Huayi</i>	
Study on the Detection and Analysis Technique of Intranet Security	134
<i>Liu Haiyan, Yang Zhaozhong, and Zhang Zhanjun</i>	
High-Precision Surface Rendering Method for Image Sequences	138
<i>Liu Hong and Min Shuhui</i>	
An Advanced Federate Migration Protocol Based on Grid HLA	142
<i>Liu Minmin and Sun Shixing</i>	
A Fast Mining and Updating Algorithm for Frequent Patterns on Biological Single Sequence	147
<i>Liu Wei and Chen Ling</i>	
The Design of Digital Amplitude-Frequency Equilibrium Power Amplifier	152
<i>Liu Wei, Jiang Wenlong, and Qi Haidong</i>	
Numerical Study on Inverse Kinematic Analysis of 5R Serial Robot	155
<i>Liu Wenjun, Luo Yufeng, Yang Tingli, Shi Zhixing, and Fu Meitao</i>	
Improved Fast Motion Estimation Algorithm Based on the H.264	159
<i>Liu Yiming, Li Haibiao, and Xiao Yongjun</i>	
Commercial Banks Exceptional Client Distinguish Based on Data Mining	164
<i>Yunfeng Liu, Xiaohui Wang, and Dongsheng Zhai</i>	
Research on Whole Max Ordinal in Combinatorics Coding Technology	167
<i>Lu Jun and Liu Daxin</i>	
One Smooth Constrained Block Match Method Based on Integer Arithmetic	171
<i>Lu Shuxi and Shi Yuzhen</i>	
Digital Image Encryption Algorithm Based on Improved Arnold Transform	174
<i>Ma Ding and Fan Jing</i>	

Realization of Parallel Ant Colony Algorithm Based on TBB Multi-core Platform	177
<i>Ni Li, Dongdong Gao, Guanghong Gong, and Zheng Chen</i>	
Hybrid Intelligent Algorithm for Vehicle Routing Problem with Multiple Time Windows	181
<i>Peng Bitao and Wang Fei</i>	
Research on Group-Based Polling Anti-collision Algorithm for RFID Tag Identification	185
<i>Piao Chunhui, Fan Zhenjiang, Yang Chunyan, and Han Xufang</i>	
Performance Test of Network Simulation Based on Split-Object Model	189
<i>Ping Wu and Bin Wu</i>	
A Survey on Automatic Summarization	193
<i>Sicui Wang, Weijiang Li, Feng Wang, and Hui Deng</i>	
An Improved Image Enhancement Algorithm Based on Fuzzy Sets	197
<i>Tang Shiwei, Zu Guofeng, and Nie Mingming</i>	
Research on Parameter Sensitivity Analysis of Distributed Hydrological Model in Karst Watershed	200
<i>Tian Yu, Lei Xiaohui, Wang Hao, and Jiang Yunzhong</i>	
Research of Visual Features Detection and Tracking Methods about Audio-Visual Bimodal Speech Recognition	204
<i>Wang Lirong, Xu Jing, and Zhao Yanyan</i>	
Analysis on Bubble Sort Algorithm Optimization	208
<i>Wang Min</i>	
Airborne Radar Mode Management Algorithm Based on FDT	212
<i>Wang Qian, Zhou Deyun, and Lu Hua</i>	
Parallelization and Performance Test to Multiple Objective Particle Swarm Optimization Algorithm	216
<i>Wang Yuhui, Lei Xiaohui, Jiang Yunzhong, and Song Xinshan</i>	
Workflow Exception Handling Method Based on ECA Rules and Advanced Transaction Characteristics	224
<i>Wang Yukuo, Ji Yanpin, Wang Yuehui, and Ren Changquan</i>	
A Low Power Grid-Based Cluster Routing Algorithm of Wireless Sensor Networks	227
<i>Wei-dong Liu, Zheng-dong Wang, Shen Zhang, and Qing-qing Wang</i>	
A Secure Routing Protocol with Intrusion Detection for Clustering Wireless Sensor Networks	230
<i>Xiao Zhenghong and Chen Zhigang</i>	
Ontology Generation from Web Tables: A 1+1+N Approach	234
<i>Xu Lei and Ren Yong</i>	

Research on an Algorithm of Metasearch Engine Based on Personalized Demand of Users	240
<i>Xue Yun, Shen Xiaoping, and Chen Jianbin</i>	
Mutually-Inversistic Rough Set	244
<i>Xunwei Zhou</i>	
A Landmark-Based Virtual Geographic Routing in WSN	247
<i>Yang Yun, Chen Jie, Chen Junqin, Shi Tingting, and Zhang Jing</i>	
Research on Technical Control Models in Network Information Communication	251
<i>Yao Liu</i>	
An Application of Heat Flow Equation of Numerical Method	255
<i>Yimin Tian</i>	
An Explicit-Implicit Difference Scheme for the Third Order Term of KDV Equation	257
<i>Yimin Tian</i>	
The Key Techniques of Scientific Workflow System	259
<i>Yingbo Liu, Hui Deng, Feng Wang, and Kaifan Ji</i>	
Hierarchical Stack-Based Twig Query Algorithm of XML Data	263
<i>Yu Qunai</i>	
Neural Network Ensemble Method Based on Improved Sort Learning Algorithm	267
<i>Yu Shicai and Xia Guirong</i>	
An Efficient Identity-Based Concurrent Signature Scheme	270
<i>Jianhong Zhang and Shengnan Gao</i>	
On the Improvement of Autonomous Learning Ability of Contemporary University Students via Internet	274
<i>Zhang Jun, Gao Fuxiang, and Wang Jian</i>	
A New Compound Chaos Encryption Algorithm for Digital Images	277
<i>Zhang Jun, Li Jinping, and Wang Luqian</i>	
An Improved Communication Efficiency Optimized Model Based on Mobile Agent	280
<i>Lin Zhang, Xiao-ping Li, and Chun-xiao Zhao</i>	
The Analysis of Link Mechanism Movement Based on MathCAD	284
<i>Zhang Mingsong, Zhang Li, and Zhang Fajun</i>	
Adaptive Kalman Filtering Method to the Data Processing of GPS Deformation Monitoring	288
<i>Zhang Wei, Fan Dongli, and Yang Jinzhong</i>	
A Method of Linear Transformation Fast Calculation	293
<i>Zhang Weixi and Zhang Li</i>	
Study of Hardware Architecture Based on Software Radio	297
<i>Zhang Xuejing, Li Jinping, Zou Erning, and Ding Xiaojun</i>	

Research on Intelligent Infusion Device Control System Based on Chip Microcomputer	301
<i>Zhang Yubin, Yao Yunping, Wu Zhengang, Zhang Wenbin, Chen Yu, and Li Hao</i>	
Research on Data Cleaning in Text Clustering	305
<i>Zhang Yuhang, Wang Yue, and Yang Wei</i>	
Streaming FFT Asynchronously on Graphics Processor Units	308
<i>Lili Zhao, Zhang Shengbing, Zhang Meng, and Zhang Yi</i>	
Prediction Model of Salvolatile Column Based on General Regression Neural Networks and Modified Genetic Algorithms	313
<i>Zheng Qifu and Wu Guoquan</i>	
Parallel Prefix Network Based DQPSK Precoder for High-Speed Optical Transmission	317
<i>Zhou Liming, Huang Yongqing, Zhang Yangan, Wang Gai, Zhang Minglun, Zhang Jinnan, and Yuan Xueguang</i>	
Method of Correcting Wavelet Differences of Data Received by Velocity-Type Geophone and Piezoelectric Geophone	321
<i>Zhu Weiqiang, Wang Yanchun, Wang Dongkai, and Wang Shulun</i>	
An Enhancement Algorithm Based on Fingerprint Image with Signature	324
<i>Zhu Yong, Huang Waibin, and Han Zhike</i>	
Classification Based on a Novel Distance Method	327
<i>Zhuo Wang, Bin Nie, Jianfeng Xu, and Ran Hu</i>	
Data Mining Using Rough Sets and Orthogonal Signal Correction-Orthogonal Partial Least Squares Analysis	330
<i>Zhuo Wang, Bin Nie, Jianfeng Xu, Ran Hu, Hongning Liu, and Jianqiang Du</i>	
Formal Analysis of Mobile Payment Protocol KSL Based on SSM	333
<i>Ziyi You, Xiaoyao Xie, and Yang Xu</i>	
Further Improvement of SPIHT for Multispectral Image Compression	337
<i>Zhong Cuixiang and Huang Minghe</i>	
Section B: Engineering and Technique of Information Technology	
Study on the Airgap Flux Density of the Six-Phase Induction Machine Based on Trapezoidal Phase Current Waveform with CAD	343
<i>Bao Ai, Yong-le Ai, and Lian-bo Niu</i>	
Realization of Buffer Overflow	347
<i>An Zhiyuan and Liu Haiyan</i>	
The Analysis of Impedance Matching Problem in RF Circuit Design	350
<i>Bai Mindan and Liang Hong</i>	
Classification and Discrimination for Traditional Chinese Medicine Nature Based on OSC-OPLS/O2PLS-DA	354
<i>Bin Nie, Jianqiang Du, Guoliang Xu, Riyue Yu, Zhuo Wang, Hongning Liu, and Bingtao Li</i>	

The Research for Traditional Chinese Medicine's Nature and its Classification Model	358
<i>Bin Nie, Jianqiang Du, Riyue Yu, Guoliang Xu, Zhuo Wang, Hongning Liu, and Quan Wen</i>	
Classification and Discrimination for Traditional Chinese Medicine's Nature Based on PLS-DA	362
<i>Bin Nie, Jianqiang Du, Guoliang Xu, Riyue Yu, Zhuo Wang, Hongning Liu, and Bingtao Li</i>	
An Extended Throughput Analysis Model for SCTP with Scalable Congestion Control	365
<i>Cao Yuan and Liu Changhua</i>	
Local Stability of General Primal-Dual Algorithms	369
<i>Cao Yuan and Yan Jun</i>	
A Design of Laboratory Information Management System	373
<i>Yang Chenghui and Chang Sheng</i>	
Research for Batch Steganography	377
<i>Chen Gouxi and Chen Junjie</i>	
Study of Agricultural Knowledge Service System Model Based on Semantic Web	381
<i>Chen Hongye</i>	
Intrusion Detection System Research Based on Data Mining for IPv6	384
<i>Chen Jun and Chen Xiaowei</i>	
A Pragmatic Approach to Increase Accuracy of Chinese Word-Segmentation	389
<i>Chen Wenyu, Chen Biao, Xiang Tao, and Zhang Zhongquan</i>	
The Shortest Path Ray Tracing Algorithm in Concrete Computerized Tomography	392
<i>Chu Yanli</i>	
An Efficient Load Balancing Algorithm in Distributed Systems	397
<i>Deng Huafeng, Zhong Linhui, and Ye Maosheng</i>	
Three-Dimensional Reconstruction of Geological Images	401
<i>Cheng Du, Li Yan, and Biao Leng</i>	
A Trusted Smart Phone and its Applications in Electronic Payment	405
<i>Fang Cheng</i>	
Research of Information Services Platform for Pig Culture	409
<i>Kui Fang, Juan Wang, Xinghui Zhu, and Yue Shen</i>	
A Batch Astronomical Data Sharing System	413
<i>Feng Wang, Hui Deng, Ling Guo, and Kaifan Ji</i>	
A Survey on Scientific-Workflow Techniques for E-science in Astronomy	417
<i>Feng Wang, Hui Deng, Ling Guo, and Kaifan Ji</i>	
A Roubst Software Watermarking for jMonkey Engine Programs	421
<i>Fu Donglai, Chen Gouxi, and Yang Qiuxiang</i>	

Design and Implementation of the Web Access Monitoring System Based on URL Analysis	425
<i>Gao Fuxiang, Wang Yanyan, Shen Wenjun, and Yao Lan</i>	
The Design and Implementation of an Automatic Burdening System Based on PLC	429
<i>Gao Hongbin, Zhou Yun, Niu Xixian, and Zhang Dan</i>	
Humbling Analyzing the Application Algorithms of Credit Management System	432
<i>Gao Ningning</i>	
Proposing Data Warehouse and Data Mining in Teaching Management Research	436
<i>Gao Ningning</i>	
Frequency Domain Seismic Blind Deconvolution Based on ICA	440
<i>Gao Wei and Liu Huaishan</i>	
Collaborative Intrusion Detection Scheme for Network-Attached Storage Based on Agents	444
<i>Geng Lizhong and Jia Huibo</i>	
Simple Web OS System Based on Ext Framework and Cloud Computing	448
<i>Gu Gendai and Lu Xindong</i>	
Author Index - Volume 1	451

2010 International Forum on Information Technology and Applications

(IFITA 2010)

**Kunming, China
16 - 18 July 2010**

**Volume 2
Pages 1 - 459**



**IEEE Catalog Number: CFP1039G-PRT
ISBN: 978-1-4244-7621-3**

2010 International Forum on Information Technology and Applications

IFITA 2010 Table of Contents Volume - 2

Welcome Message from the General Chair of IFITA 2010 -

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

Section B: Engineering and Technique of Information Technology

Study on Physical Distribution of B2C E-commerce Model	3
<i>Yu Gu and Xiu-yan Geng</i>	
Apply the Decision Tree Model to Enterprise Informatization Indicators	
Analysis	6
<i>Yu Gu and Wenjuan Guo</i>	
Research in the Credit Evaluation Model Based on C2C Electronic Business	10
<i>Yu Gu and Zhiqiang He</i>	
The Difficulties and Countermeasures of Information Construction in China's	
Small and Medium Enterprises	13
<i>Yu Gu and Jincai Shi</i>	
The Research and Implementation of Supply Chain Resource Integration	
Platform on Textile Industry	16
<i>Guo Feipeng and Lu Qibei</i>	
High-Speed Moving Target Recognition Technology Based on Multi-sensor	
Data Fusion	20
<i>Guo Hualing, Deng Jiahao, and Cai Kerong</i>	

A Simple and Fast Method of Recognizing License Plate Number	23
<i>He Guanglin and Guo Yali</i>	
A New Secret Sharing Scheme Based on Commutative Encrypted Function	27
<i>Jun He, Ximei Li, Lijuan Li, and Chunming Tang</i>	
A New Forward-Secure Proxy Signature Scheme	30
<i>Jun He, Ximei Li, Lijuan Li, and Chunming Tang</i>	
Design and Development of Meteorological Information Inquiry System Based on BREW	34
<i>He Zonggang, Teng Yingyan, and Dou Qiao</i>	
The Research on the Magnetic Suspension Control System Based on DSP	38
<i>Hu Lianjun, Song Hong, Zeng Xiaohui, and Yao Yachuan</i>	
A Network Security Evaluate Method Base on AIS	42
<i>Hu Qiang and Tang Yiqian</i>	
Design and Development of C Language Integrated Development Environment with Data Accessing	46
<i>Hu Yanju</i>	
Development of the Emergency Decision System for Dangerous Chemicals Burst Leaking Accident	49
<i>Hu Yanju, Hu Yanling, and Hu Yiwei</i>	
Study of the Data Exchanging Safely and Quickly for Sudden Leakage of Dangerous Chemicals Emergency Decision System Based on VPN	52
<i>Hu Yanju, Hu Yanling, and Hu Yiwei</i>	
Research on the Service Area Division of the Regional Market Town System Based on Weighted Voronoi Diagram and Gravitational Model	55
<i>Huang Li</i>	
The Study of Optimizing of Physical Distribution Routing Problem System with Time Windows Based on Genetic Algorithm	59
<i>Huang Min, Wang Zhuo, and Hu Linghui</i>	
Design of the Temperature Control System Based on AT89S51	63
<i>Huang Wentian and Li Jinping</i>	
Application of RBF Network in System Identification for Flight Control Systems	67
<i>Huang Yijun and Niu Wu</i>	
Similarity Computation of Web Pages of Focused Crawler	70
<i>Huo Ling Yu, Liu Bingwu, and Yan Fang</i>	
Design and Implementation of Web-Based Enterprise Distance Education System	73
<i>Ji Ying</i>	
Aspect-Oriented Modeling for a Special Application at Architecture Level	77
<i>Jiang Caoqing, Ying Shi, Ni Youcong, and Guan Hua</i>	

Research of Image Matching Algorithm Based on Hybrid Particle Swarm Optimization	81
<i>Jiang Jianguo, Li Xiaolin, and Li Min</i>	
The Design and Realization of Products Management Information System in Aluminum Processing Enterprises	85
<i>Jiang Lin and Wang Jian</i>	
Optimization of Detection Strategy in Electronics Assembly	88
<i>Jiang Jianguo, Liu Chunyan, and Cheng Cheng</i>	
Research on Super Resolution Reconstruction Based on Scale Space	92
<i>Jin Lixin, Wang Huini, and Cao Yulong</i>	
Research of Embedded Database SQLite Application in Intelligent Remote Monitoring System	96
<i>Kun Yue, Linying Jiang, Liu Yang, and Heming Pang</i>	
A Cluster-Based Algorithm for Energy-Efficient Routing in Wireless Sensor Networks	101
<i>Lejiang Guo, Weijiang Wang, Jian Cui, and Lan Gao</i>	
A SRAM-Based FTL Design in Solid State Drives Using Block Associative Mechanism	104
<i>Li Bo, Xie Changsheng, Lu Chen, and Wang Fen</i>	
An Improved Policy of QoS in the Heterogeneous Network	110
<i>He Li</i>	
Foundation of Assisted Analysis Model for Site Selection of Supermarket and System Development	114
<i>Li Hengkai, Liu Xiaosheng, and Xu Qixing</i>	
A Novelty Dynamic Image Reconstruction Algorithm in Electrical Impedance Tomography Based on Nachman Theory	118
<i>Li Yaqin</i>	
The Design and Realization of Qinghai Province Visualization Weather Consultation System	121
<i>Li Yonghua</i>	
The Design and Realization of Qinghai Province's Meteorological Scientific Data Sharing System	126
<i>Li Yonghua</i>	
Visual Simulation of Flight Attitude Based on MFC and Vega	130
<i>Li Zhonghai, Zhang Shulin, Cui Jianguo, Gong Junjie, and Yu Fen</i>	
Experimental Studies on Electric Field Characteristics for a Wider Electrode Spacing and Longer Discharge Spine Electrode Base on CAT	134
<i>Lin Hui, Huang Chao, Ma Xiuqin, Wang Fei, and Yang Zengjun</i>	
Aquaculture Monitoring System	138
<i>Lin Wenmei and Liu Yuzhen</i>	

A 3D Simulation System of Seabed Terrain Based on LOD Technology	142
<i>Liu Donghai, Zheng Jiang, and Li Bingyang</i>	
The Application of Network Video Conference System in E-government	147
<i>Liu Haibo and Wang Liang</i>	
Clustering Efficient Method on Mass Chinese Text Based on Semantic Concept.....	151
<i>Liu Jinling and Zhou Hong</i>	
Test of the Dynamic Characteristics of Temperature Sensor Based on Modulated Laser Driving Method	156
<i>Liu Lishuang, Zhou Hanchang, Hao Xiaojian, and Guo Hualing</i>	
Using Formal Concept Analysis for Maritime Ontology Building	159
<i>Liu Ning, Li Guanyu, and Sun Li</i>	
An Intrusion Protection Model Based on Artificial Immune	163
<i>Liu Sunjun</i>	
The Research on Forest Fire Prevention Information System Based on GIS	168
<i>Liu Xiaosheng and Meng Yao</i>	
Design and Implementation of the Lab Remote Monitoring System Based on Embedded Web Technology	172
<i>Liu Yang, Linying Jiang, Kun Yue, and Heming Pang</i>	
Two Schemes of PrivacyCA with Higher Untraceability	176
<i>Liu Ying, Li Chaoling, Zhou Yanzhou, and Li Lixin</i>	
Design Strategy of Anti-Electromagnetic Interference for Microcomputer Relay Protection System	180
<i>Liu Yucheng and Liu Yubin</i>	
High Continuous Availability Digital Information System Based on Stratus Fault-Tolerant Server	184
<i>Liu Yucheng and Liu Yubin</i>	
The Study of Driver Distraction Characteristic Detection Technology	188
<i>Liu Zhiqiang, Wsng Peng, and Zhong Jingjing</i>	
Design and Application of Data Migration System in Heterogeneous Database	192
<i>Lixian Xing and Yanhong Li</i>	
Testing and Error Analysis of Acceleration of Rotating Transformer	196
<i>Lu Xiuhe and Xue Peng</i>	
Application of Combinational Defense in Electronic Commerce—A Case Study of Ebrun	200
<i>Lv Guangge, Zhi Fenhe, Ao Jinghai, and Chen Daozhi</i>	
Research on Campus Third-Party IT Outsourcing Managed Service Platform Operation: Taking UEB as an Example	204
<i>Lv Guangge, Zhi Fenhe, Chen Daozhi, and Ao Jinghai</i>	
Research on the Risk of SCM Based on System Dynamics	207
<i>Mu Jing</i>	

Iterative Algorithm of Approximating Solutions for the System of Generalized Variational Inequalities	211
<i>Ni Renxing</i>	
Window Location for Envelope Image Based on Improved Hough Transform	215
<i>Niu Zenghui</i>	
Digital Watermarking Based on Discrete Cosine Transformation	219
<i>Pan Shengmin and Zhang Chunhong</i>	
Design and Implementation of Android Phone Surveillance System	222
<i>Pang Heming, Jiang Linying, Yang Liu, and Yue Kun</i>	
Urban Land Use Change in Chengdu City Using Satellite Data	226
<i>Peng Wenfu, Xu Huixi, Xue Wanrong, and Yang Cunjian</i>	
Studies on Information Integration of Single-Piece Small-Batch Manufacturing Based on BOM	230
<i>Peng Zucheng, Li Hui, Zhou Shuwen, and Chen Jie</i>	
Study for FAQ Processing in Internet Automatic Sales System	234
<i>Zhong Pu, Bo Wang, and Li Yang</i>	
Study on Integration and Management System of Schedule in Large Complex Construction Engineering Projects Based on Lean Construction	237
<i>Qi Shenjun, Ding Lieyun, and Luo Hanbin</i>	
Assessing Ecosystem Service Value Transfer Based on GIS in Weigan River Basin	241
<i>Qiao Xuning, Yang Yongju, and Li Chenglin</i>	
Accelerate Rendering of the Presentation Tier in Front Banking Systems	244
<i>Xiongpai Qin</i>	
A Novel Interactive Image Recommendation System	248
<i>Qirong Bo and Jinye Peng</i>	
Research on Realizing the Manufacturing Grid Multi-agent Scheduling of Resources by Using the Fusion Algorithm	252
<i>Qu Jubao, Liang Hongtao, and Liu Sheng</i>	
Building HKH Region Geographic Information Sharing Network China Node Based on GeoNetwork	256
<i>Runda Liu, Yunqiang Zhu, Yaping Yang, and Hui Zhao</i>	
A 3G Video Phone Solution of Reducing the Call Drop	261
<i>Shang Dan, Gao Yongqing, and Ping Yucai</i>	
Image Super-Resolution Based on MCA and Wavelet-Domain HMT	264
<i>Shen Lijun, Xiao ZhiYun, and Han Hua</i>	
The Research of Data Aggregation in Wireless Sensor Networks	270
<i>Shen Xueli and Wu Wenjun</i>	
Study of the Product Oil inventory Management Model Based on VMI	273
<i>Shenghua Bao and Minjie Zhu</i>	

Based on Internet/2G/3G Converged Network Intelligent Image Monitoring System	277
<i>Jianhua Sun, Deqiang Lin, Peihong Zhao, and Yang Zhang</i>	
Solar Wireless Intelligent Online Hydrological Monitoring System	280
<i>Sun Jianhua, Yang Xu, and Wang Yu</i>	
An Automatic Level Control Application Research	283
<i>Sun Ping and Zhang Haibo</i>	
Research on the Decision Model on Optimal Stopping of the Account Sale under Imperfect Information	287
<i>Sun Qingwen, Wang Xi, and Hou Yanli</i>	
Research on Framework and Tool of MDA Oriented Simulation System	292
<i>Sun Yong, Gong Guanghong, Han Liang, Song Xiao, and Li Ni</i>	
Web Services Composition Approach Based on Model-Driven and its Support Platform	296
<i>Tan Tao and Chen Yali</i>	
Design of DC-DC Converter of Single-Transistor Positive Buck Based on MC34063A	300
<i>Tang Yu and Wu Gang</i>	
The Design and Implementation of Low Voltage Motor Relay Based on Embedded System	304
<i>Wang Hong</i>	
The System of GPS Navigation Based on ARM Processor	308
<i>Wang Bo and Jia-Xu Dong</i>	
Research on Operation and Management of Mobile Informationization	313
<i>Wang Chun, Xie Zhong, and Tang Min</i>	
The Implementation of a Novel Electrically Controlled Compensation Scheme for Adaptive PMD Compensator	317
<i>Wang Gai, Zhang Yangan, Zhang Jinnan, Zhang Minglun, Yuan Xueguang, Zhou Liming, Weng Xuan, Tian Feng, and Zhang Xiaoguang</i>	
Frame Synchronization Algorithm in Energy-Efficient Data Transmission System	320
<i>Wang Haishan, Jiao Hui, Ma Cheng, and Jia Huibo</i>	
Research Based on Web Development of Spring Integration Framework	325
<i>HaiTao Wang and BaoXian Jia</i>	
Study of Intelligent Fault Diagnosis System Based on Data Mining Technology	329
<i>Wang Hongjun, Xu Xiaoli, and Han Qiushi</i>	
The Hardware Probe Connection Research of CodeTEST Based on ARM	333
<i>Wang Hui, Zhu Xiaodong, and Wang Yigang</i>	
An Application Based on Fuzzy Access Model in Pervasive Environment	336
<i>Wang Juan, Lai Siyu, Li Mingdong, and Gan Janhong</i>	

The Design and Implementation of Movable Estate Pledge Risk Monitoring Platform	341
<i>Wang Juan and Long Yun</i>	
The Research of Orthogonal Experiment Applied in Mobile Phone's Software Test Case Generation	345
<i>Wang Lingling and Li Ruitao</i>	
Design and Implementation of Industry Wireless Network Control Loop System	349
<i>Wang Ping, Zhang Haipeng, and Li Yong</i>	
A Novel Framework for Learning to Detect Malicious Web Pages	353
<i>Wang Tao, Yu Shunzheng, and Xie Bailin</i>	
Improved Services in Hospital Information System	358
<i>Wang Xiaolan, Xian Dapeng, and He Hong</i>	
An Intrusion Detection Model Based on Ant Principle	362
<i>Wang Xie</i>	
A Research on the Boost Chopper Improved by Means of Sine-wave Input	367
<i>Wei Wei and Xue Peng</i>	
Study on the Crop Suitability Analysis System Based on WebGIS in Henan	370
<i>Wen Guangchao, Xu Jiangtao, and Li Guanghui</i>	
Research on Textile Multi-fan Air Supply System Based on CFD Simulation and Theory of Statistics	374
<i>Wu Gao, Yang Ruiliang, Fan Rui, Liang Yongzhi, and Song Gaoju</i>	
Analysis of New Type Air-Conditioning for Loom Based on CFD Simulation and Single-Factor Experiment Method	378
<i>Wu Jianbo, Wu Gao, Yang Ruiliang, Liang Yongzhi, and Song Gaoju</i>	
Research on Self-Adaptive Neural Network Identification Modeling of Early-Colorectal Cancer's Fluorescence Spectra	382
<i>Sheng-feng Xi</i>	
The Weather Prediction Method Based on Artificial Immune System	386
<i>Xiang Weiguo</i>	
Key Technologies in Semi-physical Periscope Scene Simulation System	390
<i>Xiao Jianbo, Hu Dabin, and Liu Minlin</i>	
Web3D-Based VR Network Platform and its Application in Education	394
<i>Xiaofen Lin, Yuhui Yang, and Jiahua Zhang</i>	
An Integration Management System for Managing Business Continuity, Records and Knowledge	398
<i>Xiaomi An, Lemen Chao, and Liuqi Ye</i>	
IRBST:An Improved RFID Anti-collision Algorithm Based on Regressive-Style Binary Search Tree	403
<i>Xiaoyun Chen, Guohua Liu, Yukai Yao, Yi Chen, Shengfa Miao, and Youli Su</i>	

IBTA: An IBT-Tree Based Algorithm for RFID Anti-collision	407
<i>Xiaoyun Chen, Yukai Yao, Guohua Liu, Youli Su, Yi Chen, and Shengfa Miao</i>	
Application Layer Anomaly Detection Based on HSMM	411
<i>Xie Bailin, Yu Shunzheng, and Wang Tao</i>	
Research of Data-Warehouse-Based OLAP Drilling Analysis System	415
<i>Xu Bihua, Li Jian, Liao Haode, and Wang Bing</i>	
Design of the Intelligent Test Equipment of Airplane Fire Alarm System	419
<i>Xu Hengcheng, Zeng Xianlin, and Liu Xiangqun</i>	
E-commerce Logistics Model Research Based on Object-Oriented Petri Net	423
<i>Jianan Xu and Weili Yao</i>	
Mobile Sink-Based Data Gathering Protocol	427
<i>Jianbo Xu, Jian Guo, Jing Long, and Xinlian Zhou</i>	
Research and Implementation of Blind Sidewalk Detection in Portable ETA System	431
<i>Xu Jie, Wang Xiaochi, and Fang Zhigang</i>	
Research on Framework of Error Handling and Controlling Protocol in Mobile Payment	435
<i>Xu Yong and Yan Tingting</i>	
Analysis and Research of Inverted Pendulum Time-Varying Systems Based on Fuzzy Controlling Means	439
<i>Xue Peng and Wei Wei</i>	
Research and Design of a Security Framework for RFID System	443
<i>Fang Yan, BingWu Liu, LingYu Huo, and Xi Yang</i>	
Design and Realization of Image Processing System Based on Embedded Platform	446
<i>Yan Liping and Song Kai</i>	
A Design of Laboratory Information Management System	450
<i>Yang Chenghui and Chang Sheng</i>	
Author Index - Volume 2	455

2010 International Forum on Information Technology and Applications

(IFITA 2010)

**Kunming, China
16 - 18 July 2010**

**Volume 3
Pages 1 - 467**



**IEEE Catalog Number: CFP1039G-PRT
ISBN: 978-1-4244-7621-3**

2010 International Forum on Information Technology and Applications

IFITA 2010

Table of Contents

Volume - 3

Welcome Message from the General Chair of IFITA 2010 -	
Volume 3.....	xiv
Organizing Committee - Volume 3.....	xv
Program Committee - Volume 3.....	xvi
Reviewers - Volume 3.....	xvii

Section B: Engineering and Technique of Information Technology

Simulation Research of Communication Networks Based on Prim Algorithm	3
<i>Chenghui Yang and ChuanJun Ren</i>	
Adaptive Impedance Matching System	7
<i>Yang Li and Du Cheng</i>	
A Security Framework for Agent-Based Non-fixed Services Composition	10
<i>Yang Shi and Jie Lin</i>	
A Lightweight Buyer-Seller Fingerprinting Protocol	15
<i>Shun Yang, Xian'ai Long, and Defa Hu</i>	
GPS/SINS/BARO Integrated Navigation System for UAV	19
<i>Yi Jiong, Zhang Lei, Deng Jiangping, Shu Rong, and Wang Jianyu</i>	
A Prototype System for Aviation Safety Information Exchanges Based on International Comparative Research	26
<i>Yu Liling, Yang Yingbao, He Pei, and Zhao Hongfeng</i>	
The Design and Implementation of XML Semi-structured Data Extraction and Loading into the Data Warehouse	30
<i>Yue Guohua and Wang Jingting</i>	

Network Secure Transmission Based on Authentication for C/S Mode	34
Zang Mingxiang, Chen Qiuzhi, and Jiang Jianguo	
A New Power Control Scheme for WCDMA Systems Using Trellis-based Prediction Algorithm	38
Zeng Jie and Wang Hui	
The Application of Non-certificated Signcryption in Active Network	42
Zen Yalin and Guo Bin	
Research on Business Process Management Framework Based on BPEL	45
Zhai Ziqiang and Chen Hong	
An Efficiency Measure Approach for Wireless Sensor Networks	49
Zhang Changlun and Mu Haibing	
Fault Diagnosis System of Locomotive Axle's Track Based on Virtual Instrument	53
Zhang Chao, Xu Jing, and Shi Lijuan	
The Design and Development of Fire Edutainment Software and its Application Research	57
Guilli Zhang	
An Efficient Chinese Character System on Embedded Systems	61
Zhang Haibo, Gao Shenyong, Li Daqing, and Yu Feng	
Development and Application of Land-Use Planning Management Information System Based on ArcGIS	64
He-bing Zhang and Su-xia Zhao	
An Efficient Identity-Based Authenticated Email Protocol with Perfect Forward Secrecy	68
Zhang Jianhong and Chen Hua	
Query Plan Optimization and Migration Strategy over Data Stream	72
Zhang Lijie and Wang Yaxuan	
Study on Intelligent Fault Diagnosis Expert System for Radio Compass	76
Zhang Xiaoyu and Cai Guifang	
Research on a General Teachers Evaluation Management System	80
Zhang Zhiyu, Yan Xiujuan, Li Li, and Wu Baogui	
Study on Magnetic Field Distribution for the Catenary System	84
Zhao Liping, Dong Zhaode, and Li Zhongxi	
Research and Design of Land-Use Planning Implementary Evaluation Aid Decision-Making System Based on GIS	89
Su-xia Zhao and He-bing Zhang	
Research on Integrated 3G Network into a Digital Library Services Model for Reader	92
Zhao Yan, Su Yuzhao, Wang Liya, and Li Fang	
The Design and Simulation of Fuzzy PID Controller	95
Yongjuan Zhao and Yutitan Pan	

Optimization of Grid Resource Allocation Using Improved Particle Swarm Optimization Algorithm	99
Zhi-yun Zheng, Tian Zhao, Yong-tao Zhang, and Li-ping Lu	
Grey Correlation Evaluation Based on Rough Set in Combat Effectiveness for Avionics System	104
Zheng Xuebing, Zheng JinJin, and Wang Lianwu	
Towards Model of Tobacco Delivery Based-on Multi-dimensional Convergence of Spatial Information	108
Zhipu Zheng and Hua Wang	
Research of Tax Revenue Intelligent Forecast System	112
Yu Zhilou and Ji Hua	
A Perfect Pass-Parallel EBCOT Tier-1 Coding Scheme	115
Zhong Cuixiang and Huang Minghe	
Status and Development Strategies on Chinese Comparison Shopping Site	119
Zhou Qihai and PuBuZhuo Ma	
Reconstruction and Deformation Analysis for the Industry Equipments Based on 3D-Scanning Technology	123
Zhou Qiusheng, Hu Chunmei, Yu Wentao, and Meng Xianglai	
Research of the Artificial Immune Intrusion Detection System Model Based on the E-learning	126
Zhou Shaojing	
The Research of Inner-cluster Nodes Scheduling Algorithm in mWSN	131
Xin-lian Zhou and Jian-bo Xu	
A Semantic Adaptation Method and System	135
Zhu Jiang, Jiang Jun, and San-ping Li	
A Novel Approach for Time Series Analysis Based RBF Neural Network	139
Kaiqi Zou and Renfei Dong	
Section C: Comprehensive Application, Education-Training, and Others on Information Technology	
The Application of Data Mining Technology in Distance Learning Evaluation	145
Ai Yubing and Zhang Jianping	
Research on Structure of Talent Training Oriented Service Outsourcing	149
Bei Fan and Hong Bao	
Predicting Water Irruption Quantity from Coal Floor Based on Wavelet Neural Network	154
Cai Li, Tong Minming, and Dong Haibo	
A Study of Textbook Construction for Information Technology Course in College	158
Chen Chen and Yang Min	

The Empirical Study of VaR Model in the Evaluation of the Investment Risk of the Fund	162
<i>Chen Hongming and Gao Yuanyuan</i>	
Briefly Discuss on Enterprise Risk Prevention from Lehman's Bankruptcy	165
<i>Chen Hongming and Mu Qian</i>	
Quantile Regression Analysis of Cross-Section Returns in Chinese Stock Market	169
<i>Chen Jianbao, Xu Yanping, and Cheng Tingting</i>	
Earnings Management and Ownership Retention for Initial Public Offering Firms in China	173
<i>Chen Xiaolu, Xu Jing, and Yao Kaohua</i>	
Research of Informationization Entrepreneurship Education's Essence and Characteristic	177
<i>Delin Sun, Wen Shi, Jinyun Xue, Puyuan Tang, Xintao Tang, Zhen Hu, Shelin Ye, and Huan Dai</i>	
Analysis on the New Era of China's Social Key Interests and the Principle of Coordination	181
<i>Fa Lina</i>	
Efficient Collision Detection Using a Dual K-DOP-Sphere Bounding Volume Hierarchy	185
<i>Fang Zhigang, Jiang Jianxun, and Xu Jie</i>	
Stochastic Differential Equations Numerical Simulation Algorithm for Financial Problems Based on Euler Method	190
<i>Fuyun Li and Yuezu Cao</i>	
2.45GHz-band Reader Antenna Based on High-Impedance Surface	194
<i>Gong Haibo, Wu Yueshan, and Liu Yichang</i>	
Cross-Cultural Differences of Entrepreneurs' Error Orientation: Comparing Chinese Entrepreneurs and German Entrepreneurs	198
<i>Guo Weiwei and Zhao Xiaodong</i>	
Cross-Cultural Differences of Error Climate between Chinese and German Entrepreneurial Firms	202
<i>Guo Weiwei and Zhao Xiaodong</i>	
Contribution of Component Factors to Internet Addiction Disorder for Vocational Students	206
<i>Huang Guanli, Jia Ru, Huang Guanhua, and Wu Rengang</i>	
An Application of DSP and CPLD Based Platform to Adaptive PMD Compensation	210
<i>Jinjing Tao, Yangan Zhang, Jinnan Zhang, Xueguang Yuan, Minglun Zhang, and Xiaoguang Zhang</i>	

Delineation of Watershed and Estuarine Drainage Areas for Major Rivers Discharge into Coastal Waters in China	214
<i>Jinliang Huang, Qingsheng Li, Juying Wang, Yingying Hu, and Jie Lin</i>	
Optimum Power Allocation for Maximizing the Capacity both with Nonzero Mean and Covariance at the Transmitters	218
<i>Jin Libiao, Zhang Naiqian, and Li Jianzeng</i>	
Reform of Computer Graphics Teaching Method	222
<i>Jun Zhou, Ming Ye, and Chun-Lun Huang</i>	
Analysis on the Grey Correlation of Education Investment, R and D Investment and Economic Growth—A Case Study of Six Provinces of Central China	226
<i>Li Guangping</i>	
Numerical Simulation of AZ31 Magnesium Alloy Isothermal Forming	230
<i>Xu-bin Li and Zhi-min Zhang</i>	
Research of Privacy Protection Mechanism of TPM	234
<i>Li Xueyong, Feng Zhihui, Fu Junhui, and Xiao Wenxian</i>	
A Kind of Discrete Variable Structure UCAV Guidance Law Restrict by the Entering Angle	237
<i>Li Zhaoqiang, Zhou Deyun, and Xu Jiadong</i>	
Analysis of the Validity of Wuhan Sustainable Development Based on DEA	241
<i>Li Zhihong</i>	
EURP: Extended Framework of University Resource Planning	245
<i>Liang Hao, Ren Fei, and Chen Jian</i>	
Study and Application of Embedded Teaching Method in Data Warehouse Course	249
<i>Lin Jing</i>	
High-Resolution RCS Measurement Inside an Anechoic Chamber	252
<i>Linxi Zhang, Kai Ding, Nanjing Li, and Jie Ren</i>	
Sequence of Overlapping Coupling Tasks in Concurrent Development Process	256
<i>Liu Jiangang, Ding Henglong, and Liu Yuan</i>	
The Method of Dynamic Service in E-learning System	259
<i>MinLi Liu, Chao Yu, and Dan Mu</i>	
Network Teaching Model Based on the Concept of Eco-psychology	263
<i>Liu Minna</i>	
Research on Variable Direction Rotatable Axis Variable Vector Propeller of AUV in Vertical Motion	267
<i>Liu Sheng, Ren Dong, Li Bing, and Chang Xucheng</i>	
The Quality of Talent Cultivation Calls for New Teaching Model	271
<i>Liu Wei and Wang Hong</i>	

Construction and Implementation of the ‘434’ Network Professional Practice Teaching Model under the Regional Environments	275
<i>Liu Wenzhi and Liu Zhaobin</i>	
On the Research and Development of a Japanese Audio-visual Courseware	279
<i>Liu Xiling and Feng Yuanyuan</i>	
A Model for a ‘Bi-professional’ Teacher’s Access to Practical Knowledge	283
<i>Liu Zhaobin, Liu Wenzhi, and Wu Jianping</i>	
Construction of Web-delivery Elaborate Courses Based on Blackboard: As an Example to the Course for Basic Circuit Analysis	287
<i>Lu Ling and Han Lie</i>	
Hierarchy Analysis on Three-Level Comprehensive Hospital Competitiveness Evaluation in Jiangxi Province Based on Rough Set	290
<i>Lu Xiaoyong, Li Liqing, and Chen Hua</i>	
Video-Based Detection of Abnormal Behavior in the Examination Room	295
<i>Lu Yong and He Dongjian</i>	
A Comprehensive Evaluation Method of Logistics Company’s Credit Risk Based on Logistics Finance	299
<i>Luo Jianfeng, Zhou Lingyun, and Ma Tianshan</i>	
Ontology-Based Description of Teaching Knowledge with Increment Feedback Function	303
<i>Mao Yunge, Guo Shuxin, and Li Yandong</i>	
40Gb/s Pol-Mux RZ-DQPSK Transmission with Electric Dispersion Compensation	308
<i>Mi Lin, Jinnan Zhang, Yangan Zhang, Minglun Zhang, and Yongqing Huang</i>	
Study of the Risk Based on Product Oil Transportation Logistics by Fuzzy Analytic Hierarchy Process	311
<i>Minjie Zhu and Jiangwei Zhang</i>	
Teaching Reform Research and Practice of Course “Software Design and Development”	315
<i>Peng Tao, Sun Lianying, Fan Lili, and Bao Hong</i>	
A Shopping Model in Ubiquitous Media Environment	319
<i>Qi Chunxia, Zhu Zhenzhong, and Zhang Litao</i>	
The Design and Implement of Educational Resource Sharing Platform Based on Web Service	323
<i>Ren Changquan, Luo Xuefeng, Wang Yukuo, and Zhou Yanhong</i>	
An Immunological Approach to Filtering Email	327
<i>Song Gang and Hu Qiang</i>	
An Overview of Incremental Hash Function Based on Pair Block Chaining	332
<i>Su Yunling and Miao Xianghua</i>	
A Study on Functions and Impact Factors of Wetland	336
<i>Sun Yimin, Wang Tieliang, and Jin Shengji</i>	

IT Effects on Higher Education for the Deaf: A Research on Graduate Employability	340
<i>Tong Xin, Zhou Bin, Tan Han, and Lu Cailing</i>	
A Study on a Computer-Based Corpus Approach to College English Writing	344
<i>Wang Botao, Yang Min, and Song Yunxia</i>	
Study on the Unified and Formalized Description of the Component Using the Category Theory	348
<i>Wang Haitao, Chen Xing, and Jiang Ying</i>	
Open Medical Information to Reduce Excessive Treatment in China	352
<i>Wang Zhigang</i>	
Analysis on the Information Security Education for the Public Security Active Forces Academy	355
<i>Chunying Wu</i>	
Application of Decision Support System in Business Enterprise Management	358
<i>Wu Wei and Huang Yong</i>	
Consumption-Crowded Public Goods Model and the Optimal Size of China's Fiscal Expenditure: 1978-2006	361
<i>Wu Qunli</i>	
A Method of Detecting Vulnerability Defects Based on Static Analysis	365
<i>Xiao Qing, Yang Zhao Hong, and Gong Yun Zhan</i>	
Research on Case Teaching Method of Photoshop Course	369
<i>Xie Nan, Sun Xinxin, Zhang Haibo, and Zhu Yijia</i>	
A Study on the Relationship Between IT Capabilities, Organization Structure and Enterprise Performance: Empirical Research through the Manufacturing Enterprises in PRD	373
<i>Xie Weihong, Wang Yongjian, Jiang Luan, and Zhang Guangyu</i>	
Empirical Analysis: The Parameter and Internal Rate Return (IRR) of Wind Power Factory in China	377
<i>Shaoyu Xiong and Xiaodong Li</i>	
Research of Fuzzy Comprehensive Evaluation Model for Displacement Efficiency of Cementing	381
<i>Xu Bihua, Li Jian, Liang Dachuan, and Yang Changxue</i>	
Perspectives on GIS Development in China	385
<i>Xu Chengfu, Ma Xiaojun, and Wang Yujian</i>	
Research on Strategy of Mobile Social Networking Business of China's Operators	389
<i>Xu Kaixuan and Long Yuting</i>	
Analysis of Theme Relevance of Tibetan Web Integrating Content Evaluation and Link Value	394
<i>Xu Tao, Yu Hongzhi, Dai Yugang, and Chen Xugang</i>	

Analysis of Strategic Enterprise Management on the Background of Information	398
<i>Xu Zhaoyong</i>	
On Theoretical Foundations of CALL: Constructivism and Input-Output Hypothesis	402
<i>Yang Min, Song Yunxia, and Sun Zhuo</i>	
Practice and Research on Tridimensional Teaching Resources Construction of the Course of Computer Networks	406
<i>Lan Yao, Fuxiang Gao, and Bo Wei</i>	
Research of CTI Applications System of Small and Medium-sized Enterprises Based on Voice Card	409
<i>Yongchao Chen, Yahui Ma, and Huiping Cheng</i>	
A Study on Innovations of E-business Models for Chinese Tourism Industry	413
<i>Yu Ping</i>	
Applying Research of Mobile Learning Mode in Teaching	417
<i>Yuan Jiugen, Xing Ruonan, and Wang Jianmin</i>	
Analysis on Uranic Slope Stability Based on Neural Network	421
<i>Yufeng Zhu, Xiaoli Ding, Zhiwei Li, and Shijian Zhou</i>	
A Client Puzzle Based Defense Mechanism to Resist DoS Attacks in WLAN	424
<i>Zhang Laishun, Zhang Minglei, and Guo Yuanbo</i>	
Design Investigation to the Synthesis Test Platform for Airplane Finished Product	428
<i>Zeng Xianlin, Zou Tao, and Xu Hengcheng</i>	
Research of Retrieving Model for Digital Library Based on Semantic Grid	431
<i>Zhang Jidong and Yang Ting</i>	
The Construction of Course System of Educational Economics and Management as a Cross-Disciplines	435
<i>Zhang Lina and Qiu Fazong</i>	
An Empirical Study on the Relationship Between Entrepreneur's Social Network and Entrepreneurial Performance: The Case of the Chinese IT Industry	440
<i>Zhao Xiaodong, Guo Weiwei, and Mark Greeven</i>	
Some Key Problems on Cophase Traction Power Supply Device	444
<i>Zhao Yanling, Zhao Liping, and Li Qunzhan</i>	
Study and Simulation of Large Volume Air-Gun Array Based on Ziolkowski Model	450
<i>Zhi Pengyao, Liu Baohua, Pei Yanliang, Liu Chenguang, Kan Guangming, and Wang Liming</i>	
The Research of E-commerce Credit Trade Mode Based on Third-Party Payment	454
<i>Zhou Li and Liu Bingwu</i>	

Research and Application of a University Public Data Platform: Taking
the Case of Beijing University of Civil Engineering and Architecture458
Zhu Jielan and Sun Xuhua

Author Index - Volume 3463