

2011 International Conference on Computer and Management

(CAMAN 2011)

**Wuhan, China
19 – 21 May 2011**



**IEEE Catalog Number: CFP1125M-PRT
ISBN: 978-1-4244-9282-4**

TABLE OF CONTENTS

The Appraisal Tactics for Internal Cost and Its Numerical Simulation Based on Real Data	1
<i>Y. Ma, L. Li, Y. Wu</i>	
Dynamic Supergames On Rectangle Lattice Based On Four Person Team Games	5
<i>A. Wang, Z. Ye</i>	
A Request Skew Aware Heterogeneous Distributed Storage System Based On Cassandra	9
<i>Z. Ye, S. Li</i>	
Design of a Wireless Medical Monitoring System	14
<i>Z. He, W. Xu, G. Liu</i>	
Design of a Handheld UHF RFID Reader for The Internet of Things	17
<i>Q. Lei, G. Wang, D. Wang</i>	
Based on Improving Students' Self-learning Ability Sports Physiology Multimedia Experimental Study	21
<i>L. Sun, S. Liu</i>	
Fallback Revision with Important Multi-Subsets	24
<i>M. Wu</i>	
Research And Realization of Software Radar Signal Processing Based on Intel MKL	28
<i>W. Xu, H. Cha, M. Zhou</i>	
Image Segmentation Using Energy Minimization And Markov Random Fields	34
<i>F. Liu, J. Gong</i>	
Design and Implementation of Geospatial Information Database in Mobile Internet	38
<i>D. Hu, N. Chen, Q. Cao</i>	
Cointegration Analysis and ECM of Energy Consumption and Industrial Economic Growth of China	42
<i>Y. Tan, Y. Yin, D. Yang</i>	
A Novel Risk Assessment Model for Software Projects	46
<i>M. Uzzafer</i>	
Research On Various Coordinate Systems In High Speed Train Control Visual Simulation	51
<i>L. Luo, B. Guo, Y. Deng</i>	
A Novel Method for Capturing Healthy Image Data in Hospital Legacy Systems	55
<i>Z. Qin, S. Qin, J. Liu</i>	
A Optimisation Algorithm with Data Analysis and Control Platform	60
<i>S. Yang, A. Kokossis, F. Cecelja</i>	
An Improved Bounding Cube Algorithm in Wireless Sensor Network	65
<i>P. Lin, Z. Wu, T. Wang, H. Cao</i>	
Optimization Based on Ant Colony-Genetic Algorithm in Oilfield Water Injection System	69
<i>Yuxue Wang, Yinfeng, Wang</i>	
DB: A Developed 3D Positioning Algorithm in WSN Based on DV-Hop and Bounding Cube	72
<i>S. Yang, Z. Bo, W. Kun, C. Hui</i>	
Impact on Software Development by Innovative Team Organization Form	76
<i>H. Yu, Z. Chang</i>	
Compression Algorithm for Aeroengine Test Data	80
<i>Y. Xun, T. Xin, S. Wei, Y. Ji</i>	
Study on Establishment of Armored Equipment PHM System based on aFMEA	84
<i>Y. Song, C. Chen, Y. Cao</i>	
Numerical Simulation of Slope Stability Based on FLAC3D	88
<i>H. Ye, Q. Kang, D. Nong, J. Chang</i>	
Regular Mesh Simplification	92
<i>C. Chiang, B. Jong, T. Lin</i>	
An Effective Design Method of System Function Test Cases	96
<i>Q. Du, H. Zhang</i>	
Computer Data Mining and Exploration of The Audit Practice	100
<i>D. Chen, T. Li</i>	
Reliability of Object Oriented Systems with Markov Transfer of Control	105
<i>C. Yadav, R. Singh</i>	
Video Stabilization By Sparse and Low-rank Matrix Decomposition	108
<i>B. Gao, Z. Kou, Z. Jing</i>	
Stochastic Context-Aware Saliency Detection	113
<i>B. Gao, Z. Kou, Z. Jing</i>	

EFSM Task Scheduling Model Research in the SOA Integration Platform	118
<i>Z. Deng, R. Wang</i>	
Urban-rural Coordination Degree Modeling for Beijing City	121
<i>T. Jun, Q. Wei</i>	
A Diagnosis Method for Water-Steam System of Power Plant Based on Credibility Theory	125
<i>S. Yao, H. Yan, A. Mei, J. Hu</i>	
Code Rocket: Improving Detailed Design Support In Mainstream Software Development	129
<i>S. Parkes, C. Ramsay, A. Spark</i>	
Long Term Generation Optimization Using Stochastic Dynamic Programming	133
<i>H. Xu, W. Rao</i>	
A Privacy Preserving Algorithm for Mining Distributed Association Rules	137
<i>Y. Zhu, Y. Tang, G. Chen</i>	
A Node Sleeping Algorithm for WSNs Based on the Minimum Hop Routing Protocol	141
<i>Z. Ren, S. Shi, Q. Wang, Y. Yao</i>	
On the Global Convergence of Nonmonotone Trust Region Algorithms for Nonsmooth Optimization	145
<i>M. Xi, H. Zhou</i>	
Study on Simulation Model of Combination Station for Heavy Haul Trains	148
<i>J. Zhang, B. Liu</i>	
Research of Lung Cancer Screening Algorithm Based On RBF Neural Network	152
<i>T. Wang, J. Lv, B. Liu</i>	
Optimal Design for Facility Workshop Layout Based on Genetic Algorithm	156
<i>T. Lu, C. Lu, H. Zhang</i>	
Improved FCM algorithm for Clustering on Web Usage Mining	160
<i>K. Suresh, R. Mohana, A. Reddy, A. Subramanyam</i>	
New Lower Bounds for Two Multicolor Vertex Folkman Numbers	164
<i>Z. Shao, M. Liang, J. He, X. Xu</i>	
Architecture for Integrating Heterogeneous Distributed Databases Using Supplier Integrated E-Commerce Systems as an Example	167
<i>L. Frank</i>	
Simulation of Furnace Cascade PID Control System Based on Matlab / Simulink	171
<i>H. Zhang</i>	
Truncation Scheme for Recursive Multipliers	174
<i>P. Bharkhada, R. Muscedere, H. Wu</i>	
Genetic Algorithm Structure Optimization For The Schedule Task Solution	178
<i>D. Bogdanovich, A. Ziyangirov</i>	
A Curriculum Scheduling System Based on Pooling Algorithm	181
<i>F. Lu</i>	
New Exact Solutions For A Compound KdV-Burgers Equation With Symbolic Computations	185
<i>D. Zhang, T. Xia</i>	
A Cellular Automaton Model For Two Competitive Populations With Allee Effect And Overcrowding Effect	189
<i>W. Li, X. Guo</i>	
Simulation Based Assessment Of Energy Consumption Optimization In 3G Mobiles	194
<i>T. Oliveira, E. Ursini, V. Timoteo</i>	
Forecast of Non-Performance Loan Ratio of Chinese State-Owned Commercial Bank	199
<i>P. Li, R. Zhang, M. Zhuo, L. Feng</i>	
An Improved Approach to Terms Weighting in Text Classification	203
<i>Z. Ma, J. Feng, L. Chen, X. Hu, Y. Shi, Z. Ma</i>	
Biological Entity Boundary Detection Using ME Model	207
<i>J. Wang, Z. Ju, F. Zhu</i>	
Location of Microaneurysms on Diabetic Retinopathy Images Based on Extraction of Connection Components	210
<i>Q. Qi, Q. Zhao, H. Deng</i>	
Design and Implementation of BIOS for Godson-3A Interconnections	214
<i>Y. Gao, M. Zhu, J. Huo, L. Xiao, Y. Xiao</i>	
Structured Dynamic Program Slicing	219
<i>R. Zhang, Y. Zheng, S. Huang, Z. Qi</i>	
The Application and Research of the Spanning Tree in the Project Based on Database	223
<i>J. Guo, W. Diao</i>	
Research of the Middleware based Quality Management for Context-aware Pervasive Applications	227
<i>D. Zheng, H. Yan, J. Wang</i>	

Estimating the Connection Probability for 2-D Mesh Networks by Monte Carlo Methods	231
<i>M. Liang, B. Liang, Z. Shao, X. Xu</i>	
An Open, Secure and Flexible Platform Based on Internet of Things and Cloud Computing for Ambient Aiding Living and Telemedicine	236
<i>X. Zhang, N. Zhang</i>	
Evpool: New Power Management Framework for Data Centers	240
<i>F. Gao, Q. Huang, R. Wang</i>	
Fragile Watermarking Scheme for Tamper Detection of Relational Database	244
<i>J. Guo</i>	
Construction Of PTN Based Information Transmission System	248
<i>S. Liu, R. Chen</i>	
The Study of One Online Social Network Based on Structure and Evolution	252
<i>Z. Wu, C. Chen</i>	
Trust And Its Challenges Facing E-Government Programs In Kenya	256
<i>F. Musau, C. Wilson, J. Mushi</i>	
Connectivity as a Service: Outsourcing Enterprise Connectivity over Cloud Computing Environment	260
<i>N. Yong, X. Liang, Z. Kai</i>	
Glocal Computing	267
<i>Y. Cai, J. Huang, K. Huang</i>	
Design and Implementation of Rights Management System Based on RBAC Model	271
<i>X. Wei</i>	
A New Algorithm for Stable Communication in Wireless Emergency Network	275
<i>X. Ma, Q. Huang, Y. Kang</i>	
An Empirical Study of College Students' Online Shopping Behaviors	279
<i>S. Li, L. Liang</i>	
The Design of Dynamic Workflow Based on Document Flow System	283
<i>S. Qi, C. Chen</i>	
Research On A Normal File Encryption And Decryption	286
<i>G. Yandji, A. Youssouf, L. Hao, J. Ehousson</i>	
Computer Fraud and Ethics: The Societe Generale's Trading Fraud	290
<i>J. Lim, N. Hwa</i>	
Principals Of Trust In Internet Security And Websecure Environment	293
<i>F. Musau, C. Wilson, J. Mushi, J. Modie</i>	
How Computer Technologies May Change The Way Women Buy Apparel	297
<i>M. Faust, S. Carrier</i>	
Storage System Optimization in Data-intensive Environment	301
<i>X. Zhang, X. Zhao</i>	
The Information Ecological Analyze of Application Plight of Urban Public Information Kiosk in China	307
<i>S. Zhao, X. Hou</i>	
Scalability Analysis in Wireless Sensor Network with LEACH Routing Protocol	311
<i>D. Patel, M. Patel, K. Patel</i>	
A Communication-Efficient Threshold Monitoring Method For Distributed Systems	317
<i>X. Zhou, S. Li</i>	
An Energy-Efficient Unequal Clustering Method for Wireless Sensor Networks	321
<i>H. Yuan, S. Yang, Y. Yi</i>	
Strategy Research for Further Application of E-business in Pump Enterprises - Wenling Pump Enterprises as an Example	325
<i>M. Hou</i>	
A Novel Extended Algorithm for Network Security Situation Awareness	328
<i>S. Song, Y. Zhang</i>	
A Distributed Management of Massive Remote Sensor Data Using Open Source Software	331
<i>Z. Gao, Z. Lv, H. Zhao, J. Hu, B. Li, F. Huang</i>	
A Research to Data Management in Savant based on Data Grid	335
<i>L. Lin, L. Hu, X. Che</i>	
A Sink-controlled Energy-efficient and Geographical Routing Protocol in Wireless Sensor Networks	338
<i>C. Li, F. Pu, A. Gu, L. Liu, Q. Cao</i>	
Cloud Computing: Deployment Models, Delivery Models, Risks And Research Challanges	342
<i>L. Savu</i>	
A Cloud Storage Architecture Model for Data-Intensive Applications	346
<i>Y. Huo, H. Wang, L. Hu, H. Yang</i>	

Capacity of Product Design, Financial Service and Performance of Small and Medium Manufacturing Enterprises.....	350
<i>L. Ming</i>	
A Service-Oriented Architecture Suite for Sensor Management in Distributed Surveillance Systems.....	355
<i>A. Hilal, A. Khamis, O. Basir</i>	
The Influence of Regional Culture and Value on the Flow of Chinese Young Talents.....	361
<i>D. Wu, P. Gao, J. Dong, C. Graziul, T. Clark</i>	
Exchange Rate Pass-through to Import and Export Prices: Empirical Analysis in China	365
<i>Y. Li, X. Huang, Z. Wang</i>	
Analysis on the Environmental Effects of FDI in China	371
<i>L. Liu, L. Wang</i>	
Study on Chinese Corporate Social Responsibility Evaluation Based on Fuzzy C-means Clustering.....	375
<i>J. Sun, H. Zhao, T. Xia, F. Hu</i>	
Influence of Producer Services on Regional Innovation Capability in China: an Empirical Study	379
<i>Z. Xie</i>	
Research on Price and Differentiation Game between Private Label and Manufacturer Brand	383
<i>F. Ren</i>	
Cultural Impact On Human Resistance – A Study Of Companies Implementing Knowledge Management Software.....	387
<i>V. Madhusudan, G. Nagalingappa</i>	
Using Bayesian Networks to Model Operational Risk of Bank.....	391
<i>J. Liu, R. Liu</i>	
The Research on the Risks & the Countermeasures of the Distributed IT Projects.....	395
<i>Y. Zhu, C. Liang</i>	
Collaboration Management System for Ecological Enterprises	399
<i>X. Zhang, P. Liu</i>	
Moderating Roles of Gender and Organizational Level between Work Stress and Job Satisfaction among Chinese Hospitality Employees	403
<i>S. Guo, S. Li</i>	
Influence Of Correlation Coefficient Of Lead Time On Bullwhip Effect: Establishing A New Era Of Modelling In Corelated Time For Supply Chain	407
<i>P. Hurde, S. Agrawal</i>	
BPR of Equipment Manufacturing in Low-carbon Economy Mode.....	412
<i>Y. Tan, Y. Yin, D. Yang</i>	
Seasonal Migration of Metropolitan Retirees and Rural Leisure Tourism Development in the Context of Aging Society: A Study of Two Villages in Zhejiang Province	417
<i>S. Li, S. Guo</i>	
The Pricing of Credit Risk under Reduced-form Model.....	421
<i>H. Peng, X. Tao</i>	
Gray Correlation Analysis Of Fuel Load And Stand Factors.....	425
<i>C. He, Q. Huang, S. Shen, F. Wang</i>	
Empirical Studies On Influences Of Managerial Ownership On Firm Performance: On The View Of Management Buyout	428
<i>P. Cheng</i>	
Optimized Design on Marketing Model of Tourism Destination from Perspective of Regional Wholeness.....	432
<i>Y. Xiong, X. Jiang</i>	
Tracking Error Portfolio Problem With WCPLM1 And Weights Constraints	436
<i>A. Ling</i>	
The Empirical Analysis On Relations Between R&D Input And Economic Growth	440
<i>A. Zhang</i>	
Eliminating Cycles in Model Net	444
<i>C. Qi, H. Pan</i>	
Measuring Brand Overlap Using Optimal Error Rate Analysis	448
<i>T. Xia, H. Zhao, F. Hu, J. Sun</i>	
Higher Education Curricula For Services Science.....	452
<i>G. Motta, T. Barroero, G. Pignatelli</i>	
Dimension Structure of Competency for Domestic City Commercial Banks Management	457
<i>X. Gang</i>	
Logistics Performance Evaluation of Logistics Enterprise Integrated with KPIs and FAHP Model.....	461
<i>Z. Lu, C. Lu</i>	

Extension Method of Safety Evaluation and Its Application	465
<i>Y. Yang, W. Wang, L. Wu</i>	
Improved Grey Correlative Method for Risk Assessment on Coal and Gas Outburst	469
<i>L. Wu, Y. Yang</i>	
The Application of Fuzzy-AHP on Risk Assessment of Construction Project	473
<i>W. Liu, W. Feng, W. Zhen</i>	
A Method for Group Decision Making with Multi-granularity Interval Reciprocal Linguistic Judgment Matrix	476
<i>H. Liu, J. Cai</i>	
Research On Flow And Pollutant Diffusion At The Fen River Entrance Into Yellow River	480
<i>X. Xing, J. Hou, M. Feng, Z. Hou</i>	
Study on the Ecological Basic Flow and Water Shortage of Sushui River	484
<i>J. Yang, M. Feng, J. Bai, L. Zhang</i>	
Supply Chain Coordination Under Revenue-Sharing Contract With Sales Effort Effect	488
<i>D. Hu, Q. Li</i>	
The Bond Pricing Model on Fractional Jump-diffusion Process	492
<i>H. Xue, S. Yang, J. Li, X. Wu</i>	
Analysis of Influence Factors on Sludge Wall Slip	495
<i>X. Zhang, H. Tang, L. Zhang, M. Feng</i>	
Successfully Executing Strategy by Implementing the Balanced Scorecard	501
<i>M. Werner, F. Xu</i>	
Research on the Supporting Role of Information Integration to Supply Chain Management in Large Retail Enterprises	506
<i>G. Zhou</i>	
Research on Prediction and Decision-making Policy in Power Marketing System	511
<i>C. Liu, H. Zou, W. Li</i>	
The Project Risk Management Mode Research Of Construction Enterprises	515
<i>C. Li, T. Liu, X. Zhou</i>	
Game Analysis of Breaking the Dilemma of Knowledge Sharing between Organizations	519
<i>H. Tang</i>	
Investigation on Strategy of Development and Training of Highly Skilled Workers in Guangxi	522
<i>S. Yang, C. Lu, G. Li, Q. Chen</i>	
Analysis on the Competitiveness of Search Engine Enterprises Based on the Financial Perspective - A Case Study of Baidu and Google	526
<i>T. Mu, M. Wang</i>	
A Prototype Of Emergency Management Information System Using GIS Technologies	530
<i>J. Yuan, F. Wang, Q. Huang, Y. Yuang, H. Yong</i>	
The Research on the Organization Structure Transformation in Aviation Enterprise of China	534
<i>B. Liu, C. Hu</i>	
An Analysis Framework for Enterprise Knowledge Integration Based On WSR System Methodology	538
<i>H. Su, S. Tian</i>	
Application of Hyper Spectral Remote Sensing for Urban Forestry Monitoring in Natural Disaster Zones	542
<i>H. Zhang, H. Song, B. Yu</i>	
Study on the Life-cycle Carbon Emission and Energy-efficiency Management of the Large-scale Public Buildings in Hangzhou, China	546
<i>Y. Tian, J. Ge, Q. Zhao</i>	
Research On The Characteristics Of Supply Chain Risk Conduction Based On The Self-Organization Theory	552
<i>X. Zhao, J. Liang, X. Zhao</i>	
On Transmission Mechanism From Social Security To Consumption Using First Order Difference Function	556
<i>J. Wang, Y. Luo, H. Zhang, S. Li</i>	
The Influence Of Medium On Individual's Choices: A Study Of "Self-Consciousness" As Moderating Variable	560
<i>X. Zheng, L. Zhang, J. Yin, Y. Xue</i>	
A Brief Analysis on Emergency Management Capabilities of Logistics Enterprises in China	566
<i>X. Song, B. Zhao</i>	
Factor Analysis and Evaluation on A Foundation of Comprehensive Performance of Listed Companies	570
<i>Z. Yin, P. Yu</i>	

Constructing D-Index from Panel Data Set and its Extreme Risk	574
<i>Z. Ning</i>	
The Suggestion To Strengthen The Science Popularization To Enhance The Capacity Of Sustainable Development Of High-Tech Zone: Case Study Of Hangzhou High-Tech Zone	578
<i>C. Chen, H. Chen, L. Wang</i>	
Research On Upgrading International Green Competitiveness Of Export Manufacturing Enterprise In China	583
<i>L. Diao, J. Shao</i>	
No-Arbitrage and State Prices in Frictional Markets	587
<i>H. Dong, Y. Zhang</i>	
Research on Teamwork Mechanism and Teamwork Efficiency from the Perspective of Fairness Preference	591
<i>X. Li, P. Xian, J. Zhu</i>	
Study on the Connotations and Impact of Green Procurement for Forest Product	598
<i>X. Li</i>	
Study On The Recognition Model Of Network Power	602
<i>S. Zhao</i>	
The Analysis of Factors Affecting SO₂ Emission of Chinese Industry	606
<i>Y. Han, X. Xiong, Y. Liu, R. Pan, Y. Zhang</i>	
Profound Influences of Evolution of Management Theories on Development of Accounting Science	617
<i>G. Wang</i>	
Research on the Relationship Between Employee Commitment and Turnover in the Equipment Manufacturing Industry of Shenyang	621
<i>C. Yu</i>	
The Research On Institutional Factors Upgrading Of Enterprises In Chinese Industrial Clusters	625
<i>G. Liu, H. Xiao</i>	
Analysis and Evaluation for the College Financial Risk based on Fuzzy Mathematics	628
<i>M. Ni, W. Chen</i>	
Managing Expertise: Toward the Socio-Technical Perspective	632
<i>C. Wang, H. Chang</i>	
Performance Evaluation Of Enterprise Knowledge Management Based On Factor Analysis	636
<i>K. Cui</i>	
Research on the Application of Balanced Score Card in Performance Evaluation of Supply Chain	640
<i>L. Zhou</i>	
Study on Evolutionary Game between Core-enterprise and Suppliers in Green Supply Chain	644
<i>Y. Hu, Y. Li</i>	
A Hybrid Approach For Part-Of-Speech Tagging Of Burmese Texts	648
<i>C. Myint</i>	
Integrated Approach of Quality Function Deployment to Quality Assurance of Service Products Design	652
<i>N. Wang, J. Xu, Y. Wang</i>	
Building Energy-Saving Performance Control Theory and Application Research Based on Simulated Annealing Algorithm	656
<i>H. Li, J. Zhang, C. Yue</i>	
The Economically Designed SVSSI Xbar Control Chart	660
<i>L. Cheng, Z. Guo</i>	
Optimal Preventive Maintenance Strategy based on Risk Assessment	664
<i>Y. Wang, G. Liang, N. Wang</i>	
User-Centered Design In New Product Development: A Case Study In Developing New Sports Earphone	668
<i>N. Tu, T. Zhang, Q. He, H. Zhang, Y. Li</i>	
Assumption Analysis And Duration Simulation Of Three-Point Estimate In PERT Technique	675
<i>X. Lei</i>	
Analysis of Construction Quality Accident Causes of Public Buildings Based on Failure Study Theories	679
<i>J. Cui</i>	
Global Virtual Teams: How To Manage Them	683
<i>J. Ka, K. Rosin</i>	
Study on the Coupling Mechanism of Energy-Conversion in Chinese Buildings	687
<i>H. Li, J. Zhang, T. Zhou</i>	
Construction and Integration of Recycling Enterprises' Value Chain	691
<i>H. Pan</i>	

Game Theory-Based Research on Revenue Allocation Model for Stakeholders' Harmonious Integration of Construction Project	695
<i>Y. Ao, Y. Wang</i>	
Analysis Of Financing Problems Of Listed Companies On The GEM	699
<i>Q. Yue, R. Li</i>	
A New Method For Three-Dimensional Earth Model Visualization	703
<i>X. Zheng, P. Jin, P. Sun</i>	
A Study on the Motivators of Transnational Operations of Chinese Commercial Banks	707
<i>Luolan</i>	
The Study on the Influence and Prospect of Brand Trust	711
<i>B. Wang, L. Guo, H. Tian</i>	
The Terms and Time Selection of Entirely Free Convertibility of Renminbi	715
<i>G. Wang</i>	
Multiple Objectives in a Public Investment Model	725
<i>T. Lei, H. Hai</i>	
Public Investment of the Governments and Macro-economic Growth	729
<i>T. Lei, H. Hai</i>	
An Improvement Approach Of Indoor Location Based On Radio-Map Using Wireless Local Area Network	733
<i>M. Chen, J. Jin</i>	
Evaluation and Study of Growth of Energy-Saving Building based on Cascade Neural Network	737
<i>H. Li, J. Zhang, C. Yue</i>	
An Approximation Algorithm For Nonlinear 0-1 Integer Programming Problems	741
<i>X. Wang, W. Wu, D. Zhu</i>	
Author Index	