

Contents

1	A New Estimation Method of the Probability of Informed Trading	1
	Chun-lian Xiong and Hua-gui Duan	
2	A Study on Coordination Relationship of Construction Industry and Economic Growth in Shaanxi Province	11
	Su-xian Zhang and Ling Yao	
3	A Study on Individual Value Measurement Method for Naval Vessels Equipment Human	21
	Yu Zhang, Bo Wang and Le Gao	
4	Analysis About Relationship Between Infrastructures Invests in Three Industry Departments and Economic Growth in Hubei Province	29
	Wen-jun Fu	
5	Application Analysis of Activity-Based Costing in Logistics Cost Management: In Comparison with Traditional Costing	41
	Xiang-xia Meng and Shu-guo Tian	
6	Building Energy Consumption in the Universities of China: Situation and Countermeasures	51
	Zi-Li Liu, Shu-Quan Li, Min-Qiang Li and Ling-Xiang Feng	
7	Empirical Analysis of Correlation Between Coal Enterprises and Electric Power Enterprises Based on Logistic Regression	61
	Li Ping, Dan-jun Wu and Huo-gen Wang	
8	Empirical Analysis of Economic Value Influence Factors of Spectrum	71
	Xian-feng WU, Xu Yuan and Jing Zhou	

9	An Empirical Study on Irrational Bubbles of Ordinary Residential Market in China	79
	Ying Wang and Bo Wang	
10	Estimating the Hidden Costs of Operating Room with Time-Driven Activity-Based Costing	87
	Ni-ni Gao, Zi-xian Liu and Ya-fang Li	
11	Identification of the Important Influence Factors of the Low Carbon Building Based on Rough Set	95
	Zi-Li Liu, Min-Qiang Li, Shu-Quan Li and Xue Sun	
12	Pareto-Optimal Proportion Structure Criterion of Income Distribution	105
	Zhen He	
13	Research on Cost Management in Foundry Enterprises Based on ERP	113
	Jin-long Wu, Jia-ying Jiang, Jian-xin Zhou, Xiao-yuan Ji, Hong-tao Tang and Hai Jiang	
14	Research on Sales Channels Costs of Iron and Steel Enterprises	123
	Jian-zhong Cao and Hu-sheng Lu	
15	Research on the Management Fee Claims in Accordance with the Bill of Quantities Valuation Mode in China	131
	Hua Gao and Tong Sun	
16	Research on the Optimal Supervision Level of Government in Highway Under PPP Model	141
	Ying-hui Jian and Dan Xu	
17	Research on the Risk Allocation Efficiency of Agent Construction of Government Investment Projects	151
	Jiao-jiao Deng and Ling Yan	
18	An Improved NSGA-II Algorithm for Resource-Constrained Discrete Time-Cost Tradeoff Problem	159
	Hong Zha and Lian-ying Zhang	
19	Application Research on the Artificial Neural Network in the Building Materials Price Prediction	167
	Hongxiang OuYang, Xinjuan Zhang and Cencen Hu	

20	Study on the Application of Activity Based Costing in Packaging and Printing Enterprise	177
	Yujie Zhu and Mian Yang	
21	The Dynamic Progress of the Project Cost Optimization	187
	Nan-nan Liu, Jian-ping Yang and Qi Chen	
22	The Microeconomic Basis for Solow Model on Economic Growth	195
	Zhen He	
23	The Modeling Measure and Time Series Forecasting for Potential Demand in Chinese Residential Market	205
	Peng-hui Chen and Jia-li Li	
24	The Relationship Between Human Capital and Urban Evolution: Data from Beijing, Tianjin, and Hebei Regions	215
	Su-ying Gao, Zhen-kun Zhao, Hong-feng Zhang and Shu-jian Zhang	
25	Xijiang Gold Waterway Industrial Layout and Path Selection	227
	Lu Ma, Wei Zhou and Jie-fei Zhu	
26	A Cost Estimation Model of Government Investment Projects Based on BP Neural Networks	235
	Meng-su Li and Xing Bi	
27	Chance-Constrained Programming Model for Optimal Project Selection and Scheduling	243
	Tian-yi Zhao and Xiao-xia Huang	
28	A Study on Photovoltaic Internet Pricing Problem Under Bargaining Game Analysis	251
	Wu-jun Cao and Qi Zheng	
29	The Structure of Construction Enterprise and Its Competitive Strategic Choice in China	259
	Yu-lin Wang and Wei Zhou	
30	Research on Energy Saving of the Existing Public Building in China	271
	Mei Wang and Yi Wang	

31	Method of Product Development Cost Estimating Based on ProA Hierarchical Decomposition	281
	Wen-hui Liu, Xiao-hui Zhao and Ya-wen Dong	
32	Empirical Analysis on Influencing Factors to the Capital Structure of GEM Board Listed Companies in China	295
	Shi-chang Lu and Xue Luo	
33	Measure Strategic Cost Based on Activity-Based Costing Method	303
	Ming-ming Wang and Dong-ping Han	
34	The Influences of Sports Consumption on Expanding Domestic Needs and Its Function of Promoting Economic Growth	313
	Xin-jian Luo, Yu-hua Qiu and Yu-qin Liu	
35	The Analysis of Environmental Population Capacity for the Yunyang County Based on the Ecological Footprint	321
	Jia-jun He and Xue-jun Wang	
36	The Research on Human Capital and Economic Development of Reservoir Area: Based on the Empirical Study of Yunyang	329
	Zhuo Ren and Jia-jun He	
37	Research on Coal Enterprises Activity-Based Costing Accounting Model Based on ERP	337
	Yan-hui Hou, Min Hao, Wei Wang, Hong-tao Yue and Yong-jun Ding	
38	The Empirical Study on Influence Factors of Word-of-Mouth Value of Customer Equity	345
	Lin Sun, Ai-wu Cheng and Huang-juan Wang	
39	Analysis of Recycling Cost and Recycling Benefit of the Recycling Economic Project	353
	Hua Wang and Xin Ni	
40	The Innovation of Training Model for New Bonded Logistics Personnel	365
	Jun Zhang	

41	A Research on Building a Perfect Accounting Supervision	373
	Yu Shi and Ping-ping Shi	
42	An Empirical Research on High-Tech Enterprises in Zhejiang Province Between Enterprise S&T Investment and Performance: Enterprises Competitiveness as an Intermediary Variable	381
	Cheng Hua, Yu-peng Zhang and Xiao-gang Yang	
43	The Salary Determination Model for Independent Colleges: Based on a Survey of Hubei Province Independent Colleges.	391
	Xiao-bai Lu and Cun Cheng	
44	Analysis of Determinants Affecting Cash Dividends Policy of Listed Producing Companies in China.	399
	Xiao-yan Liu and Xiao-ming Liu	
45	Research on Regional Technical Innovation and Old City's Development Through Suzhou's Practice	405
	Xiao-ran Hu, Cheng-yang Xie and Chi Wang	
46	Construction of China's Monetary Condition Index Based on the STR Model	415
	De-cai Zhou, Wen-ping Qi and Zheng-yi Jiang	
47	Growth Needs, Compensation Design, Intrinsic Motivation and R&D Creativity	425
	Chao-ying Tang and Li-bin Liang	
48	The Establishment of New Accounting Standards System in China	435
	Yan Wang	
49	Study on the Sustainable Growth of the Natural Resource Industry in China	441
	Xiao-yong Wang	
50	The Prediction Study on Output Value and Profit of China Mobile Tianjin Branch	449
	Hong-li Wang, Lin-xi Song and Ya-tao Zhang	
51	Study on the Mechanism of Value Increment During City Marketing.	457
	Jia-peng Dong and Yun-long Ding	

52	An Empirical Research on Civilized Eco-Villages Sustainability in Hainan	467
	Huan-jing Chen, Ruo-tuan Chen, Sheng-bai Jin, Yin Li and Ming-xuan Zhang	
53	Concept and Model Study for Reliability Engineering Capability of Equipment Development Units	477
	Dong-yu Wang, Jia-duo Wu and Wei Wang	
54	Importance of Strategic PMO Functions for PM Maturity	487
	Kaoru Nakamura and Hiroshi Osada	
55	Quantitative Reliability Assessment of Safety Instrumented Systems with Diverse Redundancy	497
	Kai Wang, Aidong Xu, Yan Song, Hong Wang and Jie Liu	
56	Research on Influencing Factors Index System for Selecting a Project Delivery System	509
	Fu-yan Zhou and Hong Ke	
57	Research on Synergy Management Thought-Based Engineering Project Management Model	519
	Jing-wen An, Xiao-chuan Wang and Zhi-qiang Zhang	
58	Research on the Reliability Growth Management Techniques of High-Speed Train for Whole Life Cycle	529
	Wen-Jin Zhang and Nan Lan	
59	Step-Stress Accelerated Degradation Test Model of Storage Life Based on Lagged Effect for Electronic Products	541
	Jin-yong Yao and Rui-meng Luo	
60	The Realization of Web Service Description of Project Procurement Management Based on Semantic	551
	Zhi-bing Wang and Zhu-mei Sun	
61	The Research of RAMS Management in China's High-Speed Railway Construction Project	559
	Jin-hui Cao	
62	The Research on Integration Methodology for Maintenance Support Resource	569
	Jian Huang, Zhong-hua Cheng and Ya-bin Wang	

63 The Research on Trust Mechanism Between Client and Contractor in Construction 579
 Yao Wang and Yi-lin Yin

64 Reliability Analysis on Shell Design of Large Oil Storage Tanks. 589
 Wang He, Li-chuan Liu and Jin-lin Yang

65 The Interval Estimation of MTBF Based on Markov Chain Monte Carlo Method 599
 Yi Dai and Bin-quan Li

66 A Ca-SVM Based Monte Carlo Approach for Evaluating Complex Network Reliability 609
 Yuan-peng Ruan and Zhen He

67 Determination of Two Change Points of a Bathtub Failure Rate Curve. 619
 Ren-yan Jiang

68 Weighted Linear Response Surface Method for Structural Reliability Analysis 631
 Qing-hui Dai and Jun-yuan Fang

69 The Latest Development of Objective Bayesian Analysis 641
 Ning Ji and Yi Dai

70 Study on Fault Classification of Power-Shift Steering Transmission Based on v-Support Vector Machine 647
 Yuan Zhu, Ying-feng Zhang and Ai-yong Du

71 A Group Technology Based Methodology for Maintenance Scheduling 655
 Ji-hong Yan and Xin Li

72 Research and Theory Application of Reliability Engineering Management on a Certain Type of Military Transport Aircraft Maintenance Training Simulator 667
 Xiao-kun Wang, Tie-nan Li, Si-dong Wei,
 De-xiang Sun and Li-min Qiao

73 Experimental Study of Transverse Crack Fault Diagnosis in Rotating Machinery 677
 Jian-zhong Lou and Xing Li

74	Traffic Detector Placement Models with Reliability Holder	685
	J. Q. Liu and N. Zhu	
75	The Evaluation of Chinese Coal Miners' Coping Styles	699
	Li-xia Niu and Nai-wen Li	
76	Study on "A Scoring Method" Model of Identifying Financial Risk of Budget Unit	709
	Chang-sheng Wei and Chao-yang Guo	
77	A Research on the Comprehensive Influential Factors of Energy Conservation in Chinese Public Building	719
	Dong-xu Yang	
78	A Simulated Road Crossing Study in Elders with Mild Alzheimer Disease.	729
	Yang-Kun Ou, Chen-Wen Fang and Yung-Ching Liu	
79	Analysis of Impact of Construction Safety Design of the Owners.	739
	Ting-sheng Zhao, Xin Wang, Jing-jing Tang and Xian-zhi Liu	
80	Analysis of the Relationship Between Safety Execution and Safety Performance	749
	Guo-yu Liu, Hui Xu, Yi-hang Wei and Jun-mei Wang	
81	Improvement and Application of Modern Accident Causal Chain Model	759
	Zheng-yu Xue, Na Wei, Xiao-qing Yu, Kai Ji and Bin Liu	
82	Key Element and Improvement Strategy of Management Innovation in High-Tech Enterprise	767
	Liang Liu	
83	Measures Against Emergencies in Time of Large-Scale Competition	775
	Li-wei Li	
84	Multilevel Grey Evaluation on the Risk of Chinese Oil Companies' Transnational M&A Project	785
	Yu-qi Wang and Wen-juan Chen	

85	Post-Earthquake Fire Risk Decision Research Based on Bayesian Networks	797
	Jing Liu	
86	Pricing Basket Credit Default Swap Based on Mix Copula Functions	805
	Yan-ping Liu, Jian-hua Liu and Peng Shao	
87	Influencing Factors, Countermeasures and Suggestions for Safety Assessment Quality of Dangerous Chemicals Production Enterprises	815
	Lan Zhang, Jiang Xu and Yan-song Zhang	
88	An Empirical Study on the Effect of Independent Directors on Firm Performance from the View of Regulation Environment	825
	Shan-hui Wang and Qi-shen Zhou	
89	Research and Application of the Dangerous Point and Risk Management System for Earthquake	837
	Qian-ru Wang and Qing-hui Dai	
90	Research and Implementation of Tourism Satellite Account in China	845
	Ming-xiu Chen and Qi Wang	
91	Research on Contractors' Strategies Dealing with Risks Reallocated by Owners Under Particular Contract Clause	853
	Jie Bai and Hong Ke	
92	Research on the End Effect Experiment of New Type 18.4 mm Kinetic Energy Pain Block Bullet	865
	Xiao-jun Zhai, Yong-jie Zhu and Shang-shun Wang	
93	Research on Mode of Facility Operation and Management in Tianjin Station Hub Based on Facility Management Theory	877
	Song Yang	
94	Safety Evaluation Method of Oil Depot Based on Improved Dow Chemical Method	889
	Yi Yang, Gong-hui Ping and Zhi-wei Huang	

95 Study on Green Safety Degree in Construction Project Under Energy Conservation Idea 899
Dan-feng Xie and Su-lei Li

96 Study on the Classification of Performance Shaping Factors in Digital Control System of Nuclear Power Plants 909
Peng-cheng Li, Li Zhang, Guo-hua Chen, Li-cao Dai and Ming Zhao

97 Study on the Risks of Mining Logistics System Based on System Dynamics Model. 919
Li-jun Liu and Xiao-ji Guan

98 The Causes and Consequences Analysis of Fire and Explosion Accident Happened in Buried Oil Tank of Gas Station 929
Xu-dong Ding, Wen-hua Song and Zhen Chen

99 The Correlation Between Risk and Return: The Empirical Evidence from Chinese Listed Companies 937
Jin Zeng and Yang Li

100 The Relationship Between Financial Resource Allocation Efficiency and Growth in Different Areas of China 949
Hong-bo Zhang and Qing Xia

101 The Relationship of the Operational Risk with Other Types of Risks: Concept and Analysis 957
Shao-qiang Qu and Yu-zhong Zhang

102 The Research of Banking Capital Resources Deployment Based on the Financial Ecological Environment and Credit Risk 967
Ling Zhang and Zhuo Peng

103 Uncertain Investment Models for an Insurer with Ruin Constraint 977
Qing-feng Song and Kai Shi

104 Using Network Security Index System to Evaluate Network Security 989
Jian-feng Zhang, Fei Liu, Li-ming Zheng, Yan Jia and Peng Zou

105 Research on Battlefield Awareness System Based on Internet of Things Technology 1001
 Zhao-fu Sun, De-xiang Sun and Zhi-liang Li

106 Regulations Construction and Implementation Difficulties of China’s Internal Control over Financial Reporting 1011
 Jing Wang, Mei-yun Wang, Zhi-ping Xiang and Si-yu Chen

107 The Management of Political Risk in the Overseas Mergers and Acquisitions of General Aviation Aircraft Company Limited of China 1021
 Xi-yu Han and Wei-li Xia

108 Research on Dynamic Correlation Between A&B Stock Index of Shanghai and Shenzhen Exchange Based on DCC-MGARCH Model. 1029
 Jin-fang Tian and Wen-jing Wang

109 Empirical Analysis on the Impact Factors of Currency Substitution in China 1039
 Ping Yi, Chuang Zhao and Xiao-ling Luo

110 Research on Effect of Customer Perceived Value on Quality Information Dissemination 1047
 Peng Sun, Shu-lin Tang, Qiang Liu and Jing-ting Yuan

111 Study on Early-Warning Assessment in Chinese Coal Mine Safety Based on Genetic Neural Networks 1057
 Yong-wen Ju, Li-xia Qi and Qian-li Sun

112 Identification of Critical Risk Factors in Software Project Risk Management. 1065
 Guo-ping Jiang and Ming-chi Lin

113 The Application of Enterprise QHSE Management Performance Evaluation System Based on Maturity Model . . . 1075
 Yu Wu and Bao-yin Zhang

114 Study on Application of Internet of Things Technology in the Aviation Equipment Maintenance Safety Management. . . 1087
 Da-xin Sun, Xiao-kun Wang, Yong-yu Liu, Cheng-xiang Liu and Guang-sen Zhou

115 Study on the Causal Relationships Between Context and Human Error in Digital-Based Control System of NPPs 1097
Peng-cheng Li, Li Zhang, Li-cao Dai and Yan-hua Zou

116 Research on Implementation Model of Enterprises Risk Management. 1109
Yan-fang Gao and Yuan-yuan Chen

117 Reconsideration on the Design of Warnings with Neuro-IE: From the View of Risk Perception and Decision Making 1121
Qing-guo Ma, Wen-jing Ji, Wei-peng Lai, Ya-wen Yu, Fu-yuan Xu and Jun Bian

118 Research on Countermeasures and Suggestions of Financial Risk Management in Construction Enterprise 1127
Lu Zhang

119 Research on Key Technology of Wireless Multimedia Communication for Mine Rescue. 1137
Xue-zhao Zheng, Jun Deng and Yong-fei Jin

120 Digital Human Modeling for Musculoskeletal Disorder Ergonomics Researches in Healthcare 1149
Le Zhang, Jian-wei Niu, Xiao-lin Feng, Si-yang Xu, Xin Li and Si-si Guo

121 Insurance Funds Investment Strategy and Risk Management Structure 1157
Xiang Guo and Wen Wang

122 Study on Evaluation of Safety and Quality in Military Aircraft Maintenance 1167
Ji Ding, Qiong-jian Fan, De-xiang Sun, Ji-jun Zhang and Bo Ren

123 The Application of Fuzzy Comprehensive Evaluation on Special Equipment Risk Assessment 1175
Yuan-rong Zhang, Jian Zhang, Yu-dong Li and Chao Ji

124 Aviation Equipment Maintenance Safety Management Based on the Technology of IOT 1185
Xiao-kun Wang, Yong-yu Liu, Zhe-yu Li, Ming-feng Li and Shu-li Zhang

125 Empirical Test of Asymmetric Wealth Effect of China Stock Market 1195
De-cai Zhou, Hai-dong Xie and Zheng-feng Du

126 Research on Risk Prevention and Control Model Facing Industry Technology Alliance’s Lifecycle 1205
Bin Dai

127 Governance of Bid-Rigging in the Bidding 1213
Dong-sheng Ni and Xiao-wei Guan

128 Study on Harmonious Labor-Capital Relationship in China’s Private Enterprises. 1223
Si-ping Peng and Yi-yang Lu

129 Study on Risk Aversion of Integrating Entrepreneurship Education into College Professional Curriculum 1233
Wen-juan Chen and Guan-xin Yao

130 The Role Analysis for the Shareholding Structure to Risk Control in Public–Private Partnerships 1241
Xing Bi and Jing-xing Chang

131 Hedging Based Price Decline Risk Management of Refined Oil Inventory 1249
Xing Bi, Yao-long Zhang and Yan-wei Liu

132 BP Neural Network-Based Commercial Loan Risk Early Warning Research. 1259
H. Zhou

133 Research of Educational Resource Sharing Mechanism Based on Grid 1269
Wen-guang An, Hong-jun Li and Tao Wang

134 A Research on Evaluating the Competition Power of Creative Industries in Heilongjiang Province 1277
Hai-chao Li and Shi-jie Fan

135 Some Thoughts on Educating Professionals for Mining Industry 1291
Si-qing Liu, Shu-ming Wen, Dian-wen Liu, Xiong Tong and Zuo-yue Lan

136	Discussion on Harmonious College Teacher–Student Relationship	1299
	Ju-ling Qiao	
137	Research on Teaching Methods of Public Table Tennis in College and University	1307
	Li Wang	
138	Based on the Engineering Thinking Perspectives to Analysis “a Plan for Education and Training Outstanding Engineers” (PETOE)	1315
	Ning Liu, Yan-tong Zhang and Xiao-fei Wang	
139	Discussion on the Beginning Education of the School Year About University Freshmen	1325
	Men-ji Shou, Chun-pin Ding, Cai-bin Ruan and Long-fei Zhu	
140	Evaluation of College Students’ Innovation Concept Case Analysis Based on Taiyuan Institute of Technology Robot Team	1333
	Jun-qing Wu, Hong Zhu, Jian-ping Zhang and Jing-hua Huang	
141	Constructivism of Teaching Idea and Practice	1345
	Hong Zhu, Jun-qing Wu, Hui-fang Li and Yong-qin Yuan	
142	Engineering Education in China: Status Quo, Problems and Countermeasures	1357
	Mei Wang, Min-min Wei and Chang-hao Dai	
143	Lean Production Education: A Prerequisite Course Designed for Industrial Engineers in China	1365
	Jian-sha Lu and Zhi Pei	
144	Construction and Development of Entrepreneurial Curriculum System Based on Entrepreneurial Process	1375
	Kun-yi Li, Xin-ping Shi and Zhong-li Ji	
145	The Reform of Engineering Education Based the CDIO Approach	1383
	Jin Zhang	

146 An Empirical Research of Influencing Factors About Entering Adaptation of University Graduates 1393
Qian-bing Li and Su-ning Huang

147 Analysis of Motivation for Young College Teachers’ Development from the Perspective of Two-Factor Theory 1405
Wen-qi Chen

148 The Exploration and Practice of Teaching Method “Descriptive Geometry and Engineering Drawing” for Art Students 1415
Yu-ping Pei and Shao-feng Yan

149 Study on Innovation Teaching for Industrial Engineering 1423
Xiao-qing Huang and Xing-shan Qian

150 On the Differentiated Performance Appraisal for Young Teachers in Institutions of Higher Education 1433
Jing-kun Zhou, Hao Qi and Bing-cai Yu

151 Research on Talents Training Mode of Service Outsourcing in University 1439
Rui-ying He, Yue Liu and Yu-jie Hua

152 Study on the Competency of College Elitists 1451
Li-qun Gu, Xiao-rong Zhao and Xue-ying Tong

153 Study on Reform of Public Physical Education Management in Chinese Universities 1461
Lin-zhou Gao

154 Discussion on How to Cultivate Interdisciplinary Graduate Students 1469
Yan Liu and Lu-quan Ren

155 Research on Teaching Method of Engineering Graph Recognition Course for the Computer Science and Technology Major Based on Creative Thoughts and Application Ability Training 1477
Yu Wang, Ri-na Su and Guo-jun Li

156 Watching the Theoretically Educational Hysteresis Quality of Universities from the Historical Position of Marxism 1485
Ya-wei Bao

157 An Analysis on the Employment Characteristics of Engineering Graduates in China 1493
Cheng Jiang, Xiao-hua Wang and Xiao-jun Zhao



<http://www.springer.com/978-3-642-38432-5>

The 19th International Conference on Industrial
Engineering and Engineering Management
Engineering Management

Qi, E.; Shen, J.; Dou, R. (Eds.)

2013, XX, 1498 p. 266 illus., Softcover

ISBN: 978-3-642-38432-5