Contents

70

Part V Computing Methodology

	for Manufacturing Scheduling Problems	815
71	A Vector Space Model Approach for Searching and Matching Product E-Catalogues	833
72	One-Step Classifier Ensemble Model for Customer Churn Prediction with Imbalanced Class Jin Xiao, Geer Teng, Changzheng He and Bing Zhu	843
73	Synergy Effect of Knowledge Network and Its Self-Organization	855
74	An Improved Particle Swarm Optimization Algorithm for Option Pricing	861
75	How Venture Capital Institutions Affect the Structure of Startups' Board of Directors	871
76	Customer-Value Based Segmentation and Characteristics Analysis of Credit Card Revolver Changzheng He, Mingzhu Zhang, Jianguo Zheng, Xiaoyu Li and Dongyue Du	883
77	Applying Dynamic Programming Model to Biogas Investment Problem: Case Study in Sichuan	893

Recent Advances in Multiobjective Genetic Algorithms

78	Determination of the Control Chart CUSUM-ln(S ²)'s Parameters: Using a Computational Tool to Support Statistical Control	905
79	Credit Risk Measurement of the Listed Company Based on Modified KMV Model	915
80	Why Do They Leave? The Mechanism Linking Employees' Psychological Capital to Their Turnover Intention Chen Zhao and Zhonghua Gao	925
81	Interpretative Structural Modeling of Public Service Supply in Ethnic Regions	937
82	Road Map to the Statistical Process Control	949
83	Temporal Distribution and Trend Prediction of Agricultural Drought Disasters in China	959
84	The Research of Relationship Capital and Demand-Pull Absorptive Capacity Impact on Innovation Performance	969
85	Modeling and Forecasting International Arrivals from China to Australia	979
86	A New Algorithm for Dynamic Scheduling with Partially Substitutability Constrained Resource on Critical Chain	989
87	Decision Methodology for Maintenance KPI Selection: Based on ELECTRE I	1001

Part	VI Project Management	
88	Process Developments in FSW	1015
89	Human Resource Practices: A Case Study of Karachi Port Trust (KPT) Nadeem A. Syed, Asif Kamran, Sulaiman Basravi and S. Faheem H. Bukhari	1023
90	Female Director Characteristics of Audit Committee and Corporate Transparency	1037
91	Empirical Analysis on the Relation Between Capital Structure and Corporate Performance of Listed Companies in SME Boards in China	1049
92	RFID Application Infant Security Systems of Healthcare Organizations	1059
93	Performance Evaluation of China's Performing Arts Groups from the Perspective of Totality and Subdivision Xiaoyi Huang, Yongzhong Yang and Lin Zhong	1075
94	Graded and Classified Safety Management for Elevator Users Based on the Coordination Theory Xuedong Liang, Xiaojian Wang, Feng Wang and Jian Zhang	1085
95	Research on Comprehensive Risk Management System Construction Based on SPIC for Local State-Owned Investment Finance Companies	1099
96	An Evaluation Method of the Development Level of Low-carbon Economy	1111

xviii Contents

97	Healthcare Knowledge Management: Integrating Knowledge with Evidence-based Practice Maria do Rosário Cabrita, Ana Miriam Cabrita and Virgílio António Cruz-Machado	1121
98	The Compensation Plan on Doctors Considering the Contextual Performance	1133
99	Research of Contractor's Incentive Problem Under the Ternary Structure	1145
100	Improvement of Decisions about Project Risk Management Based on Bayesian Network	1155
101	Risk-Oriented Assessment Model for Project Bidding Selection in Construction Industry of Pakistan Based on Fuzzy AHP and TOPSIS Methods	1165
102	Risk Management in Maritime Structures Maria Teresa Leal Gonsalves Veloso dos Reis, Pedro Gonçalo Guerra Poseiro, Conceição Juana Espinosa Morais Fortes, José Manuel Paixão Conde, Eric Lionel Didier, André Miguel Guedelha Sabino and Maria Armanda Simenta Rodrigues Grueau	1179
103	Research Performance Evaluation of Scientists: A Multi-Attribute Approach	1191
104	Multi-objective Optimization Model for Supplier Selection Problem in Fuzzy Environment	1201

Contents xix

Part	VII Industrial Engineering	
105	Process Developments in Friction Surfacing for Coatings Applications	1217
106	The Comprehensive Ensemble Pattern of Macroeconomic Early-Warning Information Management Cockpit	1231
107	Strategic Resilience Development: A Study Using Delphi Raphaela Vidal, Helena Carvalho and Virgílio António Cruz-Machado	1245
108	The Industrial Development of Beibu Gulf Economic Zone of Guangxi: Issues and Measures	1257
109	Impact of Human Capital Investment on Firm Performance: An Empirical Study of Chinese Industrial Firms	1269
110	Analysis on Joint-Purchasing of Small and Medium-Sized Enterprises in Western China	1281
111	The Case Study on the Cultural Identity in Virtual Community	1293
112	Research on the Integrated Management and Technology Advancement of the Reinforced Widening Embankment with No Extra Land Acquisition Xiaoping Li, Zhineng Zheng, Tianqing Ling and Bin Zhou	1305
113	Quantifying Mutual Correlations Between Supply Chain Practices and Customer Values: A Case Study in the Food Industry	1315
114	Establishing the System of How to Select the Contractor in a Large-Scale Construction Project	1329

115	Research on GEM Companies' Investment Behaviors and Governance Factors' Incentive and Constraint Effects Sheng Ma and Rui Wang	1339
116	Earthquake Emergency Supplies Scheduling Order Based on Grey Correlation–Fuzzy Evaluation	1351
117	A Class of Expected Linear Bi-level Programming with Random Fuzzy Coefficients	1359
118	Research on Factors Influencing the Sugarcane Production in Pakistan: A Case Study of Punjab	1373
119	The Structure and Effects of the Collective Psychological Capital Research	1385
120	A Two-Stage Resource-Constrained Project Scheduling Model with Proactive and Reactive Strategies Under Uncertainty Lu Chen and Zhe Zhang	1397
121	TRIZ Methodology Applied to Noise Comfort in Commercial Aircraft	1409
Part	VIII Information Technology	
122	A Multi-attribute Large Group Decision-Making Method Based on Fuzzy Preference Dynamic Information Interacting	1423
123	How to Create Sustainable Competiveness Through Resilience and Innovation: A Practical Model Based on an Integrated Approach	1435
124	Optimization Design Strategies and Methods of Service Granularity	1445

125	A Fuzzy Synthetic Performance Evaluation Model for the Strategic Alliance of Technological Innovation in China	1457
126	The Evaluation of College Students' Entrepreneurial Competency Based on PCA-ANN Model	1469
127	Self-Interested Behaviors of Managers About Selective Environmental Information Disclosure and Influencing Factors Researching	1481
128	In Search of Entrepreneurial Opportunities in Digital Economy	1493
129	Designing a Risk Assessment System for China's Third-Party Mobile Payments Lei Xu and Wuyang Zhuo	1505
130	A Method of Modeling and Evaluation of the Customer Satisfaction	1513
131	Analysis and Comparison of Life Cycle Assessment and Carbon Footprint Software	1521
132	The Affecting Factors of Inflows of International Hot Money to China	1531
133	Analysis on Food Quality and Safety Supervision Based on Game Theory Zongtai Li and Hua Li	1541
134	Research on the Design of Smart Portal for Chinese Cities Yong Huang, Ronghua Zhu and Hao Dong	1551
135	The Technological Paradigm for Growing Trends of Carbon Utilization	1563

136	Cultural Determinants on Information Technology Cheng Luo and Michael Amberg	1573
137	The Impact of Consumer Perceived Ethical Value on Trust and Brand Loyalty: Personality as Moderation Variable	1585
138	Equipment Condition Monitoring: The Problematicon Statistical Control Charts Suzana Paula Gomes Fernando da Silva Lampreia, Valter Martins Vairinhos, José Fernando Gomes Requeijo and Vitor José de Almeida e Sousa Lobo	1595
Auth	nor Index	1605