

Contents

Health Economics and Management Framework Based on Chongqing Regional Health Information Platform	1
<i>Ping Cheng</i>	
The Strategic Thinking of the Economic Transition in the Economic Zone on the West Side of the Taiwan Straits China	7
<i>Pengyi Zhu</i>	
System Structure of Venture Capital Industry in Japan	13
<i>Peng Liang, Yu Huang</i>	
Identification about Key Element of Urban Core Competitiveness Based on Structural Equation Model	21
<i>Shui-ying Jin</i>	
Work-Integrated Learning at the Engineering School at Vongchavalitkul University	29
<i>Sanguan Vongchavalitkul, Busaya Vongchavalitkul</i>	
An Analysis on the Forming Reason of Dominant Firms of China	37
<i>Hongli Ji, Yanqiu Liu, Fanwen Wu</i>	
A Survey of Science Literacy Level for Senior High School Students in Taiwan	45
<i>Chao Chih-Yang, Yang Shih-Chun, Yen Chia-Sung, Lin Yong Shun</i>	
Performance Evaluation of the Regional Innovation in the Integration of Production, Education and Research	53
<i>Chaoyi Chen, Bo wang, Luo Chen</i>	
Research on the Buffer Sizing Approach in Critical Chain Scheduling in Perspective of Flexible Management	61
<i>Guofeng Ma, Lei Li, Zhiqin Chen</i>	

Research on the Society Security of the Landless Peasants of Henan Province	69
<i>Guo Xiaoli</i>	
Nature of the Dynamics of Graphene	75
<i>Zhang Yu-Qian, Li Yu-Chen, Zhu Shi-Xi</i>	
A L-stable Numerical Scheme for Option Pricing under Jump-Diffusion Models	83
<i>Wei Li, Shengwu Zhou</i>	
Empirical Research on the Level and Quality of Gains from ST Stocks in China	89
<i>Wenxiu Hu, Jing Niu, Qingbang Mu</i>	
Research on the Impact of Work Heterogeneity on Human Resource Development Needs	97
<i>Yan Qin, Dan Mu</i>	
A Research of an Undergraduate Course “Exploratory” Closed Book Examinations Method* – The “Intermodal” Courses as an Example	105
<i>Liu Mingwu, Zeng Haoran</i>	
Study on Strategic Choices of China’s Commercial Banks Based on SWOT Analysis	109
<i>Yan-jing Bai, Zhi-feng Yin</i>	
The Characteristics and Implementation Strategy of Modern Hospital Knowledge Management	117
<i>Zhi-guo Liu, Hai-bo Yang</i>	
Competitive Advantage in e-Commerce: The Case of Database Marketing	123
<i>Teresa Guarda, Maria Augusto, Carlos Silva</i>	
The Impact of Credit Derivatives Issuance on Financial Institutions	131
<i>Yang Xing, Zhong Yuqin</i>	
Empirical Analysis on Green Innovation of Chinese Paper Manufacturing	141
<i>Haiying Liu, Zhiyong Zou</i>	
Overview of Change Management and Its Implementation	149
<i>Reza Malek, Rashad Yazdanifard</i>	
Causes of American Subprime Mortgage Crisis and Its Enlightenment to China	155
<i>Tao Song, Shi-chen Fan</i>	

Research on Traffic Circle Capacity	161
<i>Chaonan Jiang, Jing Yin, Jialei Gao, Tao Huang</i>	
Characteristics of Heat Transfer and Resistance of Double Chevron Plate Heat Exchanges with Different Corrugation Pitch	169
<i>ChunSheng Guo, WenJing Du, Lin Cheng</i>	
Perceived Risk in Marketing Strategy	175
<i>Liu Tian-Que</i>	
Discussion of EV Virtual Value Calculation Method for Light Environment Test System and Influence Factors of Calibration Experiment under Skylight	179
<i>Yuan Zou, Tianxing Shen</i>	
The Research on the Rectification System of Stereo Image Pairs	187
<i>Qinyou Yang, Xiaoyan Yu</i>	
An Empirical Study on Industrial Homogeneity between Fujian and Taiwan Provinces by the Coefficient of Similarity and R/S	195
<i>Sugiong Wei, Yanhua Chen, Jinghuan Geng, Liyun Zeng</i>	
The Relationship between Financial Deepening and Economic Growth in Taiwan	205
<i>Shu-Chen Chang, Cheng-Hsien Wu</i>	
Residential Location, Commute and Urban Transportation	211
<i>Xiaoping Yu</i>	
An Online High-Speed Card Characters Recognition and Verification System Based on Multi-neural Network	217
<i>Yongle Wang, Shuxin Xu</i>	
Impact of Macroeconomic Variables on Stock Prices: Empirical Evidence from Karachi Stock Exchange, Pakistan	227
<i>Muhammad Nauman Khan, Sharif Zaman</i>	
Research in Transaction Model of ERT Database Management System	235
<i>Yongle Wang, Shuxin Xu</i>	
Study on the Learning Evaluation of Web-Based Learning Platform	243
<i>Kejin Xu, Yang Du</i>	
Research of Public Service Units Performance Appraisal Based on Weight-Variable Theory	249
<i>Zhou Xiaoshi, Jin Minli, Ling Ping</i>	
The Study on University Library Consortium Based on Cloud Computing	259
<i>Hai-bo Yang, Ning Yu</i>	

Research on County Tourism Development in Hainan	263
<i>Xiang-rui Chen, Fan-hua Meng, Lan Li, Shi-chen Fan</i>	
The Research of Human Resources Flexibility	271
<i>Changna Qian, Wen Zhou, Liang Chen, Wenbing Zhang</i>	
A Developed System for Business Management	277
<i>Sharly Joana Halder, Wooju Kim</i>	
Reliability Model Research on E-Business System Compositied with Web Services	285
<i>Yugen Du</i>	
Discuss in the Mission and the Curriculum Construction of Chinese College Physical Education in Transformation Period	295
<i>Wu Jianjun, Zhang Anhong</i>	
Accounts Payable Analytics - Indispensable for Optimizing Cash Flow	301
<i>Partho Bandopadhyay, Jaywardhan Semwal, Kumar Suneet, Tulika</i>	
Prospect and Business of Leapfrog Development of Hainan Rural Tourism against the Background of International Tourism Island	309
<i>Shi-chen Fan, Tao Song</i>	
Spatial Economics Research on Formation Mechanism of Commercial Circle Based on Consumer Searching Cost	317
<i>Juan Feng, Jian-Wei Wu</i>	
Study on the Construction of Hainan Theme Park under the Background of International Tourism Island	327
<i>Fan-hua Meng, Xiang-rui Chen, Shi-chen Fan, Tao Song</i>	
Human Library: A New Way of Tacit Knowledge Sharing	335
<i>Yong-hua Zhai, Ying Zhao, Rui-mei Wang</i>	
Strategies for Increasing the Key Capabilities of Organization Agility (Case Study: Tehran Urban and Suburban Railway Co.)	339
<i>Mohammad Mahmoudi Maymand, Mohammad Zare, Sedigheh Asefi</i>	
Using Fuzzy Delphi Method and Fuzzy AHP for Evaluation Structure of the Appeal of Taiwan's Coastal Wetlands Ecotourism	347
<i>Chien-Chi Lin, Laurence Zsu-Hsin Chuang</i>	
Application of Support Vector Machine Regression in Stock Price Forecasting	359
<i>Zhongxin Ding</i>	
Empirical Analysis of the Influence on the Sino-US Trade Balance by the RMB Real Exchange Rata	367
<i>Bangyong Hu</i>	

Evaluation of the Influence of Selected Production Factors on Makespan for Different Routes in FJSP Problem	373
<i>Tadeusz Witkowski, Arkadiusz Antczak, Paweł Antczak</i>	
Foreign Direct Investment and Its Impacts on the Build-Up of Sustainable Development Ability of Regional Economy	383
<i>Junhua Chen</i>	
Research on the Optimization Strategy of Normal Students' Teaching Behavior in Classroom	389
<i>Junhua Chen, Yang Du</i>	
IT Outsourcing Business Process Model Innovation Based on the Theory of Change	395
<i>Jing Mu, Yilei Pei</i>	
American Brand Development of Citrus Industry and the Enlightenment to China Three Gorges Reservoir Area Developments Based on SRCT	403
<i>Jian-hua Zhao, Yu-heng Zhao, Si-ying Li</i>	
A Secure Machine to Machine-Based Framework for Service Provisioning in Cloud Computing Infrastructures	409
<i>Giovanni Cagalaban, Jae Young Ahn, Seoksoo Kim</i>	
Study on 4-Step BASE Mechanism Vulnerability Analysis and Design of Evasion Attack Method for Smart Network	417
<i>Sungmo Jung, Jong Hyun Kim, Seoksoo Kim</i>	
Dose Debt Financing Has Positive Governance Effect? — An Empirical Study Based on Private Benefit of Control	423
<i>Chaonan Lin, Li Liu, Huayu Shen</i>	
A Study on the Recent Application of the Human Capital Theories in China	431
<i>Liu Na, Qin Ying</i>	
An Introduction on Gary Becker's "Human Capital Theories"	437
<i>Liu Na</i>	
Coordinative Operations of Distributed Decision-Making Closed-Loop Supply Chain: A Review	441
<i>Jiawang Xu, Yi Zhang, Bin Liu, Liqiang Zhao</i>	
Identification of Currency Crises: The Empirical Analysis Based on the Binary Regression Tree	449
<i>Yin Yu</i>	

The Issues of Ideal Faith Education for Contemporary College Students and the Countermeasures	457
<i>Lili Pan, Jia Guo</i>	
A Competence-Driven Staff Assignment Model Based on Stochastic Working Status	463
<i>Li Du, Yu Zhang, Hua Li</i>	
Internal Marketing Establishes the Culture of Market Orientation	471
<i>Yafang Tsai, Shih-Wang Wu, Sue-Ting Chang</i>	
CFD Modeling of the Mixing Process in a Fermentation Tank	481
<i>Lou Peng, Chen Hui, Tian Bao Long</i>	
A Ranging Algorithm Based on Binocular Real-Time Video Monitoring	491
<i>Ying Li, Liquan Mei</i>	
Operation Mode Selection of Fourth-Party Logistics in China	499
<i>Liping Chen, Luming Yang, Baoquan Sun</i>	
A 1.2V Sample-and-Hold Circuit for 14-Bit 250MS/s Pipeline ADC in 65nm CMOS	507
<i>Wang Xuan, Li Fule, Wu Bin</i>	
The Effect Evaluating System of VMS Information Guidance on Urban Road Network	515
<i>Chengxiang Zheng, Chunfu Shao, Changqing Zheng, Liang Qiao</i>	
A Transitive Trust Chain in Ad Hoc Network	523
<i>Chongzheng Zhai, Jing Liu</i>	
The System Architecture of Intelligent Monitoring for Broadcasting TV Based on Web Services	531
<i>Chunlai Zhou</i>	
A New Nonlinear Integrable Couplings of GJ Equations Hierarchy and Its Hamiltonian Structure	539
<i>Dandan Liu, Tie-cheng Xia</i>	
Applied Research on Tower Crane Safety Supervising System Based on Internet of Things	549
<i>Leqiang Bai, Yuejiao Sun, Xin Guo</i>	
An Enhanced Instruction Tracer for Malware Analysis	557
<i>Zheyuan Liu</i>	
An Efficient Scan-to-Scan Integration/Correlation Algorithm for Sea Surveillance Radar	565
<i>Byung-Doo Kim, Byung-Gil Lee</i>	

Frequency Conversion Control Module Design for Electric Cars Based on SVPWM	573
<i>Wei Feng, Changán Di, Peng Bian, Deren Kong, Zhenwei Duan</i>	
Research and Design of Data Integration Architecture for Rural Planning	579
<i>Weipeng Cheng, Wenxue Wei, Feng Zhang</i>	
The Design and Implementation of the Control and Monitoring System for a Multi-pot Reactor	587
<i>Kai Zheng, Su Wang, Jun Zheng</i>	
Study on the Measurement Method of the Impact Force of Projectiles with High Kinetic Energy	595
<i>Changán Di, Lilong Gao, Yanjuan Li, Deren Kong</i>	
An Efficient Method of License Plate Location Based on Structure Features	601
<i>Fan Ye, Mei Xie</i>	
The Multithreading Parallel ACA Algorithm Based on OpenMP	607
<i>Yulei Zhao, Chuangming Tong, Zhiqi Ju</i>	
Algorithms with Restrictive Input Constrains on Genome Exemplar Distance Caculation	615
<i>Yehong Chen, Daming Zhu, Weifang Tang, Qi Chen, Jie Zhang</i>	
The Research Based on Self-adaptive Filter and Kalman Filter on Multi-robot	623
<i>Lidan Gao, Zhonghua Huang, Nu Zhang, Shunhua Li, Yan Feng</i>	
Research on the Trunk Line's Transmission Performance of Multi-hop WMN Based on 802.11n	631
<i>Zhu Quan, Jiang Xinhua, Zou Fumin</i>	
Application of Geographic Information System in Orienteering Sports	637
<i>Xiaozhi He</i>	
Formal Specification for Compiler Based Test Case Generation of Embedded Real-Time System	643
<i>Yong Chen, Yanxiang He, Chao Xu, Wei Wu, Jianbo Liu</i>	
Fair Video Streaming over Wireless with Network Coding	651
<i>Xiaoqiao He, Rui Wang, Depei Qian</i>	
The Functional Semantic for Home Service	659
<i>Moji Wei, Jianliang Xu, Xinjun Song</i>	

Research on DICOM Compliant Medical Image Interactive Visualization on Android Platform	667
<i>S.H. Zheng, J. Chen, C.Y. Xu, L. Yu</i>	
Using a Single-Layer Neural Network to Generate a FIR Filter That Improves Digital Images Using a Convolution Operation	675
<i>Jakub Peksinski, Grzegorz Mikolajczak</i>	
Improved Particle Swarm Optimization Algorithm and Its Application to Global Optimization for Complex Function	683
<i>Jing Zhang, Ze Zhang</i>	
A Distributed Estimation Algorithm in Binary Sensor Network for Tracking Moving Target	691
<i>Zixi Jia, Mo Chen, Chengdong Wu</i>	
A Method of Image Segmentation Based on Adaptive Bidirectional Balloon Force Model	699
<i>Jinyao Yang, Yugui Xu, Boling Zheng, Haihong Shen, Minfen Shen</i>	
Variable Step-Size Algorithm on Feedback and Feed-Forward Coefficients for Modified Decision Feedback Equalizer Turbo Code DS/CDMA System	707
<i>T. Udomsripaiboon, C. Benjangkprasert</i>	
Research of a Ubiquitous-Computing Enabled Service Pattern in Converged Network	715
<i>Xiao-Yan Yu, Rong-Heng Lin, Peng-Cheng Huang</i>	
A Service Model Based on Stochastic Network Calculus in Wireless Mesh Networks	723
<i>Gaocai Wang, Nao Wang, Mingxing Lai</i>	
The Recent Condition and Relevant Algorithms of the Study on Sensor Network Deployment	731
<i>Wu Yi</i>	
Mobile Book Management Application Using Camera of Smart Phone	737
<i>MyoungBeom Chung, IlJu Ko</i>	
Modeling Nonfunctional Requirements in Software Product Line	745
<i>Sun Lianshan, Wang Jinyu</i>	
A Case Study on High Trustworthy Environment Construction for Smart Home Applications	755
<i>Xinyan Gao, Xianlu Luo, Ning Zhou, Dakui Li</i>	

A Modbus Protocol Stack Compatible with RTU/TCP Frames and Embedded Application	765
<i>Jian Kuang, Guibao Wang, Jiali Bian</i>	
Intelligent Education Services Based on Context Mediator in Pervasive Computing	771
<i>Taijong Kim, Mincheol Kim, DoHyeun Kim</i>	
On-Line Error Detection and Off-Line Test Design in Polynomial Basis Multiplier over GF(2^m) Using Irreducible Trinomials	779
<i>Chi Hsiang Chang, Chiu-Ching Tuan, Wen-Tzeng Huang, Che Wun Chiou</i>	
Design of the Low Cost Scalar Multiplier-on-Chip for 163bits Elliptic Curve Cryptosystem	787
<i>Chi Hsiang Chang, Chiu-Ching Tuan, Guo-Ming Sung, Wen-Tzeng Huang, Xi-Yan Wu</i>	
Research on Interference Rejection of TT and C in Formation Flying of Small Satellite	793
<i>Pan Xi, Chen Ming</i>	
Research on Robust Image Perceptual Hashing Technology Based on Discrete Cosine Transform	799
<i>Liang Chang, Wen-Gang Yan, Wen-De Wang</i>	
A Message Driven Mechanism Based Distributed IDS Using Developed CUSUM Algorithm	811
<i>Yingxuan Wang, Shuzhen Yao, Huobin Tan, He Huang</i>	
High-Quality Resolution Reduction Method for Halftone Image	821
<i>Kaoru Ishito, Kazuki Katagishi, Kazuo Toraichi</i>	
Resource Pool-Oriented Resource Management for Cloud Computing	829
<i>Zhang Hengxi, Li Chunlin, Shi Zhengjun, Zhang Xiaoqing</i>	
The Application of Visual Speech Synthesis in Computer-Assisted Pronunciation Training	833
<i>Yanyan Chen, Hao Li</i>	
Microstrip Antenna Design Based on Left-Handed Materials	839
<i>Song Chengtian, Song Zhiliang, Pan Xi</i>	
Measurement and Control System Development of Performance Research Test Bench for Diesel Engine Injector Based on Labview	847
<i>Suyun Luo, Yuanming Gong</i>	
Modeling the IEEE 802.11 DCF with Hidden Stations	855
<i>Jielin Fu, Zheng Zhou, Lin Zheng, Zhenghong Liu</i>	

Study of EMC Testing Tools 861
Bo Yuan, Zhiwei Wang

**A Hybrid Routing Tree to Avoid the Energy Hole Problem in Wireless
Sensor Network** 869
Yuhua Liu, Wenwen Dai, Kaihua Xu, Meirong Zheng

Author Index 877