Table of Contents – Part II

Computational Statistics

A*H over Weak Hopf Algebras 1
Yan Yan, Xinghua Ma, Dongmei Li, Liping Du, and Yankun Li

Study on the Establishment of Mathematical Model for Male's Foot 9
Taisheng Gong, Quane Wei, Rui Fei, Yunqi Tang, Gaoyong Liang, and Jun Lai

Strong Law of Large Numbers for Negatively Associated Random Variables 18
Yourong Wang, Yili Tan, and Yanli Liu

Schur-Convexity of Generalized Heronian Mean 25
Tian-yu Zhang and Ai-ping Ji

Design of Virtual Oscilloscope Based LabVIEW 34
Dong ShengLi, Han JunFeng, Pan ShengHui, and Deng JianFeng

Verifiable Rational Multi-secret Sharing Scheme 42
Yongquan Cai, Zhanhai Luo, and Yi Yang

Limit Theorems and Converse Comparison Theorems for Generators of BSDEs 49
Shiqiu Zheng, Yali He, Aimin Yang, Xiaoqiang Guo, and Ling Wang

The Fusion of Mathematics Experiment and Linear Algebra Practice Teaching 57
Yan Yan, Biaoxiang Liu, Xiujuan Xu, and Dongmei Li

Research on the Teaching Method of Geometry in Linear Algebra 65
Yankun Li, Shujuan Yuan, Yan Yan, and Yanbing Liang

Exploration the Teaching Method of Linear Algebra Based on Geometric Thought 71
Yankun Li, Dongmei Li, Xiaohong Liu, Jun Xu, and Linlin Liu

Discussion on the Categorized Teaching of College Mathematics 77
Yongli Zhang and Yanwei Zhu

Block-Based Design ERP Curriculum Teaching 84
Yuesheng Zhang

Teaching Computer Graphics in Digital Game Specialty 91
Hui Du and Lianqing Shu

Bibliografische Informationen
http://d-nb.info/1017419604

digitalisiert durch DEUTSCHE NATIONAL BIBLIOTHEK

Discussion of Some Problems in Statistical Teaching 98
Yan Gao, Xiuhuan Ding, and Linfan Li

Bio-inspired and DNA Computing

The Existence and Simulations of Periodic Solutions of a Leslie-Gower Predator-Prey Model with Impulsive Perturbations 104
Kaihua Wang and Zhanji Gui

The Existence and Simulations of Periodic Solution of Leslie Predator-Prey Model with Impulsive Perturbations 113
Kaihua Wang, Wenxiang Zhang, and Zhanji Gui

Solutions Research of Ill-Posed Problem and Its Implementation 121
Yamian Peng, Taotao Yu, and Yali He

In Vitro Evaluation on the Effect of Radiation Sterilizion on Blood Compatibility and Genotoxicity of a Femoral Prosthesis 129
Guochong Chen, Qingfang Liu, and Wen Liu

Evaluation of the Effects of Sterilization by Irradiation on Biocompatibility and Adaption of a Coronary Artery Stent 138
Wen Liu, Qingfang Liu, and Guochong Chen

Evaluation of the Effects of Sterilization by Irradiation on Histocompatibility and Adaption of a Central Vein Catheter 147
Wen Liu, Qingfang Liu, and Guochong Chen

Study of Environment Maintenance Feasibility of Polyvinyl Alcohol 156
Juan Guo and Jin Zhang

Effectiveness Study of Agriculture Listed Corporation Based on BC^2 ... 163
Lei Chen

The Evolution Analysis of Resistance Genes in Sorghum 171
Ling Jin, Li Wang, Yakun Wang, Shuai Zhang, and Dianchuan Jin

Evolutionary Analysis of Cellulose Gene Family in Grasses 178
Yakun Wang, Li Wang, Ling Jin, Jinpeng Wang, and Dianchuan Jin

Evolutionary Computing and Applications

Application of Attributes Reduction Based on Rough Set in Electricity Distribution 184
Dajiang Ren

Application of Least Squares Support Vector Machine in Fault Diagnosis 192
Yongli Zhang, Yanwei Zhu, Shufei Lin, and Xiaohong Liu

Application of Grey Forecasting Model to Load Forecasting of Power System 201
Yan Yan, Chunfeng Liu, Bin Qu, Quanming Zhao, and Feifei Ji

The Model of NW Multilayer Feedforward Small-World Artificial Neural Networks and It's Applied 209
Ruicheng Zhang and Peipei Wang

Harmony Search Algorithm for Partner Selection in Virtual Enterprise 217
Zhan-fang Zhao, Li-xiao Ma, Wen-long Qu, Ji-wei Xu, and Ji-chao Hu

Supply Chain Optimization Based on Improved PSO Algorithm 225
Xianmin Wei

Registration Algorithms of Dental Cast Based on 3D Point-Cloud 233
Xiaojuan Zhang, Zhongke Li, Peijun Lu, and Yong Wang

Decoupling Method Based on Bi-directional Regulation Principle of Growth Hormone for Mixed Gas Pipeline Multi-systems 241
Zhikun Chen, Xu Wu, and Ruicheng Zhang

Research on Association Rules Parallel Algorithm Based on FP-Growth 249
Ke Chen, Lijun Zhang, Sansi Li, and Wende Ke

Multi-Objective Optimization Method Based on PSO and Quick Sort ... 257
Xie Shiman and Shang Xinzhi

A Rough Set-Based Data Analysis in Power System for Fault Diagnosis 265
Dajiang Ren

Synchronization of Uncertain Chaotic Systems with Different Structure in Driven and Response Systems 273
Junwei Lei, Aiqiang Xu, Yuliang Chen, and Guoqiang Liang

Information Education and Application

Study on Innovative Culture Construction in Newly Established Local Undergraduate Course Academies 280
Yanchun Shen, Yinpu Zhang, and Zhihua Hao

The Problems of Work Placements in Application-Oriented Undergraduate Colleges and Its Countermeasure Research 286
Yanchun Shen, Yinpu Zhang, and Minglin Yao

Using PERT/CPM Technology for the Development of College Graduates Seeking Employment in Project Planning 293
Xiaoqing Lu, Shuming Guan, Ruyu Tian, and Wenyi Zhang

The Research for Effecting to Basic Mathematic Based on PCA 300
Junna Jiang, Linlin Liu, and Xinchun Wang

Research and Application of Five Rings Model in Mathematics Courses Reformation for Engineering Students in Independent College 306
Nan Ji, Qiuna Zhang, and Weili Chen

Practices and the Reflections on the Bilingual Education 312
Hai-chao Luo, Kai Zhou, Teng Chen, and Wei Cao

Research on Problems and Countermeasures of China's Urban Planning Education 319
Hai-chao Luo, Li-fang Qiao, Zhi-hong Liu, and Xing-zhi Peng

The Research on Modern Information Technology in College Music Teaching Application 326
Qiu Yan Fu

Research on Cultivating Innovate Thinking of Environment Art Students 332
Lili Cui

Information Specialty Experiment Remote Tutor System Development and Application 338
Xiu Hui Fu, Li Ping Fan, and Shu Li Ouyang

Research on the Model of Practice Teaching Base on Project Driven Teaching 344
Xiu Hui Fu and Li Ping Fan

The Discussion on the Teaching Reform of the "Electromagnetic Fields and Electromagnetic Waves" Based on "Field Techniques" 350
Yinpu Zhang, Yanchun Shen, and Minglin Yao

Fuzzy Comprehensive Evaluation Model in Work of Teacher Performance Evaluation 358
Xiaoling Liu, Haijun Chen, and Feng Yan

Application of Simple Examples in Experiment Teaching about Complex Function and Integral Transform 364
Yan Yan, Dianchuan Jin, Yankun Li, Huijuan Zhao, and Xining Li

Competency Based Human Resource Management Reform in Undergraduate Teaching 372
Wenhui Li

Internet and Web Computing

The Application of Genetic-Neural Network on Wind Power Prediction 379
Rui-Lin Xu, Xin Xu, Bo Zhu, and Min-you Chen

Design a Mobile Tetris Game Based on J2ME Platform 387
Jian-Ping Wang, Jun Chen, and Xiao-Min Li

Grid Service-Level Concurrency Control Protocol 394
Chen Jun, Wang Jian-Ping, and Li Yan-Cui

Research of Serial Communication Module in Web Based on javax.comm 401
Yan-pei Liu, Hong-yu Feng, and Jian-ping Wang

Dynamic Invariance and Reversibility Preservation in Self-loops Connection of Petri Net Systems 408
Fei Pu

Study on the Key Technology of News Collection and Release System Based on Java 418
Hong-yu Feng, Yan-pei Liu, Yan-cui Li, and Quan-rui Wang

A Living Time-Based Parallel Multi-Path Routing Algorithm for Mobile Ad Hoc Networks 424
Min Huang, Hong Li, and Qinpei Liang

New Method for Intrusion Detection Based on BPNN and Improved GA Optimization 434
Yuesheng Gu, Yanpei Liu, and Hongyu Feng

Creating Learning Community Based on Computer Network to Developing the Community Education 441
Lingyun Zheng, Caiyun Zheng, and Chunyan Li

Security Assessment of Communication Networks for Integrated Substation Automation Systems 448
Huisheng Gao and Xuejiao Dai

Design and Implementation of Multimedia Online Courseware Based on XML/XSLT and JavaScript 456
Lili Sun, Minyong Shao, and Min Wu

The Delay of In-Network Data Aggregation for 802.15.4-Based Wireless Sensor Networks 463
Xiaoyue Liu, Lin Zhang, Zhenyou Zhang, and Yiwen Liu

About the Thinking of the Influence of Internet to the University Students 471
Naisheng Wang

Multimedia Networking and Computing

Design and Implementation of the Image Processing Algorithm Framework for Remote Sensing 479
Han Ling, Tao Fada, and Li Minglu

A Multi-Attribute Group Decision Method Based on Triangular Intuitionistic Fuzzy Number 486
Xiaoyun Yue, Dewen Zou, Yajun Guo, and Guosheng Wang

Comparative Analysis of Three GARCH Models Based on MCMC 494
Yan Gao, Chengjun Zhang, and Liyan Zhang

Exploration and Research of P2P Technology in Large-Scale Streaming Media Application 500
Xianmin Wei

Design and Realization of Smart Home System Based on ZigBee 508
Jian-Ping Wang, Hong-Yu Feng, and Yan-Cui Li

Research on Digital Electronics Teaching 515
Xiao-min Li, Bing Liang, Meng-chao Zhang, and Guang-chun Fu

Implementation and Assessment of Project-Based Instruction in 3Ds Max Course 522
Shouping Wang

Image Search Reranking with Transductive Learning to Rank Framework 529
Jing Zhang, Peiguang Jing, Zhong Ji, and Yuting Su

Model Checking Analysis of Observational Transition System with SMV 537
Tao He, Huazhong Li, and Guorong Qin

Parallel and Distributed Computing

The Design and Implementation of E-government System Based on County 545
Dong'en Guo, Jingyu Xing, and Xuwan Wang

Study of the Single-Machine Multi-criteria Scheduling Problem with Common Due Date 552
Shuming Guan, Xiaoqing Lu, Jia Liu, and Ruyu Tian

Stochastic Frontier Analysis for New Venture's Innovation Performance 560
Wang Li-yan and Song Xiao-zhong

The Similarity Weighting Method of Mixtures Kernel in the Synthetic Evalution Function of KPCA 568
Xinghuo Wan, Jiejie Guo, and Yili Tan

Short-Term Power Load Forecasting by Interval Type-2 Fuzzy Logic System 575
Lan Yao, Yu-lian Jiang, and Jian Xiao

Improved TOPSIS Method and Its Application on Initial Water Rights Allocation in the Watershed 583
Chun Xiao, Dongguo Shao, and Fengshun Yang

Research on Robustness of Double PID Control of Supersonic Missiles 593
Wenguang Zhang, Junwei Lei, Xianjun Shi, and Guoqiang Liang

Teaching Research on DSP Technology and Applications 600
Xiao-min Li, Meng-chao Zhang, Xiao-ling Li, and Xin Ning

Campus Card: Strengthen the Informatization of Financial Management in Colleges and Universities 606
Jun Zheng, Guangbiao Sun, and Xiuli Hou

Design and Fabrication of Nonlinear Grating by Holographic Technology 614
Benju Wang and Lichun Pu

ELF-Based Computer Virus Prevention Technologies 621
Yinbing Li and Jing Yan

Analysis on Development Tendency of Business Process Management ... 629
Jiulei Jiang, Jiajin Le, Feng He, and Yan Wang

Scientific and Engineering Computing

Relation between a Second-Order Spectral Problem and the Confocal Involutive System 637
Wei Liu, Hai-zhen Sun, and Shan Feng

Radio Frequency Identification Technology and Its Application in the Library 646
Changquan Bi, Jian Cao, and Xiaodi Sheng

ULE Method for Elastic Conical Shell 652
Yajuan Hao, Honglai Zhu, Xiangzhong Bai, and Yiming Chen

Dynamic Construction of Power Voronoi Diagram 660
Yili Tan, Lihong Li, and Yourong Wang

The Research for Effecting to Traffic Congestion of Tangshan Based on PCA 668
Junna Jiang, Caidonng Bian, Yili Tan, and Xueyu Mi

Study on Distribution Route Choice for Explosive 676
Xue-yu Mi, Peng Zhang, Zheng Li, Bo Dong, and Li-fen Yi

Research on the Component Description Method of General Attributes 683
Yan-pei Liu, Jun Chen, and Yan-cui Li

The Existence and Simulations of Periodic Solution of a Two-Species Cooperative System with Impulsive Perturbations 689
Kaihua Wang, Yan Yan, and Zhanji Gui

Research and Application on the Regular Hexagon Covering Honeycomb Model 696
Aimin Yang, Jianping Zheng, and Guanchen Zhou

Study on Blood Compatibility of the Radiation Sterilized Disposable Burette Transfusion Apparatus 703
Wen Liu, Qingfang Liu, and Guochong Chen

Author Index 711

Table of Contents – Part I

Computational Statistics

Monotone Positive Solutions for Singular Third-Order m-Point Boundary Value Problems 1
Hai-E Zhang, Cheng Wang, Wen-Feng Huo, and Guo-Ying Pang

Time Asymptotically Almost Periodic Viscosity Solutions of Hamilton-Jacobi Equations 9
Shilin Zhang

Fuzzy Mathematics Method in the Evaluation of Teaching Ability 16
Youchu Huang

Hamilton Non-holonomic Momentum Equation of the System and Conclusions 23
Hongfang Liu, Ruijuan Li, and Nana Li

The Analytical Solution of Residual Stress in the Axial Symmetry Object 30
Qiumei Liu, Guanghui Wang, and Junling Zheng

An Estimation for the Average Error of the Chebyshev Interpolation in Wiener Space 37
Liu Xiong and Gong Dianxuan

A Numerical Method for Two-Dimensional Schrödinger Equation Using MPS 44
Tao Li, Guo-Dong Wang, and Zi-Wu Jiang

Dynamical Systems Method for Solving First Kind of Operator Equations with Disturbance Item 52
Jiang Cheng-Shun and Wang Xian-Chao

Numerical Simulation of One Dimensional Heat Conduction Equation for Inverse Problem 60
Dongmei Li, Qiuna Zhang, Yan Gao, and Rongcui Zheng

Improved Reaching Law Sliding Mode Control Applied to Active Power Filter 67
Xiao Zhang, Jing Li, and Xiaolei Liu

Multiple Integrals and the Calculating Method of Its Limit 75
Ma Xing-Hua, Li Dong-Mei, and Zhang Huan-Cheng

Cubic B-Spline Interpolation and Realization 82
Zhijiang Wang, Kaili Wang, and Shujiang An

Statistical Analysis and Some Reform Proposals of Statistics Education 90
Lichao Feng, Shaohong Yan, Yanmei Yang, Yafeng Yang, and Huancheng Zhang

Research on SPSS' Application in Probability and Statistics Course with Principal Components Analysis 96
Yafeng Yang, Shujuan Yuan, and Li Feng

Social Networking and Computing

Empirical Analysis on Relation between Domestic Tourism Industry and Economic Growth in China 102
Wang Liangju, Li Wanlian, and Wang Yongpei

Study of Coordinated Development between Urban Human Settlement and Economy Based on Entropy Weight Method 110
Wenyi Zhang, Cuilan Mi, and Shuming Guan

An Empirical Study on Influence Factors of Earnings Forecast Disclosure Willingness 118
Xu Nan, Zhang Wei-li, and Wang Li-yan

Study on Critical Technologies of Earth-Fill Shore-Protection Structure in the Three Gorges Reservoir 126
Xiaoying He, Hongkai Chen, and Hudui Liu

The Research on Lubricating Property of Piston Pin by AVL Excite Designer 136
Huo Ping, He Chuan, Li Yuhong, and Tian Lvzhu

Application of Atmosphere-Environment Quality Assessment Based on Fuzzy Comprehensive Evaluation 142
Shufei Lin, Yongli Zhang, and Yanwei Zhu

Numerical Simulation of Low-Speed Combustion Using OpenFOAM on Multi-core Cluster Systems 150
Liu Zhi-qin, Sun Zhao-guo, Chen Hao-nan, and Liu Tao

AntiMalDroid: An Efficient SVM-Based Malware Detection Framework for Android 158
Min Zhao, Fangbin Ge, Tao Zhang, and Zhijian Yuan

Mining the Concise Patterns for Service Reliability Prediction 167
Ying Yin, Xizhe Zhang, and Bin Zhang

Study on the Current Situation and Coordination Policies Concerning the Regional Differences in Tourism Investment Environment of Hebei Province 174
Wei Guo, Fang Lv, and Na Song

The Mathematical Model of the College Students' Employment and Analytical from the Perspective of Economy 181
Cheng Lijun, Kou Yilei, and Zhao Haiyan

The Foundation of the Mathematical Model of Economic Impact and the Analysis of the Effect on the Economy of Shanghai World Expo 189
Lijun Cheng and Lina Wang

Research of Economic Growth Model of Shanghai World Expo Impact 197
Yunhua Qu

Based on AHP Quantitative Assessment of Tourism Impact 205
Jia Peipei, Zhang Tai, Cui Wei, Zhang Jie, and Shi Xiaoshuang

Influence of FDI on the Total Export of Shanxi Province 213
Li Miao

Evolutionary Computing and Applications

Application of Fuzzy Cluster Analysis for Academic Title Evaluation ... 221
Baofeng Li and Donghua Wang

Research on Granularity Pair and It's Related Properties 227
Li Feng, Chunfeng Liu, Jing Wang, and Dongzhong He

Research and Application of Parallel Genetic Algorithm 235
Yamian Peng, Jianping Zheng, Chunfeng Liu, and Aimin Yang

Reform and Practice of Computational Intelligence 243
Haiyan Xie, Kelun Wang, and Xiaoju Huang

Design and Research of Intelligent Electronic Scheduling Course Algorithm 251
Qing-yun Ru, Dan Liu, and Jing-yi Du

How to Build a Harmonious-Classroom Based on Information Technology 257
Lin Jiang, Gelin Dai, Jiaxin Xu, and Guikao Yang

Information Technology Research and Its Application on Physics 263
Zhang Haishan, Zhou Haiyun, and Li Wei

Collaborative Filtering Algorithm Based on Improved Similarity Calculation 271
Yang Hongmei

The Research and Application of Fuzzy EntropyWeight Comprehensive Evaluation Method in Paper Quality Evaluation 277
Cuilan Mi and Baoxiang Liu

Global Exponential Stability Analysis for Uncertain Stochastic Neural Networks with Discrete and Distributed Time-Varying Delays 284
Guan Wei and Zeng Hui

Research on the Fuzzy Evaluation System in China's Sports Network Course Teaching 293
Yunzhi Peng

The Application of Cloud Computing Technology in University Digital Libraries 300
Zhang Haishan, Zhou Haiyun, and Meng Kenan

A Quantum Genetic Algorithm to Solve the Problem of Multivariate ... 308
Bing Han, Junna Jiang, Yanhui Gao, and Junhong Ma

Information Education and Application

The Perspective of Job Requirements on Teaching Reform of the CIM Major 315
Yuesheng Zhang

Importing MB-OFDM Synchronization Approach into Core Curriculums for Postgraduates Education 322
Zhihong Qian, Xiaohang Shang, Jin Huang, and Xue Wang

Application of Modern Design Methods in the Graduation Designs of Mechanical Engineering Science 330
Fuxiang Zhang and Wenzhong Li

On the Systematic Measures about the Innovative Education of the University Students 337
Yunsheng Cao

Theory and Practice of Engineering Mathematics in Innovative Education of Computing Science Specialty 345
Youcai Xue

Research on the Construction of Financial Information System after Universities' Merger 353
Jun Zheng, Guangbiao Sun, and Xiuli Hou

Research on Academic and Performance of Teachers in Universities 360
Jing Tan, Yinlin Wu, and Yanan Li

Multi-dimension System of Imbarking Education in Colleges and Universities 366
YinLin Wu, Jing Tan, Yanan Li, and Mingxi Zhang

Synthesized Reform Practice Links of Mechanical Basis Course Group for Applied-Typed College Students 372
Liyan Feng, Chunguang Lu, and Yingfei Gao

The Survey on the Teaching Methods of Mathematics Teachers from High Schools in Handan 379
Zhang Yanxia and Yang Cangyu

The Design of Aerobics Course Theory Examination Question Database Management System 387
Xiuling Ou, Baoming Yu, and Yukuo Wang

Exploration on Assessing-Method Reform of Engineering Management Major 394
Jiefang Tian, Xingguo Wang, and Wei Ming

College Students' Mathematical Contest and the Training of Mathematics Quality 400
Cuilan Mi and Baoxiang Liu

Application of Digital Storytelling in Comprehensive Practice Activity Curriculums 406
Jiangyan Zheng, Jiongzhao Yang, Hao Zhang, Lili Wang, Zhongkui Sun, and Huan Xue

Practice of "Design of Integrated Circuit Layout" Course Construction 415
Jian Wang and Liping Fan

Internet and Web Computing

Mathematical Formula Design Based on Mobile Learning Environment 421
Yanan Li, Hao Zhang, Yanling Meng, and Honghui Wang

Network-Based Construction of Open Virtual Laboratory Teaching Platform 427
Dong Lu, Chen Lian Qing, Xian Yu Dan Qian, Cui Ying Shan, Kan Lian He, and Song Li Chuan

An Adaptive Routing Algorithm for Ad Hoc Network 434
Sihai Zheng, Layuan Li, and Yong Li

An Efficient Clustering Algorithm for Mobile Ad Hoc Networks 442
Sihai Zheng, Layuan Li, Yong Li, and Junchun Yuan

Research on Semantic Web Service Composition Based on Ontology Reasoning and Matching 450
Jianfeng Zhang, Piyuan Lin, Peijie Huang, and Guangfa Wu

A Study of Indoor Distributed Calculation Model of Mobile Communication 458
Yinpu Zhang, Fang Wang, Yanchun Shen, and Wenfeng Huo

Research of Semantic Web Model and Reasoning Based on F-Logic 466
Guorong Qin, Tao He, and Liping Li

Design and Implementation of Educational Administration System on the Basis of C/S and B/S Heterogeneous Architecture 473
Yan Jiang

Strategic Measures of Network Marketing of SME Brand 482
Zhou Zhigang

Design and Accomplishment of Campus WebGIS Based on B/S Model—A Case-Study of Hebei Polytechnic University 489
Xiaoguang Li, Fenghua Wu, and Shunxi Yan

Design and Implementation of WLAN Monitoring and Management System 496
Jiantao Gu, Qun Wei, and Wei Li

Research on Layer 2 Attacks of 802.11-Based WLAN 503
Ji Zhao, Jiantao Gu, and Jingang Liu

Stability Model on Website Competition and Cooperation of Establish and Analysis Evidence 510
Xu Huianxin, Jiang Wenchao, and Zhao Guoqi

Scientific and Engineering Computing

On the Improvement of Motive Mechanism to Enhance the College-Enterprise Corporation on Vocational Education 518
Guoqing Huang, Tonghua Yang, and Sheng Xu

Reform of Biochemistry Teaching for Municipal Engineering Graduate Based on the Theory of Brain Science 524
Changhong Jia, Lixin Chang, Weijie Wang, Yuxin Pan, and Liyan Feng

Numerical Analysis of Wu-Yang Highway Tunnel Excavation and Support 532
Lu Hong-Jian, Gan De-Qing, Yang Zhong-Jian, and Lu Xiao-Na

Minimal Surface Form-Finding Analysis of the Membrane Structure 539
Nan Ji and Yuanyuan Luo

Influence of Coal Price to Exploitation Mode in China 546
Chen Shuzhao, Wang Haijun, Li Kemin, and Xiao Cangyan

Finite Element Analysis on the Drum of Concrete Mixing Truck 554
Li Dong-mei and Ma Xing-hua

Lateral Escape Capability Analysis with Probabilistic Pilot Model for Microburst Avoidance 560
Gao Zhenxing, Gu Hongbin, and Gao Zheng

On the Development of Engineering Management and the Education of Such Personnel in This Area 568
Jiefang Tian, Xingguo Wang, and Wei Ming

Research on the Urban Ecological Bearing Capacity of Resource-Based Cities—Tangshan as an Example..... 574
Ma Jingzhong

Motor Vehicle Emission Pollution Evaluation Model Based on Multi-user Dynamic Network 580
Aiping Lian

System Simulation Computing

Application of Fuzzy Mathematics in Real Estate Valuation 588
Yanwei Zhu, Yongli Zhang, Shufei Lin, and Xiaohong Liu

On the Compound Poisson Risk Model with Debit Interest and a Threshold Dividend Strategy 596
Chunwei Wang, Xigang Du, and Qiaoyu Chen

Research of Distributed Heterogeneous Database Query Technology Based on XML 604
Honghui Wang, Zhihui Chen, Hao Zhang, and Yanan Li

Risk Quantitative Analysis of Project Bidding Quotation Based on Improved AHP Method 611
Hong Wang, Wei Liu, and XiaoLi Cai

Prediction Based on Wavelet Transform and Support Vector Machine... 618
Xiaohong Liu, Yanwei Zhu, Yongli Zhang, and Xinchun Wang

Schur Convexity for a Class of Symmetric Functions..... 626
Shu-hong Wang, Tian-yu Zhang, and Bo-yan Xi

The Study on Clutch Shift Control Based on Sliding-Mode 635
Zhang Guang Hui

Numerical Simulation Program of an Elastic Membrane Considering the Fluid-Structure Interaction 643
Liu Jian-Min and Cai Zhen-Xiong

Green Theory Research and Practice on Indoor Air Pollution by Overall Process Controlling 651
Liu Jun and Zhuo Yuguo

Regularization Method Combined with Parameter Competitive Criterion for Model-Plant Performance Matching of Aircraft Engine 657
Lifeng Wang and Datian Zhong

Study of Flow Control System Model Based on Bypass Protocol Analysis 665
Sujuan Zhang, Yanli Zhang, and Zhijie Fan

Research on the Application of Improved K-Means in Intrusion Detection 673
Mingjun Wei, Lichun Xia, and Jingjing Su

Application Research of Analytic Hierarchy Process in the Evaluation of College Cadres 679
Xuejun Wang, Haijing Bai, and Yujing Shi

The Research of Finacing Higher Education in the Context of Financial Crisis 686
Yuxin Liang, Zhenhai Lei, and Yu Zhang

Study on the Theorem Proving of Plance Pencil Equation 695
GuoKun Xia, LinTao Kong, YinLi Liu, Jia Liao, Rui Hai Zhang, and YingJie Zhu

The Reserching of the Second-Order Matrix Eigenvalue Problem 703
Shujuan Yuan and Yafeng Yang

Author Index 711