# TABLE OF CONTENTS

The Visualization Research of User Observation and Quantitative Information .......................................................... 1  
Xin Zhang, Hai Fang, Fei Hu

Risk Evaluation of Gas Pipeline Based on Rough Set .......................................................................................... 9  
Hongyan Gu

Research and Simulation of Network Intrusion Detection Algorithm Based on Fuzzy Classification .................. 14  
Chun Liu

Research on Face Recognition Method of Airport Security with Certificate Inspection ..................................... 18  
Ning Zhang, Jin-fu Zhu

Optimization Method of Concurrency Scheduling of Graphical Database Transaction .................................. 22  
Lin Nan, Dongming Li, Yongqi Han

An Improved Neural Network Optimization Method .......................................................................................... 27  
Wen-long Yin, Tian-hui Zhang, Li-hua Guo, Jie Tao

Rotor Stationary Control Analysis Based on Coupling KdV Equation Finite Steady Analysis .......................... 31  
Dalong Liu, Lijuan Xu

Virtual Reality Technology and Application in Distance Education Presentation ............................................. 36  
Hong-Xuan Hua

Intelligent Shutter System Design of Photovoltaic Power Generation Based on Single Chip Microcomputer Control .......................... 40  
Mingfei Qu, Dan Zhao

Mechanical Hydraulic Control of Water Turbine Based on Improved PID Algorithm .................................. 44  
Xing-Hua Lu

Research of Detection Method of Server Network Storm Attack .................................................................. 48  
Liao Lang

Analysis of Impacting Factors on Runoff and Sediment Transport of Flood Event in Gushanchuan Watershed .......................................................................................................................... 52  
Shuangyan Jin, Xinhui Jiang, Zhiheng Zhang

The Establishment of AHP-Fuzzy Model for Comprehensive Evaluation of “City Obesity” Degree .................... 56  
Suying Xiang, Xiaofeng Li

Adsorption of Uranium-containing Wastewater by Sugarcane Stalks ................................................................. 63  
Yi Xin, Wu Dong

The Research on Energy Releasing Control of Travelling Charge .................................................................. 67  
Tai-xin Liang, Bing-feng Lv, Zhong-liang Ma, Zhong-liang Xiao

Establishment of the Fatigue Curve Model Based on Stress Ratio .................................................................. 71  
Liang Zhu, Yiliang Zhang, Xiaohui Li, Hongbo Suo

Vegetable Quality and Safety Supervision Technology Integration Solutions and Evaluation .......................... 76  
Ma Chen, Jin Li

Biofilm Accretion and Start-up By Aerated Active Sand Biofilter ..................................................................... 83  
Yu Xi, Jin Cheng Li

Synthesis of Polyaniline in Electrospun Microfibers Via In-situ Polymerization and the Formation of Self-assemble Polyaniline Particles .............................................................................................................. 87  
Haizing Cui, Hui Zhou, Xuejing Zhang, Chengzhong Zhao

Isotherm Study on Adsorption Removal of Pb (II) by MCM-41 Zeolite Synthesized from Biomass Ash .......... 91  
Gang Tan, Yongjie Xue, Jia Cai

Phenol Adsorption onto Modified Industrial Solid Waste Adsorbents in the Presence of Cationic and Anionic Surfactant .......................................................................................................................... 97  
Gang Tan, Yongjie Xue, Jia Cai

Adsorption Mechanisms of Purified Attapulgite for Zn^{2+} in Aqueous Solution .................................................. 103  
Ling Tao, Yina Li, Yaqiong Zhao, Jun Ren, Yijie Wang

Lateral Load-carrying Capacity Research of Steel Plate Bearing in Space Frame Structure .......................... 108  
Menghong Wang, Xueying Yang, Yashen Liu, Chanyue Song, Shanshan Shi

Reconstruction and Overcommercialization of South Luogu Lane ................................................................. 113  
Yi-lin Liu, Yu Huang

Analysis of the Water Quality Deterioration in Secondary Water-supply Systems ........................................... 120  
Cuihua Li, Guanye Wang

The Effect of Dispersoids on Recrystallization Behavior of Al-Er and Al-Er-Zr Alloys at Different Aging State ................................................................................................................................................. 124  
Jie Hou, Shengping Wen, Kunyuan Gao, Hui Huang, Wei Wang, Zuoren Nie
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Investigation on the Engineering University Students’ Entrepreneurial Quality</td>
<td>128</td>
</tr>
<tr>
<td>Zhipeng Cheng, Hao Ding</td>
<td></td>
</tr>
<tr>
<td>Effects of Er and Zr Additions on Precipitation and Recrystallization of Al-Mg Alloy</td>
<td>132</td>
</tr>
<tr>
<td>Wanhui Zhao, Shengyin Wen, Wei Wang, Hui Huang, Zhiyin Nie</td>
<td></td>
</tr>
<tr>
<td>Survey of Synthesis and Application of Molybdenum Diselenide</td>
<td>136</td>
</tr>
<tr>
<td>Shuyan Qi, Xiaohua Liu, Bochao Zhao, Huanxin Xu</td>
<td></td>
</tr>
<tr>
<td>Effect of Cr Content and Heat Treatment on Microstructures and Mechanical Properties of Cu-Cr-Zr Alloys</td>
<td>140</td>
</tr>
<tr>
<td>Qingjuan Wang, Xiao Zhou, Xiao-wen Zhang, Bo Liang, Zhong-e Du</td>
<td></td>
</tr>
<tr>
<td>Research on the Indirect Thermal Drying Sludge Technology Based on Spiral Equipment</td>
<td>145</td>
</tr>
<tr>
<td>Jianhua Tao, Bin Chen, You Wen Bao, Cheng Pu Jin</td>
<td></td>
</tr>
<tr>
<td>Modal Analysis of the Printed Circuit Board Based on Finite Element Method</td>
<td>150</td>
</tr>
<tr>
<td>Guoquan Ren, Ben Li, Dongwei Li, Yingyi Jiao</td>
<td></td>
</tr>
<tr>
<td>Improved Probability Algorithm Based on Low Energy Bluetooth Technology</td>
<td>155</td>
</tr>
<tr>
<td>Zhu Lin</td>
<td></td>
</tr>
<tr>
<td>Research on Industrial Control Strategies of Industrial Ethernet and Fieldbus</td>
<td>158</td>
</tr>
<tr>
<td>Xuefeng Tan, Yachun Dong</td>
<td></td>
</tr>
<tr>
<td>Separation Properties of Countable Infinite Iterative Function System Based on the Discrete Element Method</td>
<td>163</td>
</tr>
<tr>
<td>Xiaochun Tang, Wei Zhang, Meili Dai</td>
<td></td>
</tr>
<tr>
<td>Analysis and Application of the Computer Network Information Data Mining Based on Clustering Algorithm</td>
<td>168</td>
</tr>
<tr>
<td>Zequan Shi, Ying Wang</td>
<td></td>
</tr>
<tr>
<td>Optimization Analysis of XML Embedded System Based on J2ME Platform</td>
<td>172</td>
</tr>
<tr>
<td>Ying Wang, Zequan Shi</td>
<td></td>
</tr>
<tr>
<td>The Application and Research of Property-management Information System based on JSF Technology</td>
<td>176</td>
</tr>
<tr>
<td>Tang Lin</td>
<td></td>
</tr>
<tr>
<td>Physique Characteristics of Ethnic Archers Based on R-cluster Matrix</td>
<td>181</td>
</tr>
<tr>
<td>Yansheng Wang, Yifan Ma</td>
<td></td>
</tr>
<tr>
<td>Application Research of Library Management System of Network and Information Technology</td>
<td>186</td>
</tr>
<tr>
<td>Junxia Qi</td>
<td></td>
</tr>
<tr>
<td>Exploration and Research on Intelligent Traffic Control System based on Cloud Computing</td>
<td>192</td>
</tr>
<tr>
<td>Hongxia Liu</td>
<td></td>
</tr>
<tr>
<td>Design on Network Management System of Community Movements Based on ASP and VB.NET Technology</td>
<td>198</td>
</tr>
<tr>
<td>Yaohai Wang</td>
<td></td>
</tr>
<tr>
<td>Research on Data Synchronization Technology of Mobile Database Based on Real-time Embedded System</td>
<td>203</td>
</tr>
<tr>
<td>Yajie Xiao</td>
<td></td>
</tr>
<tr>
<td>Design on jQuery Evaluation System Framework of Movements Resource</td>
<td>208</td>
</tr>
<tr>
<td>Yaohai Wang</td>
<td></td>
</tr>
<tr>
<td>Research on the CBI System of Four-dimensional Model</td>
<td>212</td>
</tr>
<tr>
<td>Cuiping Ji</td>
<td></td>
</tr>
<tr>
<td>Network Psychological Status and Role Analysis on Theory of Personality Interaction</td>
<td>216</td>
</tr>
<tr>
<td>Tianlin Chen, Lan Luo</td>
<td></td>
</tr>
<tr>
<td>The Development of Group Psychology Measurement System based on Computer Multimedia Technology</td>
<td>221</td>
</tr>
<tr>
<td>HuaJie Sui, YaoHui Ye, ZhiBing Zhong</td>
<td></td>
</tr>
<tr>
<td>The Formalization Research on Self-adaptive Psychological Surveying System</td>
<td>226</td>
</tr>
<tr>
<td>Lan Luo, Tianlin Chen</td>
<td></td>
</tr>
<tr>
<td>Network Environment Design of Computer Personality Psychology Based on the Personalized Data Mining Method</td>
<td>230</td>
</tr>
<tr>
<td>Zhbing Zhong, Junrong Yang, Xiaofei Xiao</td>
<td></td>
</tr>
<tr>
<td>Analysis of Job Satisfaction based on Oracle Database</td>
<td>235</td>
</tr>
<tr>
<td>Tao Wang</td>
<td></td>
</tr>
<tr>
<td>Application of Computer 3D Simulation in Architectural Art Effect</td>
<td>239</td>
</tr>
<tr>
<td>Peng Wei</td>
<td></td>
</tr>
<tr>
<td>Study on CEI Network Model of Public Management</td>
<td>243</td>
</tr>
<tr>
<td>Dingsong Lan, Shuyan Cheng</td>
<td></td>
</tr>
<tr>
<td>Emergencies Prediction Model Based on Efficient Mining for Micro-blog</td>
<td>248</td>
</tr>
<tr>
<td>Wenshia Bi</td>
<td></td>
</tr>
</tbody>
</table>
Research for Digital Video Image Processing of Table Tennis
Ying Xuan, Chang Liu
Mathematical Classification Process Modeling for Massive Data with Small Differences
Ge Gou
Research on Transaction Security Detection Algorithm for Large-scale E-commerce Website
Guixiang Hu, Xinjie Qian, Quixin Fu, Bo Yang
An Optimization Scheduling Model for Multi-user Software Under Cloud Computing Environment
Xiang-gang Wang
Detection Technology for Underlying Intrusion of Large Embedded Network
Yimei Lai
Effective Scheduling Model of Data in Financial Management Software Running Process
Jianchun Sun
The Simulation of the Optimal Classification Mathematical Model Based on Chaos Probabilistic Analysis
Chunyan Lv, Chuan He, Erwei Wang
The Modeling of College Students’ Psychological Health Based on Statistical Analysis
Huiling Wang
Detection of Behavior Violating Ethics Rules in Computer Networks
Fan Yang
The Mathematical Model Simulation of Law Risk Evaluation for Intellectual Property Protection
Caixia Zou, Bing Zhou
Intrusion Detection Localization Method of Large Association Embedded Network Equipment
Liao Lang, Zhenjia Zhu
Design and Implementation of Web Based on Laravel Framework
Ren Yu He
Design and Implementation of an Iterative Optimization Algorithm Based on the C Language
Ce Yao
The Role of Information Technology Application Research
Baowei Zhang
A Snort-based Approach for Heartbleed Bug Detection
Yu Zhang, Qingzhong Liu, Yanling Liu
Embedded Network Video Monitoring System
Long Chen, Zhuhai Zhang, Peng Guo
New Randomized Partially Blind Signature Scheme
Xinghua Zhang
Goodness-of-fit Test for Normally Distributed Ar(1) Disturbances of the Multiple Linear Regression Model
Yan Su, Ya-Ping Huang, Xia-Yong Su
The Geometry Optimization Design of a Rectangular Cross-sectional Rail Launcher
Chengwei Yang, Zhen-yuan Liu, Bao Kang
Image Adaptive Edge Detection Based on Canny Operator and Multiwavelet Denoising
Lin Zhang
An IETM Application Research of Equipment Testing Fault Auxiliary Diagnosis Based on Web
Jun Peng, Hui Li, Qingjiang Wang, Pei Cheng, Xin Shan
SIFT Points for Screening Based on Random Forest in INS/SAR System
Hao Dou, ShaoJun Li, Xiao Sun, Tian Tian, ShuiPing Zhang, DeLie Ming
Turing-computability of Solution of Hirota Equation
Dianchen Lu, Liming Fu
Ship Detection in Strong Clutter Environment Based on Adaptive Regression Thresholding for HFSWR
Yonggang Ji, Leda Xu, Yiming Wang, Xiaoliang Chu
Technique of Optical Target Fusion Recognition Based on Fuzzy Evidence Theory
Jian-biao Chen, Hua-yuan Sun, Yong-hui Zheng
Construction Based on the Social Development Needs of the University Network Platform
Gong Yu
A Research of How to Distinguish Suspicious Data
Sheng-zhi Guo, Li-sen Pu, Cheng-wei Yang
Spares Inventory Optimization Based on System Availability
Rui Wang, Chen Qi, Wei Tao
Turing Computability of the Solution Operator of a Higher Order Modified Camassa-holm Equation
Dianchen Lu, Qiaoqiao Chen

Fast Image Retrieval Based on Two-dimensional Embedding
Kai Zhao, Shihan Wang, Wei Wang

A Depth Map Acquired By Integrated Imaging Based On Adaptive Matching Window
Xia Wen, Yu Wang, Yan Piao

Restoration Technology of the Video Under Snow
Xiaomeng Zhou, Yan Piao, Ge Shi

Recommendation with Item Clustering Based Collaborative Filtering
Xin Wang, Zhi Yu, Can Wang

An Improved Non-negative Matrix Factorization Algorithm Based on Genetic Algorithm
Sheng Zhou, Zhi Yu, Can Wang

Online Multi-keywords Map-search Algorithm Based on Sub-region Method
Zhi Yu, Zhonghan Sun, Yinlong Zhu, Can Wang

The Survey of Big Data
Qi Fu, Jun Tan, Yufang Xie

A Micro Blog Recommendation System Based on User Clustering
Lei Chen, Chao Jiang, Wei Wang

The Research of Chinese Name Entity Disambiguation Based On Word Sense Disambiguation
Gang Wang

Empirical Study on the Urbanization Promoting the Chinese Economic Growth
Huirong Jing

Study on the Structure of Chinese Dual Economy
Huirong Jing

The Principle of Urbanization Promoting Chinese Economic Growth
Huirong Jing

Optimal Scheduling of Combined cooling heating system
Shulei Deng

The Design of Desktop Two Rounds of Self-balancing Robot
Yingkun Zhang, Hao Hao, Zhou Zhen

Fingerprint Space Building Algorithm with Kriging for Large Positioning Regional Environment
Yue Wang, Wei-jia Cui, Da-ming Wang, Zhi-yu Lu

The Least Energy Criterion LEC and Its Application in Model Selection
Mu Qiao, Peng Wang

Algorithm of Repeated Results Re-ranking based on Polysemy
Pengwei Guo, Bin Zhang, Da-ming Sun

On the Model Design of Human Resource Management Based on Knowledge Management
Xiaohong Zhou

Study of the Method for Single Missile Storage Life Evaluation Based on Test Data
Wen Jun Xi, Wen Shuang Wang

Effective Length Of Quantum Confinement And Polaron Effect In A GaAs Film Deposited On Al0.3Ga0.7As Substrate
Bing-Can Liu, Yong-Feng He, Qiang Tian

Iterative Algorithms for System of Generalized Mixed Equilibrium Problems
Dianjiao Zhao, Yali Zhao

Mobile Phone 3D Animation Plot Auto-generation Based on Ontology
Jinjuan Wang

Research on Automatic First Break Picking Method in Seismic Data Processing
Rongxi Zhang

Data Acquisition System Research Based on Mobile Agent in Network Management
Yan Li, Li Zhu

Construction of Teaching Assisted Expert System in Engineering Training
Zhi-gang Zhang

Improved Node Matrix Optimization Method of Test Points at Circuit Board
Feng-yu Li, Yu-kun Yan, Long-fe Zhang, Zhi Chen, Long-tao Liao, Kai Xiao

Data Interface Design for Java-based Mysql Database
Hongxia Liu

The Development of Date Mining System Based on Data Mining Algorithms of B/S Framework
Hongxia Liu

Research on the TPE Biodegradable Biomedical Polymer Materials
Jing Jin
Research of Interference Elimination Method in Pollution with Fluorescent Bacterial ........................................ 513
Weiwei Jiang, Jinbao Shan

Design and Implementation Analysis of University Online Resource System .................................................. 517
Ke Zhang, Meng Yang

Water Ecological Restoration Model Analysis on Chongqing’s Polluted Reservoir ............................................. 522
Jie Xiang

Physical Analysis and Research Based on Data Mining ..................................................................................... 527
Xueqiang Zhu

Image Technology of Display Design Based on Digital Multimedia Implementation ....................................... 532
Xi Hu, Jing Li

Expression of Norovirus Virus-like Particles in Different Systems ................................................................. 537
Xing-Jian Cheng, Yan-Ling Wu, Yoshimasa Tanaka, Wen Zhang

The Researches on the Analysis of Medicinal Microbial Toxicity Spectral Curves ............................................. 541
Wei-Hong Liu

Analysis of the Planning Concept of Architectural Genius Loci ..................................................................... 545
HongLiang Guo

The Expert System for Goods Based on Supply Chain ...................................................................................... 550
Xiang-jie Niu, Hua Li

Author Index