

Table of Contents

Application of Accelerometer in Table Tennis Action Recognition	1
<i>Yin Chunyu</i>	
The Pattern Recognition Technology Application in the Electronic Information Feature Extraction	5
<i>Ruijuan Du, Shilin Cui</i>	
The Smart Campus Design and Implementation in Vocational College	10
<i>Wei Wei</i>	
Research and Application of High Dimensional Discrete Data Clustering Algorithm Based on Kernel Function	15
<i>Fulan Ye</i>	
Analysis of Electromagnetic Compatibility and Its Testing Technology Characteristics	19
<i>Zhang Guoying, Ma Xingang, Zang Yuwei, Xie Lianke, Zhang Yong</i>	
Analysis of Application of the IOT Technology in the Power System in the 5G Era	23
<i>Zang Yuwei, Xie Lianke, Ma Xingang, Gong Quanquan, Liu Hui</i>	
Analysis of EMC Technology for Power System Automation Equipment	28
<i>Zhang Yong, Xie Lianke, Zhang Guoying, Li Yong, Gong Quanquan</i>	
Application of Computer Information Encryption Technology in Network Security	32
<i>Aikebaier Jiang.aimait</i>	
Exploration and Application of Digital Shared Interactive System in Public Space of University Campus	35
<i>Weiliang Zhang</i>	
Research on Data Mining in Computer Aided Medical Diagnosing System	39
<i>Keke He, Junfeng Jia</i>	

Applications Research of Two-Dimensional Code Technology in University Fixed Assets Management	44
<i>Ying Zhou, Pancheng Li</i>	
Research on Face Recognition Technology Based on Computer Neural Network	49
<i>Min Tu</i>	
Research on Apriori Algorithm Optimization of Cloud Computing and Big Data in Software Engineering	53
<i>Wang Rui</i>	
Home Health Cloud Service System Based on Internet of Things	57
<i>Ji Yu</i>	
Research on Key Technologies of Computer Graphics Image Processing	63
<i>Ying Zhou, Pancheng Li</i>	
Study on Method of Building a Regional Digital Elevation Model Based on Accuracy Evaluation by Cross Validation	67
<i>Chen Keyun</i>	
Analysis of Intelligent Transportation System Based on Internet of Things	73
<i>Sixian Niu</i>	
Discussion on Access Control Technology of Cloud Computing	77
<i>Yibai Wang, Shi Chen</i>	
Research on Cloud Computing Resource Scheduling Based on User Satisfaction Based Genetic Algorithm	81
<i>Guanghui Wei</i>	
Analysis of E-commerce Information Ecosystem Model Based on Block Chaining	86
<i>Pan Deng, Jing Zhong</i>	
A New Improved Aprior Algorithm in Big Data Environment	89
<i>Zhou Bei</i>	
The application of BIM technology in the construction of three dimensional digital city	97
<i>Yan Xiao</i>	

Research on Wireless Monitoring Technology of Smart Car	104
<i>Zhang Lizhen, Chen Yulin, Zhang Sheng</i>	
File Transmission and Download System Based on P2P	109
<i>Liu Hongqing, Liu Yan</i>	
Digital Library Network Storage System	112
<i>Liu Hongqing, Liu Yan</i>	
Computer Sales and After-sales Service System -- Front Office Management Subsystem	116
<i>Liu Hongqing, Liu Yan</i>	
Design and Implementation of Monitoring System Voice Prompt Alarm Part	120
<i>Liu Hongqing, Liu Yan</i>	
Research on Personalized Blog Customization System Based on AJAX	124
<i>Liu Hongqing, Liu Yan</i>	
Construction of Comprehensive Evaluation System of Material Dynamic Support Based on Multimodal Transport	128
<i>Peng Ni</i>	
Geographic Information System Oriented GIS Automatic Surveying and Mapping Technology	133
<i>Yang Qianqian, Qin Hui, Chen Tianwei</i>	
Analysis of synchronization on time scale	137
<i>Qingshui Liao</i>	
Signal Acquisition and Measurement System in Microwave Measuring Line Based on Compressed Displacement Sensor	142
<i>Qin Fu</i>	
A New Generation of Information Resource Directory System Based on Block Chain Technology	148
<i>Hongzhuo Li, Shaofu Lin</i>	
Gamma Value Adjustment of 3D Software Maya during Optical Dynamic Capture Action Production	152
<i>Xianwei Zhang</i>	

Design of LAN Security Analysis System Based on B/S Architecture	156
<i>Wenzhi Zhu</i>	
Matlab-Based Studying of 4G Digital Modulation Techniques over Various Channels	160
<i>Yihuai Yang</i>	
Cross-correlation Network Analysis Work in Stock Market	166
<i>Wang Penghao</i>	
The Research on Interaction Design of App Based on User Experience—Take Design Program Practice of Time Bank App as an Example	171
<i>Chang Fangyuan</i>	
Optic Cable Tracking and Positioning Method Based on Distributed Optical Fiber Vibration Sensing	176
<i>Zhang Chao, Guo Min</i>	
Improvement Measures of 3D Face Recognition Algorithm Based on Features of Facial Contour Curve	181
<i>Zhao Weizheng, Tang Weiwei</i>	
Mobility Analysis of Chinese Stock Market Filtered Network	187
<i>Wang Penghao</i>	
Application of Computer Network Information Resources in Physical Education	192
<i>Sun Bin, Zong Yan, Zhao Zhiming</i>	
Spatial-frequency Image Denoising for Face Recognition	196
<i>Jianlin Chen, Gaoyong Luo, Fasheng Zhou, Haitao Cao</i>	
A Design of PH3 Monitoring System Based on NB-IoT	203
<i>Zhu Tianpei, Zang Chunhua, Jin Yucheng, Shi Xiang</i>	
Research on License Plate Recognition Technology in ETC System	208
<i>Wang Yi</i>	
The Pattern Recognition Application Research in Image Processing	214
<i>Ruijuan Du, Shilin Cui</i>	
Research on Data Mining Algorithm Based on Micro-blog of Multi-view Clustering Model	220
<i>Zhou Bei</i>	

Machine Learning Research in Big Data Environment	227
<i>Shi Jiang</i>	
Research on Key Technologies of New Energy Grid-Connected Power Generation System	232
<i>Yuanyuan Liu, Anping Bao</i>	
Design of an Infusion Rate Control System Based on Single Chip Microcomputer	238
<i>Qinzhu Wang</i>	
Implementation of Personal Information Security Protection Technology Based on Block Chain	243
<i>Xu Wei, Leng Jing</i>	
Excavation Balance Routing Algorithm Simulation Based on Fuzzy Ant Colony	247
<i>Luo Xiaojuan, Yan Li</i>	
The Application of Computer Software Development Technology in Medical Institutions	252
<i>Hanbing Chu</i>	
Research on Key Problems of Multi-objective Evolution Algorithm Based on Cloud Model and Chaotic Particle Swarm	255
<i>Yang Li, Liping Wang</i>	
Study on a Conceptual Mobile Memory of Interface Designation	260
<i>Yanxin Xie, Yanpeng Li, Bo Song, and Chunyu Jiang</i>	
Application Analysis of Data Encryption Technology in Computer Network Communication Security	265
<i>Xianjing Zhang</i>	
The Design of College Student Growth Management System Based on Data Mining	268
<i>Jiaqi Yuan, Shi Cheng, Jian Lu</i>	
Personal Music Emotion Analysis Based on BP Neural Model	273
<i>Wen Yaxin</i>	
Analysis on the Application of Data Mining in Science and Technology Information Management	279
<i>Li Du, Yue Zhang, and Qian Sun</i>	

An Analysis of Data Mining and Application in the Era of Big Data	284
<i>Yue Zhang, Li Du</i>	
Research on Detection Method of Abnormal Behavior of People in Video Surveillance	289
<i>Bo Zhai</i>	
Research on Structure Learning Theory and Algorithm Based on Probabilistic Graphical Model	294
<i>Li Feng</i>	
PID Control of Chocolate 3D Printer Heating System	298
<i>Long Zhuoqun, Yang Jiazhe</i>	
Artistic Analysis of Video Game Design Based on VR/AR Technology	302
<i>Zhu Lan</i>	
Modeling and Simulation of Dynamic Reliability of Heating Pipe Network	306
<i>Kuang Heng</i>	
Construction of Education Management Information System Based on Cloud Computing	311
<i>Zhao Lijun</i>	
Optimization of Education Management System Based on Web	316
<i>Tan Jing</i>	
The Convergence and Optimization Performance of the Simplified Artificial Fish School Algorithm	322
<i>Fuqing Zhao, Guoqiang Yang, , Yi Zhang, Weimin Ma, Chuck Zhang, Houbin Song</i>	
Analysis of Computer Communication Network and Security Technology Architecture	334
<i>Guangnan Liu</i>	
Analysis of Multi-sensor Image Fusion	338
<i>Yan Xu</i>	
Application of Electronic Load in Power Supply Test	342
<i>Hu Wenting</i>	

The Application of Artificial Intelligence Technology in Network Technology	347
<i>Yanqing Liu</i>	
Research on the Design of Agricultural Transportation System Based on Smart City Internet of Things	352
<i>Na Liao</i>	
Applications of Swarm Intelligent Algorithm in Economic Model	357
<i>Shi Yaping</i>	
Design of Cloud Intelligence Logistics Management System Based on Big Data	361
<i>Lijuan Ma, Lina Gao</i>	
Research on the Cloud Platform Development of Visual Communication under the Internet+ Model	365
<i>Guannan Chen</i>	
Research on Computer Network Security and Its Countermeasures	370
<i>Li Jian</i>	
Intelligent Customer Service System Design Based on Natural Language Processing	374
<i>Wang Yijing</i>	
Research on Machine Learning Feature Algorithm	380
<i>Jing Liu, Ai Yang, Wenbo Jiang</i>	
Design and Implementation of Automatic Control System for Sewage Treatment	384
<i>Sun Lin</i>	
Application of Computer Information Technology in Construction Management	388
<i>Xinyue Liu</i>	
Interior Design Research of Spatial Order based on 3DS Studio Max	393
<i>Mingming Xu, Minmin Guo</i>	
Design and Research of One-to-Many Multi-attribute Negotiation Support System Based on User Acceptance Behavior Model	396
<i>Xinfu Lv</i>	
Analysis of Information Security Protection Strategy for Network Electronic Engineering Archives	400
<i>Chu Xue</i>	

Analysis and Application of Embedded Real-time Network Communication Technology	404
<i>Hu Jirong</i>	
Uncertainty in Simultaneous Determination of Cr, Ni, As and Pb in Hot-melt Adhesives for Cigarette by Inductively Coupled Plasma Mass Spectrometry	408
<i>He Aimin</i>	
UML-based Radar Software Design	414
<i>Feng Juntao</i>	
Research on Disaster Recovery and Application of College Data Center	418
<i>Weihua Pu, Xiangyan Fu</i>	
Intelligent Pet Station Based on Internet of things	422
<i>Ji Yu</i>	
Research on Computer Information Processing Technology in Mass Data Era	427
<i>Zhang Zhiqiang</i>	
Application Technology and Development Trend of Construction Machinery Automation	431
<i>Wenxia Zhu</i>	
Research on Application Value of Data Encryption Technology in Computer Network Security	436
<i>Xiaoli Meng</i>	
Application of Internet of Things Technology in Smart City Building	440
<i>Xia Wei</i>	
Analysis on the Compression Technique of Adaptive Lifting Wavelet Transform Image	444
<i>Yun Gan</i>	
Study on the Optimization Model of Bus Transit Site Distribution between Metro and Bus Connection	448
<i>Chen Ningning</i>	
Overview of Wireless Sensor Network Security Technology	454
<i>Zili Zeng</i>	

Application of Data Mining Technology in Network Marketing	458
<i>Li Kaimin</i>	
Study on Water Quality Monitoring of Daihai Lake Based on Remote Sensing Technology	462
<i>Xiuqing Wu, Changbao Yang, Yaowen Chang, Qian Duan</i>	
Research on Animation and Motion Capture Technology	468
<i>Xianwei Zhang, Yang Liu</i>	
Analysis of Students' Learning Behavior Based on Association Rule Mining Algorithm in Moodle Network Platform	472
<i>Shaozhen Huang</i>	
Research on the Application of Accounting Information System Intelligence on Business Enterprises	476
<i>Huimin Li</i>	
Vehicle Feature Extraction and Vehicle Classification Recognition	479
<i>Wang Yi, Zhu Rui</i>	
Application Development of Virtual Reality Based on Smart Phone and VR Glasses	485
<i>Cao Yanzhen</i>	
Research on Evacuation Simulation of Large-scale Stadium Staff	491
<i>Juhai Wang</i>	
Design and Implementation of Smart Home Voice Control System based on Arduino	495
<i>Min Liu</i>	
Research of Flexible Visual Experiment Platform for Communication Principle Teaching	499
<i>Yihuai Yang</i>	
Application Research of Residue Theorem in Integral Calculation	505
<i>Haijian Cui, Wenyao Xiong</i>	
Research on Intelligent Information Processing Based on Neural Network	509
<i>Cuihong Zhai</i>	
Research on Surveying and Mapping Technologies of UAV Laser	513
<i>Zhizhang Wan, Ping Gan</i>	

Research on Network Security Precaution in Computer Application	518
<i>Li Ping</i>	
Research on Forecasting Model of Ink Printing and Packaging Material	522
<i>Jia Wang</i>	
Design of Collection Terminal for CAN Bus Agricultural Temperature Monitoring System Based on VB	526
<i>Huihui Tian, Xingda Zhang, Qian Liu</i>	
Study on the Design and Function of Score Management System of Student Physical Health Test	530
<i>Miao Zhong</i>	
Research on Locomotive Energy-saving Control System	534
<i>Xiangcai Wang</i>	
Design and Application of Electronic Information Engineering in Industrial Field	538
<i>Shaozhong Hu</i>	
Analysis of Reliability of Electric Automation Equipment	542
<i>Kai Xu</i>	
Design of Information System for Preventing and Controlling Environmental Pollution at County Level	546
<i>Zhao Kunrong, Wu Shuang, Xu Wenjun, Jia Ya</i>	