

# **2023 2nd International Conference on 3D Immersion, Interaction and Multi-sensory Experiences (ICDIIME 2023)**

**Madrid, Spain  
27 – 29 June 2023**



**IEEE Catalog Number: CFP23CV4-POD  
ISBN: 979-8-3503-2382-5**

**Copyright © 2023 by the Institute of Electrical and Electronics Engineers, Inc.  
All Rights Reserved**

*Copyright and Reprint Permissions:* Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***\*\*\* This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP23CV4-POD
ISBN (Print-On-Demand):	979-8-3503-2382-5
ISBN (Online):	979-8-3503-2381-8

**Additional Copies of This Publication Are Available From:**

Curran Associates, Inc  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: (845) 758-0400  
Fax: (845) 758-2633  
E-mail: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

CURRAN ASSOCIATES INC.  
**proceedings**  
.com

# 2023 2nd International Conference on 3D Immersion, Interaction and Multi-sensory Experiences (ICDIIME) **ICDIIME 2023**

## Table of Contents

Message from the General Chair ..... xv

### ICDIIME 2023

Design of Multi-Objective Optimal Control Algorithm for Automatic Driving of EMU Based on PSO ..... 1  
*Yongjun Pan (Wuhan Railway Vocational College of Technology, China) and Fan Chen (Wuhan Railway Vocational College of Technology, China)*

Research on Optimal Distribution System of Tour Group Routes Under Computer Big Data Technology ..... 6  
*Qi Zhou (Guangzhou Huashang Vocational Collage, China)*

Research on Optimization Design of RBF Neural Network Based on Ant Colony Algorithm ..... 11  
*Lixia Liu (Engineering University of PAP, China)*

Real-Time Measurement of Dynamic Pointing Error of Attitude Stabilization Platform Based on Photogrammetry ..... 16  
*Yong Li (Northwest Institute of Nuclear Technology, China), Xicheng Gou (Northwest Institute of Nuclear Technology, China), Shuo Wu (Northwest Institute of Nuclear Technology, China), Yongdong Zhang (Northwest Institute of Nuclear Technology, China), Wei Yan (Northwest Institute of Nuclear Technology, China), and Kai Guo (Northwest Institute of Nuclear Technology, China)*

Remote Sensing Image Processing of Ecological Environment Monitoring Based on Multi-Scale Retinex Algorithm ..... 21  
*Jiaxin Li (Southwest Forestry University, China) and Zhi Ou (Southwest Forestry University, China)*

Research Progress of Waterscape Based on CiteSpace and Information Visualization ..... 25  
*Xinya Lin (Fujian Agriculture and Forestry University, China), Han Xu (Fujian Agriculture and Forestry University, China), Xinyi Wang (Fujian Agriculture and Forestry University, China), and Jianwen Dong (Fujian Agriculture and Forestry University, China)*

Application of Image Acquisition and Processing System Based on Wavelet Transform in Mechanical Product Modeling Design .....	31
<i>Libo Wan (Chengdu Technological University, China), Danping Wang (Chengdu Technological University, China), Yanqin Jia (Chengdu Technological University, China), Xin Gao (Chengdu Technological University, China), Xiaolin Hu (Chengdu Technological University, China), and Cheng Liu (Chengdu Wuyu Industrial Design Co., Ltd, China)</i>	
Design and Implementation of Environmental Intelligent Monitoring System Based on NB-IoT and Cloud Platform Technology .....	36
<i>Xiaolei Zhong (Yunnan University Dianchi College, China)</i>	
Design of Target Detection Algorithm in Airport Flight Area Based on Fuzzy Clustering .....	41
<i>Qian Chen (COMAC Flight Test Center, China)</i>	
Research on the Intelligent Information Management System of Foreign Weapons and Equipment... 46	
<i>Fei Tan (Graduate School of RFUE, China), Gu Liu (Graduate School of RFUE, China), Chaoqun Ge (Graduate School of RFUE, China), Chen Xie (Xianyang Detachment of PAP, China), and Ping Wang (Xianyang Detachment of PAP, China)</i>	
Construction of Sports Training Evaluation System Based on Virtual Reality and Motion Capture .....	50
<i>Zhe Chen (Xi'an Eurasia University, China) and Yuanyuan Pan (Xi'an Eurasia University, China)</i>	
Research on Forest Landscape Based on Big Data and CiteSpace Visualization Analysis .....	55
<i>Xinya Lin (Fujian Agriculture and Forestry University, China), Han Xu (Fujian Agriculture and Forestry University, China), and Jianwen Dong (Fujian Agriculture and Forestry University, China)</i>	
Defogging of Monitoring Images of Soil and Water Conservation of Consumer UAV Based on Image Enhancement .....	62
<i>Jinru Hu (Jiaokeyuan Science and Technology Group Co., Ltd.; China Academy of Transportation Sciences, China) and Xiaofeng Zhang (Jiaokeyuan Science and Technology Group Co., Ltd.; China Academy of Transportation Sciences, China)</i>	
Application Research of Quantum Cryptography Communication Technology .....	67
<i>Xiaowei Cheng (State Grid Gansu Electric Power Information and Communication Company, China), Dou Liu (State Grid Gansu Electric Power Information and Communication Company, China), Feng Huang (Great Power Science and Technology Co., Ltd., State Grid Info-Telecommunication Group, China), and Wenhao Zhan (State Grid Gansu Electric Power Information and Communication Company, China)</i>	
Simulation Research on Motion Trajectory Control of Industrial Robot Based on Deep Learning Algorithm .....	72
<i>Jiawei Li (Monash University Malaysia, Malaysia)</i>	
Research on Force Atlas Dynamic Network Algorithm for Intelligent Speech Recognition Based on Machine Computers .....	76
<i>Mengze Cai (Capital University of Economics and Business, China), Wangyue Li (Southwestern University of Finance and Economics, China), and Renjie Dang (Southwestern University of Finance and Economics, China)</i>	

Construction of Sampling System for Electric Power Materials Based on Convolution Neural Network Algorithm and Visual Recognition .....	81
<i>Jun Zhao (State Grid Hebei Electric Power Co., Ltd. Materials Branch, China), Kefeng Li (State Grid Hebei Electric Power Co., Ltd. Materials Branch, China), Jun Zhang (Guodian Nanrui Nanjing Control System Co., Ltd, China), Feng Hao (State Grid Hebei Electric Power Co., Ltd. Materials Branch, China), Zengchao Wang (State Grid Hebei Electric Power Co., Ltd. Materials Branch, China), and Chuanyi Liu (State Grid Hebei Electric Power Co., Ltd. Materials Branch, China)</i>	
Research and Application Based on EEMD and GAN Algorithm .....	86
<i>Dingyi Jia (Sichuan University, China) and Hao Yang (Sichuan University, China)</i>	
Optimization Algorithm Design of 3D Animation Rendering Based on Virtual Reality .....	92
<i>Xing Wu (Zhejiang Vocational Academy of Art, China) and Xiao Yuan (Information Engineering College of Sichuan Tourism University, China)</i>	
Research on a Mathematical Modeling Algorithm Based on OLS-STEAM Framework .....	97
<i>Xinhao Zhou (Suzhou University of Science and Technology, China), Siqing Li (The University of Hong Kong, China), and Weicong Liu (The University of Nottingham Ningbo China, China)</i>	
Research on Artificial Intelligence Art Image Synthesis Algorithm Based on Generation Model .....	102
<i>Mengze Yi (Hubei University of Technology, China)</i>	
Research on Multi-Algorithm Fusion Based on AHP-GCA-MPC Power Division Optimization .....	107
<i>Shulin Liu (Beijing Jiaotong University, China), Zihan Jin (Beijing Jiaotong University, China), and Zhenyu Quan (Beijing Jiaotong University, China)</i>	
Design of Image Recognition and Generation Algorithm Based on Artificial Neural Network .....	115
<i>Xiao Yuan (Chongqing College of Architecture and Technology, China)</i>	
Research on a Predictive Model Based on Machine Learning DART-XGBOOST Integration .....	120
<i>Yiding Huang (University College Dublin, Ireland), Xiaowen Xu (Anqing Normal University, China), and Xuan Wan (Capital Normal University, China)</i>	
Design and Implementation of Intelligent Furniture Control System Based on Improved Particle Swarm Optimization .....	126
<i>Xiaoyan Yuan (Lanzhou Resources&amp;Environment Voc-Tech University, China)</i>	
Research on Node Classification Algorithm Based on Deep Network Representation Learning Under Incomplete Information .....	131
<i>Jiachui Jing (Tianjin University of Technology, China)</i>	
Application of Virtual Reality Technology Based on Fast Filtering Algorithm in Switching Operation of Substation .....	136
<i>Haoyi Zhu (State Grid Panjin Electric Power Supply Company, China), Shi Qiao (State Grid Panjin Electric Power Supply Company, China), Yi Lu (State Grid Panjin Electric Power Supply Company, China), and Xiaolin Zhao (State Grid Panjin Electric Power Supply Company, China)</i>	
Research on Hybrid Attribute Big Data Clustering Algorithm Based on Grid Coupling .....	141
<i>Jin Wang (Tianjin University of Technology, China)</i>	

Automatic Loading and Unloading Control System of Cable Materials Based on Artificial Immune Algorithm Remote Sensing Image Recognition Technology .....	146
<i>Yuqi Zhao (State Grid Hebei Electric Power Co., Ltd., China), Zengchao Wang (State Grid Hebei Electric Power Co., Ltd., China), Chuanyi Liu (Guodian Nanrui Nanjing Control System Co., Ltd, China), Kefeng Li (State Grid Hebei Electric Power Co., Ltd., China), Zihan Li (State Grid Hebei Electric Power Co., Ltd., China), and Dongliang Wang (Guodian Nanrui Nanjing Control System Co., Ltd, China)</i>	
Computer Aided Design of Tunnel Based on Lonberg Algorithm and Intelligent Optimization .....	150
<i>Shaokun Fu (China University of Geosciences, China), Qi Gao (China University of Geosciences, China), and Xuan Liao (China University of Geosciences, China)</i>	
Research on a Prediction Model and Importance Algorithm Based on KPCA LightGBM Machine Learning .....	157
<i>Kedi Wu (Gansu Agricultural University, China), Jiajian Xie (South China University of Technology, China), and Haobo Ma (Dalian University, China)</i>	
Design and Optimization of Visual Tracking Algorithm Based on Deep Learning .....	165
<i>Zihao Han (Cardiff University, UK)</i>	
Research on Cloud Virtual Machine Scheduling Strategies and Algorithm Optimization .....	170
<i>Mingchuan Zhao (Tianjin University of Technology, China)</i>	
Application of Gesture Recognition Technology Based on Deep Learning in Intelligent Laboratory .....	182
<i>Gang Li (Guangzhou Donghua Vocational College, China) and Zhongyin Zhao (Guangzhou Donghua Vocational College, China)</i>	
Research on Rail Surface Crack Identification and Detection Based on Deep Learning and Image Processing .....	187
<i>Wang Yu (Southwest Jiaotong University; Guangdong Institute of Mechanical and Electrical Technology, China), Miaobing Rong (Southwest Jiaotong University, China), Daihu Min (Guangdong Institute of Mechanical and Electrical Technology, China), Zhang Ying (Southwest Jiaotong University, China), and Zhaoyi Guang (Southwest Jiaotong University, China)</i>	
Simulation of Computer Image Processing Model Based on Random Forest Algorithm .....	191
<i>Haotian Liu (University of Edinburgh, UK)</i>	
Research on PCA-Kmeans++ Clustering Algorithm Considering Spatiotemporal Dimension .....	195
<i>Jiale Huang (Hohai University, China), Jingtong Dai (Hohai University, China), and Yanjin Li (Hohai University, China)</i>	
Image Processing of Agricultural Product Packaging Based on Intelligent Optimization Algorithm .....	202
<i>Xiaoli Liu (Wuxi Vocational Institute of Arts &amp; Technology, China)</i>	
Research on Application of 3d Information Model in Oilfield Development .....	207
<i>Tianxiao Ren (China Liaohe Petroleum Engineering Co., Ltd., China), Junwei Bi (Petro China Liaohe Oilfield Company, China), Bohao Wang (Petro China Liaohe Oilfield Company, China), and Hui Xu (Petro China Liaohe Oilfield Company, China)</i>	
Design of Multi-Modal Yoga Gesture Detection Based on Gaussian Mixture Model .....	211
<i>Ling Ma (Wenhua College, China) and Zhaorwei Yu (Wenhua College, China)</i>	

Architecture of Intelligent Interactive System Based on Artificial Intelligence .....	215
<i>Hanxu Li (Tianjin University of Technology, China)</i>	
Research on Teaching of Visual Communication Design Based on Automatic Layout Algorithm of Graphic Language .....	220
<i>Weiyang Meng (Minjiang College, China)</i>	
Application of Object Detection in Autonomous Driving .....	224
<i>Jun Liu (The Ohio state university, U.S.)</i>	
3D Landscape Rendering and Optimization Algorithm of Digital City Based on Convolutional Neural Network .....	229
<i>Di Peng (Wuhan Huaxia Institute of Technology, China)</i>	
Research on Virtual Simulation Design System of Han Embroidery Crafts Under Computer Digital Image Vision Technology .....	234
<i>Ye Hong (Wuhan Business University, China) and Lei Xiao (Wuhan Business University, China)</i>	
Fast Detection Algorithm of Tunnel Surface Cracks Based on Image Processing .....	239
<i>Weilin Xiong (China Merchants Chongqing Highway Engineering Testing Center Co., Ltd, China) and Yang Wang (China Merchants Chongqing Highway Engineering Testing Center Co., Ltd, China)</i>	
Design of Data Information Processing System Based on Genetic Algorithm and BIM .....	244
<i>Juan Pan (Chongqing College of Architecture and Technology, China)</i>	
Research and Implementation of Human-Computer Interaction System Based on Human Body Attitude Recognition Algorithm .....	249
<i>Yana You (SiChuan University Jinjiang College, China) and Xuefeng Yi (China Academy of Engineering Physics, China)</i>	
Application of Genetic Algorithm in the Design of Safety Monitoring System .....	253
<i>Zhanfeng Chen (Chongqing Metropolitan College of Science and Technology, China) and Juan Xiang (Chongqing Metropolitan College of Science and Technology, China)</i>	
Autonomous Robot Motion Decision Algorithm Based on Decision Tree Algorithm and Deep Learning Technology .....	259
<i>Xun Li (Fujian Normal University, China)</i>	
Design of Students Information Management System Based on Mining Clustering Algorithm .....	263
<i>Jing Tian (Shandong Institute of Commerce and Technology, China)</i>	
Construction of Traffic Moving Object Detection System Based on Improved YOLOv5 Algorithm .	268
<i>Quanbao Lin (Harbin Engineering University Southampton Ocean Engineering Joint Institute at HEU, China), Shibo Zhang (Harbin Engineering University Southampton Ocean Engineering Joint Institute at HEU, China), and Shuo Xu (Harbin Engineering University Southampton Ocean Engineering Joint Institute at HEU, China)</i>	
Design and Implementation of Neurology Medical Data Analysis System .....	273
<i>Lei Lei (Wuhan City College, China)</i>	
Billiards Detection and Tracking Technology Based on Artificial Intelligence Algorithm .....	278
<i>Hengyan Pan (Shanghai maritime university, China)</i>	

Artificial Intelligence Image Detection System Based on Internet of Things .....	283
<i>Guangcai Liu (North Automatic Control Technology Institute, China), Wenbin Zhang (North Automatic Control Technology Institute, China), Li Sun (North Automatic Control Technology Institute, China), Xianya Chen (North Automatic Control Technology Institute, China), Liqin Wu (North Automatic Control Technology Institute, China), Zhongjie Lin (North Automatic Control Technology Institute, China), and Liang Hao (North Automatic Control Technology Institute, China)</i>	
Research on Computer Vision Target Detection Algorithm Based on Deep Neural Network Model .....	287
<i>Runze Zhang (City University of Macau, China)</i>	
Luminaire Sensitivity Adjustment Design Based on Improved Artificial Fish Swarm Algorithm (IAFSA) .....	292
<i>Muhan Huang (Silpakorn University, Thailand)</i>	
Design of Path Planning Algorithm for Tourist Attractions Based on Deep Learning .....	297
<i>Wei Tong (Jiangsu Vocational College Tourism, China) and Yanchun Ruan (Jiangsu Vocational College Tourism, China)</i>	
Nondestructive Testing Method of Engineering Material Defects Based on Artificial Intelligence Algorithm .....	302
<i>Baoying Zhu (Jilin Agricultural Science and Technology University, China)</i>	
Design of Dance Movement Recognition Algorithm Based on 3D Motion Capture Data .....	308
<i>Linlin Du (Weifang Engineering Vocational Collage, China)</i>	
Research on Financial Risk Control Model Based on Machine Learning .....	313
<i>Zhengyan Wang (Paris-Saclay University, France) and Yisong Zhao (Sorbonne University, France)</i>	
Research on Computer Vision Target Detection Algorithm Based on Feature Recognition .....	317
<i>Jiaju Huang (City University of Macau, China)</i>	
Research on Bank Credit Risk Assessment Based on BP Neural Network .....	322
<i>Qinghua Li (Shanghai Donghai Vocational&amp;Technical College, China)</i>	
Optimal Design of Video Player Tracking Algorithm in Basketball Game Based on Support Vector Machine .....	327
<i>Ying Liang (Jiangsu University, China)</i>	
Defect Detection Method Based on Improved YOLOv5s Model .....	331
<i>Shanshan Li (Lanzhou Jiaotong University, China), Jianjun Meng (Lanzhou Jiaotong University; Gansu Logistics and Transportation Equipment Information Technology Research Center; Gansu Logistics and Transportation Equipment Industry Technology Center, China), Defang Lv (Lanzhou Jiaotong University, China), Xiaoqiang Chen (Lanzhou Jiaotong University; Gansu Logistics and Transportation Equipment Information Technology Research Center; Gansu Logistics and Transportation Equipment Industry Technology Center, China), and Jing Liu (Lanzhou Jiaotong University, China)</i>	
Optimal Design of Sports Video Target Tracking Algorithm Based on Feature Correlation Matching .....	337
<i>Kun Luo (Jiangxi Institute of Applied Science and Technology, China)</i>	



Study on Data Security of Computerization Under Centralized Accounting Mode .....	342
<i>Jingyi Cai (Wuhan Polytechnic, China)</i>	
Mathematical Modeling and Simulation Analysis Based on Artificial Intelligence Algorithm .....	347
<i>Yang Meng (Dalian University of Technology, China)</i>	
A SBM-DDF-GML Algorithm for GTFP of Smart City Agglomeration Based on Matlab .....	352
<i>Yi Tang (Guangdong University of Science and Technology, China), Zhiye Yu (Guangdong University of Science and Technology, China), and Jie Zhao (Guangdong University of Science and Technology, China)</i>	
Application of Unmanned Aerial Vehicle Image Denoising Based on FPGA in Unmanned Aerial Vehicle Tilt Photography Assisted Intelligent Construction Site Management .....	357
<i>Yufang Wang (Xiamen Institute of Technology, China)</i>	
An Interactive Hybridization Algorithm for Optimization of Interior Layout Design .....	362
<i>Chunhu Shi (Guangdong University of Science and Technology, China)</i>	
Construction of Urban Planning Model Based on Remote Sensing Image Data Processing Algorithm .....	367
<i>Wei Xian (Southwest Jiaotong University, China)</i>	
Design and Development of Optical Fiber Communication Technology in Network Remote Control System .....	372
<i>Ling Jiang (Wuhan Maritime Communication Research Institute, China), Hui Yin (Wuhan Maritime Communication Research Institute, China), Yunhai Fu (Wuhan Maritime Communication Research Institute, China), and Yuqiong Han (China Mobile Group Hubei Company Limited, China)</i>	
Research on Image Multi-Feature Steganography Based on Deep Learning .....	379
<i>Rui Fan (Yunnan University, China), Tingchu Wei (Yunnan University, China), Yongming Wen (Yunnan University, China), and Chao Yi (Yunnan University, China)</i>	
Basketball Training System Based on 3D Motion Intelligent Recognition Technology .....	384
<i>Haili Meng (Chongqing Vocational Institute of Engineering, China)</i>	
Transformer Fault Detection Algorithm Based on Computer Vision and Deep Learning Technology .....	389
<i>Zhengyi Wang (China Aviation Planning and Design Institute (Group) CO., LTD, China)</i>	
Research on Medical Big Data Mining and Intelligent Analysis for Smart Healthcare .....	394
<i>Fengju Bu (Shandong Agriculture and Engineering University, China), Mei Wang (Shandong Agriculture and Engineering University, China), and Tian Liang (Shandong Agriculture and Engineering University, China)</i>	
Autonomous Role Design of Game Based on Neural Network Algorithm and Artificial Intelligence .....	400
<i>Yanchen Zhou (The University of Queensland, Australia)</i>	
Research on Computer Network Information Security Protection System Based on Artificial Intelligence .....	405
<i>Jian Bao (State Grid Xinjiang Information &amp; Telecommunication Company, China), Kai Yun (State Grid Xinjiang Information &amp; Telecommunication Company, China), Haosheng Li (State Grid Xinjiang Information &amp; Telecommunication Company, China), Qingwang Zhang (State Grid Xinjiang Information &amp; Telecommunication Company, China), and Hao Yang (State Grid Xinjiang Information &amp; Telecommunication Company, China)</i>	

Research on Bridge Condition Monitoring Based on Image Processing Technology and Bridge Crack Detection Algorithm .....	412
<i>Hongxi Yu (Shandong Transport Vocational College, China)</i>	
Research on Cloud Platform Computing Security and Integrity Protection System Based on Machine Learning .....	417
<i>Kai Li (State Grid Xinjiang Information and Telecommunication Company, China), Yanjun Wang (State Grid Xinjiang Information and Telecommunication Company, China), Qiaoli Wang (State Grid Xinjiang Information and Telecommunication Company, China), Zhiwei Xiang (State Grid Xinjiang Information and Telecommunication Company, China), and Xiaojun Bai (State Grid Xinjiang Information and Telecommunication Company, China)</i>	
Design of Intelligent Path-Finding Algorithm for Sweeping Robot Based on BP Neural Network Model .....	425
<i>Yuelan Liu (Nanning University, China), Feijun Huang (Nanning University, China), and Tingmei Xiang (Nanning University, China)</i>	
A Method of Manipulator Trajectory Control Based on Coordinate System .....	430
<i>Xiaozhu Tian (Wuhan Railway Vocational College of Technology, China)</i>	
Research on Visualization of Building Information Model Based on Parametric Intelligent Technology .....	435
<i>Yuan Lu (East University of Heilongjiang, China), Di Meng (East University of Heilongjiang, China), and Yuanfang Liu (East University of Heilongjiang, China)</i>	
Design and Implementation of Internet Innovation and Entrepreneurship Information Service System Based on Data Mining .....	440
<i>Lei Fan (Chengdu Neusoft University, China)</i>	
Research on Coastline Detection Method of SAR Image Based on Seed Point Growth .....	444
<i>Guanyu Yue (Jiangsu University of Science and Technology; State Grid Jurong County Electric Power Supply Company, China), Xueyun Wei (Jiangsu University of Science and Technology, China), and Xudong Liu (State Grid Jurong County Electric Power Supply Company, China)</i>	
Study on Limit Equilibrium Stability Analysis Method of Rock and Soil Slope Based on Improved Genetic Algorithm .....	448
<i>Juan Xiang (Chongqing Metropolitan College of Science and Technology, China) and Zhanfeng Chen (Chongqing Metropolitan College of Science and Technology, China)</i>	
Construction of Virtual Simulation Training Platform for Enterprise Operation Based on Workflow .....	453
<i>Meisheng Ke (Wuhan Business University, China)</i>	
Simulation of Multi-Band Anti-Noise Broadcast Host Speech Recognition Method Based on Multi-Core Learning .....	457
<i>Haixing Xia (Sichuan University Jinjiang College, China), Zicong Wang (China Telecom Global Limited, China), and Zhen Li (Sichuan University Jinjiang College, China)</i>	

Optimization Design of Garden Landscape Space Environment Based on Remote Image Acknowledge .....	462
<i>Yurong Dai (Heilongjiang Agricultural Engineering Vocational College, China), Shuhong Wei (Heilongjiang Agricultural Engineering Vocational College, China), Zhipeng Song (Heilongjiang Agricultural Engineering Vocational College, China), and Yue Lv (Altay vocational and Technical College, China)</i>	
Modeling and Control of Particle Motion Based on SVM Algorithm .....	467
<i>Minming Xu (Hechi University, China) and Yun Ouyang (Hechi University, China)</i>	
Research on Teaching Mode of Experiential Learning Environment Based on VR Virtual Simulation Technology .....	471
<i>Xiaoxia Dai (Shandong Drug and food Vocational College, China), Chaogui Zhou (Shandong Drug and food Vocational College, China), and Qiang Li (Shandong food and drug evaluation and inspection center, China)</i>	
Research on Foreground Extraction and Target Detection and Tracking Algorithm of Surveillance Video Based on Deep Learning .....	477
<i>Peilei Ye (Guangdong Baiyun University, China)</i>	
Construction of Image Segmentation and Recognition System Based on Deep Neural Network Algorithm .....	481
<i>Zihan Wang (Weifang Engineering Vocational College, China) and Lili Duan (Weifang Engineering Vocational College, China)</i>	
Design of Intelligent Education Management Platform Based on Fuzzy Control Algorithm .....	486
<i>Bin Zhang (Jiangxi university of Applied Science, China)</i>	
Construction of Virtual Simulation System for Interior Design Based on Augmented Reality .....	490
<i>Peng Xu (Hubei University of Technology, China)</i>	
Simulation Research on Thermal Effect of Urban Subway Spatial Layout Based on Machine Learning Algorithm .....	495
<i>Shuling Hu (Dalian campus of Lu Xun Academy of fine arts, China) and Shuhan Hu (Dalian campus of Lu Xun Academy of fine arts, China)</i>	
Design of a Group Animation Production System Based on Artificial Intelligence Algorithms .....	500
<i>Yaxin Hou (Hubei University of Technology, China)</i>	
Intelligent Hybrid System of Collective Architectural Design Based on Genetic Algorithm .....	504
<i>Liya Mai (Tongji University, China), Chang Liu (Tongji University, China), Siguang Huo (Tongji University, China), Yongkang Chen (Tongji University, China), and Jianfeng Xiao (Wuhan University of Technology, China)</i>	

Research on Image Defogging Enhancement Technology Based on Retinex Algorithm .....	509
<i>Lei Lei (Electric Power Research Institute of State Grid Shaanxi Electric Power Co., Ltd; State Grid (Xi'an) Environmental Protection Technology Center Co., Ltd, China), Liang Wang (Electric Power Research Institute of State Grid Shaanxi Electric Power Co., Ltd; State Grid (Xi'an) Environmental Protection Technology Center Co., Ltd, China), Jian Wu (State Grid Shaanxi Electric Power Co., Ltd, China), Xiaochun Bai (Electric Power Research Institute of State Grid Shaanxi Electric Power Co., Ltd; State Grid (Xi'an) Environmental Protection Technology Center Co., Ltd, China), Pinghai Lv (Electric Power Research Institute of State Grid Shaanxi Electric Power Co., Ltd; State Grid (Xi'an) Environmental Protection Technology Center Co., Ltd, China), and Miao Wei (State Grid Shaanxi Electric Power Co., Ltd, China)</i>	
Research on Public Management Statistical Data Quality Management Based on Fuzzy Clustering Algorithm .....	514
<i>Mingshi Li (Jiangxi Institute of Applied Science and Technolog, China) and Xiaoming Zhu (Jiangxi Institute of Applied Science and Technolog, China)</i>	
Design of Medical Spectral Image Segmentation Algorithm Based on Artificial Neural Network....	519
<i>Liming Fang (Wannan Medical College Medical Physics and Mathematics Teaching and Research Section, China), Huimin Jiang (Wannan Medical College Medical Physics and Mathematics Teaching and Research Section, China), Can Shi (Wannan Medical College Medical Physics and Mathematics Teaching and Research Section, China), Jun Lu (Wannan Medical College Medical Physics and Mathematics Teaching and Research Section, China), and Jimin Chu (Wannan Medical College Medical Physics and Mathematics Teaching and Research Section, China)</i>	
Research on Landscape Image Processing Based on Neural Network Algorithm .....	523
<i>Jingxu Wang (Hubei Three Gorges Polytechnic, China)</i>	
<b>Author Index .....</b>	<b>527</b>