2021 IEEE 4th Advanced Information Management, Communicates, Electronic and Automation Control Conference (IMCEC 2021)

Chongqing, China
18-20 June 2021

Pages 1-726

IEEE Catalog Number: CFP21E32-POD
ISBN: 978-1-7281-9152-2

Copyright © 2021 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:	CFP21E32-POD
ISBN (Print-On-Demand):	978-1-7281-9152-2
ISBN (Online):	978-1-7281-8535-4
ISSN:	2693-2814

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
Web: www.proceedings.com

Table of Contents

20200864	A Novel Genetic Algorithm- XGBoost Based Intrusion Detection Method *Yingying Sun, Chunhe Song, Shimao Yu, Hao Pan, Tong Li, Yang Liu*	***1***
20201095	A KNN-based classification algorithm for growth stages of Haematococcus pluvialis *Yongliang Wang,Zichuan Chen, Hongyang Shao, Ning Wang*	***6***
20201131	Research on Method of Identifying Poor Families Based on Machine Learning *Tongping Shen, Zhonghua Zhan , Li Jin, Fangliang Huang, Huanqing Xu*	***10***
20201149	Intelligence information analysis based on computer vision *Fuyao Zhang, Anchao Cheng*	***14***
20201155	Improvement of Short-circuit Calculation for distribution network with distributed generation *Saimei Shi,Zhao Huang,Yiwen Zhang*	***21***
20201181	An Improved Global State Fusion Filter for Track Estimation *Xia Keqiang,Xing Meng, Fu Na,Wei Jun, Li Jixin, Yang Yongan, Li Ganhua*	***25***
20210021	Research on Location and Capacity of Distribution Generation Considering Plug-in Electric Vehicle *Xiaomeng Wu,Rongze Yuan*	***29***
20210040	Investigating the stability benefits of the ARCMESH HVDC-VSC interconnection *Haijuan Lan, Simon Bartlett*	***33***
20210060	Research on Adaptive Reclosing of Distribution Network based on Signal Injection *Xiaomeng Wu,Tao Zhang*	***38***
20210082	The Impact of Harmonic Generated by Distributed Photovoltaic Grid-connected Power Generation System *Xiaomeng Wu, Zexuan Li*	***43***
20210084	Study on the propagation characteristics of the electromagnetic wave across water film on the surface of the towed antenna *Shiyu Wang, Lihua Li, Tianhui Fu, Shimin Feng,Yongbin Wang*	***47***
20210089	Generate Personalized Explanations for Recommendation based on Keywords *Wei Song,Chenglong Wang,Keqing Ning*	***51***
20210090	Threat Assessment of Cognitive Electronic Warfare to Communication based on Self-organizing Competitive Neural Network *Haiyan Lv, Wei Song*	***58***

20210093	Sentiment Analysis of Ecommerce Product Review Data Based on Deep Learning *Li Rong, Zhou Weibai, Huang Debo*	***65***
20210095	Research on Secure Access Technology of Electric Power Wireless Private Network Based on Hybrid Encryption *Rui Liu, Yuanbing Zheng, Yun Yang, Yujian Chao, Yang Li, Yuhang Yan*	***69***
20210097	Greenhouse data monitoring system *Yin qun, Zhang jianbo*	***75***
20210098	Smart home system based on wechat applet *Zhang jianbo ,Yin qun,Xi xiaochen*	***81***
20210099	Leaf Segmentation Algorithm Based on Improved U-shaped Network under Complex Background *Junling Kan, Zongyun Gu, Chun Ma, Qing Wang*	***87***
20210100	Integer-Decomposing Topological Authentication Problem For Post-Quantum Cryptosystem *Bing YAO, Wanjia ZHANG, Hongyu WANG, Jing SU*	***93***
20210101	Study on Time Delay Model of Deep Space Interferometry *Tianyi Chai, Hong Ma,Yiwen Jiao,Weitao Lu*	***99***
20210103	Research on a Nanosecond Standard Time Remote Reproduction Method *Ruiqiong Chen,Ya Liu,Xiaohui Li*	***107***
20210104	Research on Key Technology of Industrial Network Boundary Protection based on Endogenous Security *Fei Yu, Qiang Wei, Yangyang Geng, Yunchao Wang*	***112***
20210105	Modeling and Parameter Design of MarineMicro-grid Virtual Synchronous Generator *Fu Jun,Jiang Meng*	***122***
20210106	Optimization of UAV Ultra-low Altitude Flight Control System *Gongcai Xin, Weilun Chen, Kaijun Liao*	***128***
20210108	Research on Information Security Release Scheme of Metro Intelligent Passenger Service *Weihui Zhao ,Tongqing Sun ,Xiaochen Wang*	***133***
20210110	Research on a Precision Load Control System Suitable for Shandong Electric Power Communication Network *Fei Xie ,Peng Wang ,Shuyan Shao ,Xun Li ,Han Ye*	***138***

20210111 Delay Analysis of Multi-Physiological Parameters in Wireless Body Sensor Network ***143***
Qianyu Xu, Suoping Li,Jiankui Peng

20210112 A Method for Graded Prevention and Control of Geological Disasters in the Longdong Xifeng District based on Weight Vector Analysis ***148***
Lihui Zhu ,Beizhan Feng ,Aijun Li

20210115 Image Ship Target Detection SAR Complex Environment ***153***
Yonggang Li, Weigang Zhu,Qiongnan Huang

20210117 A new algorithm for D(β)-vertices sum distinguishing edge coloring of graphs ***159***
Limin Zhou, Jingwen Li, Bimei Wang

20210121 Research on the Requirement Analysis Method of Emergency Communication Task List ***165***
Baishun Zuo,Wei Zhu,Changsheng Yin ,Haoran Chen

20210122 Research on MIMO-ISAR High Resolution Imaging Technology ***169***
Yonghui Guo, Yuntao Li, Yu Zhang

20210123 Research on the key techniques of InISAR imaging for high-speed targets ***175***
Zhang Yu, Yuntao Li,Yonghui Guo

20210124 Classification of rotor blade number of rotor targets micro-motion signal based on CNN ***182***
Ming Long, Jun Yang,Saiqiang Xia, Xu Wei

20210126 A modulation recognition method based on enhanced data representation and convolutional neural network ***187***
Liu Depeng,Xu Jianhua,Xiang Changbo,Fang Pengfei

20210127 Positioning Method of Single Baseline Interferometer Based on Time Difference Direction Finding and Phase Difference Change Rate ***192***
Qi Liang ,Yang Kang

20210128 Credit Risk Prediction of Telecom Users based on Model Fusion ***197***
Juan Du,Jian Zhang,Shuoshuo Wu

20210130 The HT-TBD Algorithm for Large Maneuvering Targets with Fewer Beats and More Groups ***202***
Juntian Bo ,Hongbo Yu ,Guohong Wang

20210131 Detection of Inter-turn Short-circuit Fault in Induction Motors, by Park's Vector Difference Approach ***207***
Peng Luo, Yanxia Yang, Jinqiang Xu

20210132	Intelligent command and control of UAV Based on brain computer and eye tracking combined technology *Xinan Wu, Hongguang Li,Jiaqi Chen*	***212***
20210133	Optimization of Property Information Management Model Based on Cloud Computing in Big Data Era *Xiaotian Feng*	***222***
20210134	A novel method to regulate negative emotions by odors and evaluate the effect by EEG signals *Weiwei Jia, Xiaoling Li,Yang Liu, Huijin Zhu, Jiarui Lai*	***228***
20210135	A Identification Method on Real-time Ship Traffic Accident *Shukui Zhang, Si Tao, Zhenguo Ding*	***234***
20210136	A robust Kalman filter for SINS/GPS integrated Navigation *Xin Lai, Fuxin Yang*	***238***
20210137	A High-performance Charge Pump for 40nm Delay Locked Loops *Zhu Shi, Yanpeng Zhao, Bo Yang, Fei Yin, Bin Wang, Wenping Liu*	***243***
20210138	Analysis of EEG and sEMG During Upper Limb Movement between Hemiplegic and Normal People *Ziyan Zou,Lin Mao,Kuiying Yin,Jingyuan Deng*	***248***
20210139	Semantic Segmentation Based on Deeplabv3+ and Attention Mechanism *Rongrong Liu ,Dongzhi He*	***255***
20210140	Study on rectification algorithm of irregular electronic components in surface mounter *Jin Han, Gen Liu, Qingjun Xue*	***260***
20210141	Application of YOLOv3 algorithm in the positioning of Electric Multiple Unit *Yuan Zhou , Danyong Li*	***266***
20210142	Prediction method of running fatigue based on depth image *Bin Wang ,Dongzhi He*	***271***
20210143	An improved algorithm of Ground Moving Target Tracking based on Obstacle Information *Li Ding,Xuecheng Hu,Ge Xu*	***276***
20210144	A High Precision Positioning Platform System Based on Edge Computing *Mingyang Yan ,Shuo Sheng*	***281***
20210145	Application of ground-based interferometric radar in slope deformation monitoring *Hongzhe Qin,Zeming Jiang,Binbin Zhao,Honglei Yang,Yi Liu,Xiaoang Kong*	***286***

20210146	Real-Time Facial Landmark Detection by Attention-driven Lightweight Network *Lei Li, Lifang Zhou*	***290***
20210147	Research on Spatial Distribution Characteristics of Traditional Villages in Baoshan City Based on GIS *Xiaoliang Ma,Shuangyun Peng,Zhiqiang Lin*	***295***
20210148	Research on the Spatial Pattern of Living Service Industry in Kunming City Based on POI Data *Zhiqiang Lin,Shuangyun Peng ,XiaoLiang Ma*	***299***
20210150	Beam performance and characteristics analysis of meter-wave OFDM-MIMO radar under multipath conditions *Zhimin Xiong, Dangwei Wang, Xiaoyan Ma*	***304***
20210154	Multi-Hop Propagation-Based Computation Offloading Scheme in Vehicular Communication Environment *Weiqi Liu,Qingwei Du*	***311***
20210155	Design of Immersive and Interactive Application Based on Augmented Reality and Machine Learning *Yang Lu, Liu Yihao*	***316***
20210156	Research on Thermal Error Compensation Technology of CNC Machine Tool Under Real Cutting Condition *Chen Jianguo,Wang Xichang*	***324***
20210157	Objective Evaluation of Speech Communication Jamming Effect based on Composite Evaluation *Shuli Dong*	***331***
20210158	Towards A Goal-driven Dynamic Configuration approach of Business Process Models *Yan Liang, Rui Wan, Zepeng Wen, Gongliang Li*	***336***
20210159	Research on Data Model Construction Method of Enterprise OA System Based on Data Central-Platform *Rui Wan,Pengxiang Gao,Yunchang Chen ,Yan Liang*	***341***
20210160	Prediction of Emotional Tendency of COVID-19 Speech Based on Pre-training Model *Jian Huang*	***345***
20210161	A New Satellite Selection Algorithm Based on K-means *Jian Tang, Fangling Zeng, Tianbao Dong, Daqian Lv*	***350***

20210162	Stability of Neutral Stochastic Dynamic Systems driven by fBm with Markovian Switching *Xinwen Zhang*	***356***
20210163	Comparison of Classification-based Methods for Network Traffic Anomaly Detection *Shuai Guo, Yao Liu, Yang Su*	***360***
20210164	Comparison of Clustering-based Network Traffic Anomaly Detection Methods *Shuai Guo, Wenbing Lin,Kaiyang Zhao,Yang Su*	***365***
20210168	Construction of a Social Security Monitoring and Early Warning Platform Driven by Big Data *Junfeng Yu, Jianping Guo , Larysa Globa , Sisi Li, Mingjun Zhang, Xianyi Li, Jiaqi Liu*	***370***
20210169	Distant Supervised Relation Extraction based on Dense Neural Network with 2-Level Attention Mechanism *Sun Tao ,Su Qian,Qu Xiangyu*	***374***
20210170	Base on The Grey correlation System Theory for Analyzing 5G Package Users Influence Factors *Hua Zong,Kang Wang*	***380***
20210172	Weighted DBSCAN Algorithm for Discovery of Spatial Features in Industries Management *Lin Jing, Mingjing Guo*	***383***
20210173	The Curvelet Compressed Sensing Denoising Algorithm for Tobacco Insect Images *GuangLu Yang,Chunsong Li,Yadong Guo,Jianzhong Chen*	***387***
20210174	Research on Virtual Machine Performance Test Based on Cloud Platform *Pengxiang Gao,Hang Li,Xiaojie Qu,Yunchang Cheng*	***392***
20210175	Elastic Expansion Model of Container based on Combination Prediction *Yunchang Cheng, Xiaojie Qu, Hang Li, Pengxiang Gao*	***396***
20210176	Research On Radiation Characteristics of Rotating Magnetic Dipole Mechanical Antenna *Kangpo Zhou,Youtian Niu,Zhaodi Wang ,Songhao Guo*	***402***
20210177	Application of Robot Detection Equipped with Ultraviolet Imaging *Yuntao Sun, Yufeng Chen, Wenbin Ci, Jian Liang, Jiyuan Dong, Haipeng Wang, Bin Zhang*	***408***
20210178	An On-demand Routing Update Acquisition in Named-data Link State Routing Protocol *Mengze Yuan,Yu Zhang,Yuanchen Hao*	***412***

20210181	Person-post matching model based on BP neural network and its application analysis *Zhenkui Jin ,Jianjun Shen*	***417***
20210182	Design and Implementation of High Speed Serial Interface Based on GTY *Yongjie Zhao , Sida Li, Zhiping Huang*	***422***
20210184	A Novel Signal Separation Method for Micro-Motion of Helicopter Target *Liangfa Hua,Saiqiang Xia,Haifeng Liu ,Yan Gao,Xu Huang ,Caidong Zhan*	***429***
20210185	Cloud platform load balancing mechanism for microservice architecture *Ming Tang,Fei Xia,Haodong Zou,Youjun Hu ,Jun Liu, Sai Liu*	***435***
20210187	Integrated Management and Control Platform with Big Data Based on IPv6 for Regional Multi-energy Cooperation *Xiaofeng QU, Shuangshuang FAN, Ke HAN, Dongxu MIAO, Yi FAN, Kun YAO*	***440***
20210188	Research on Integrated Data Engineering of Equipment Maintenance Support in the Big Data Era *Zhen Li, Jianping Hao, Xingxin Li, Ke Li*	***447***
20210190	The Resource Databases Management System of New Fundamental Surveying Based on Integrating Multi-Source Information *Shengjie Liu,Huizhu Ni ,Shuchang Xu*	***452***
20210191	Research on Performance of Orthogonal Convolutional Codes with Ultra-low Code Rate in Spread Spectrum Communication *Huanhuan Yin,Jianxing Sun,Hong Yu,Lifang Zhang,Xin Meng*	***457***
20210192	Research on Virtual Synchronous Generator Control of Grid-connected Wind Farm with Hybrid Energy Storage *Wang Yong,Zhang Ziyang, Mou Xiaochun*	***462***
20210193	Research on EEG Feature Decoding Based on Stimulus Image *Liangcheng Qu,Dong Chen,Kuiying Yin*	***467***
20210194	Design of Series Resonant High-voltage Constant Current Power Supply *Yuchen Wang, Yahong Yang, Haitao Chen, Lei Wang, Mochen Xu, Sheng Cai, Jun Huang*	***471***
20210195	A Pixel image generation algorithm based on CycleGAN *Hailan Kuang, Nan Huang, Shuchang Xu , Shunpeng Du*	***476***
20210196	A Kind of Syntax Parsing Algorithm Based on The Push-down Automaton *Haili Luo*	***481***

20210198	A High-Resolution Interface Circuit based on Resistance-to-Frequency Conversion for Resistive Gas Sensor *Weijie Qi,Chunling Li,Jing Wang,Wenxian Gu,Dongliang Chen,George Adedokun,Lei Xu*	***486***
20210200	Application of K-Nearest Neighbor (KNN) Algorithm for Human Action Recognition *Pengbo Wang, Yongqiang Zhang, Wenting Jiang*	***492***
20210201	Number-Based Strings/Passwords From Imaginary Graphs Of Topological Coding For Encryption *Hongyu WANG, Bing YAO, Jing SU, Wanjia ZHANG*	***497***
20210202	Research on Personalized Recommendation Method Based on Multi-source Information Learning *Keqing Guan, Xianli Kong*	***502***
20210203	State Space Modeling Method of Microgrid Based on Virtual Synchronous Generator *Chenyang Li,Qinxin Lu ,Yazhou Gao ,Mengmeng Wang,Wengan Chen, Han Zheng, Siyu Zhu*	***507***
20210205	Structural Damage Detection Based on Raw Monitoring Data *Li-tao Zhang*	***513***
20210206	Design and realization of acupoint tapping massage system with three degrees of freedom based on STM32 *Wenqing Zhu,Shuqun Wang*	***519***
20210208	Research on Time-frequency Feature Fusion Method based on Dynamic Gesture Identity Authentication *Wang Yanna*	***523***
20210209	Research on Image Denoising Based on Median Filter *Xi Li, Jiajia Ji, Jun Li, Shuling He, Qin Zhou*	***528***
20210210	Design and Implementation of Security Test Pipeline based on DevSecOps *Xiaohan Sun,Yunchang Cheng,Xiaojie Qu ,Hang Li*	***532***
20210211	An Optimized Scheme of Random Access Procedure for Power Wireless Private Network *Weibin Hou,Bin Du, Qi Wang, Jie Zhou, Weiping Shao, Weijun Zheng, Jiadong Du*	***536***
20210212	Research on Layout Strategy of 5G Network Slice in Power Scenarios *Qi Wang, Weibin Hou, Jie Zhou, Jiadong Du, Weiping Shao, Weijun Zheng*	***540***

20210214	Big Data on Linear Temporal Logic Formulas *Weijun Zhu*	***544***
20210215	Research on Data Sample for SAR Ship Detection *Qiongnan Huang, Weigang Zhu, Yonggang Li*	***548***
20210216	MATLAB-based Design and Performance Calculation of Transmission Ratio of a Passenger Vehicle *YuJie tang,YanXiong Liu*	***554***
20210220	5G Network Slice Configuration Based on Smart Grid *Weijun Zheng, Ding Chen ,Jun Duan , Hong Xu, Wei Qian, Leichun Gu ,Jiming Yao*	***560***
20210221	Research on transmission line trip prediction based on logistic regression algorithm under icing condition *Cui Wei ,Han Jingshan,Li Zheng ,Wang Cong ,Wang Jiahao*	***565***
20210223	Construction and measurement of evaluation index system of distributed power carrying capacity in distribution network *Zongfeng ZHANG, Zhangwei YU*	***570***
20210224	Classification of Chinese Herbal Medicines by deep neural network based on orthogonal design *Yan Tang,Yan Wang ,Jingzhong Li ,Weiwei Zhang,Li Wang,Xing Zhai,Aiqing Han*	***574***
20210225	Research on Remote Visualized Management System of Water Supply Pipe Network Based on Palmprint Recognition *Mengyue Liu,Yanxue Xue,Meng Xue ,Zhiqiang Wang,Yue Wang*	***584***
20210226	Public Opinion Analysis of Weibo Comments Based on Crawler and SVM *Haohong Zhang,Shaohua Li,Jingying Feng ,Yiduo Liang*	***589***
20210228	Human Target Detection and Tracking Algorithm based on MIMO Bio-radar *Wenting Han , Yang Fan, Zhiyong Li , Hao Lou , Fulai Liang*	***594***
20210229	Appearance difference makes relationship: A new visual relationships inferance mechanism *Nie Yu, Zhu Siyu, su Guiping, Guo Yuxin*	***599***
20210230	The 3D Feature Prediction of the Molten Metal Direct Writing Result based on Neural Network *Mingzhao Wang, Wenjuan Rong, Jialin Wang, Yongwei Wang, Yingying Sa,Yinuo Ma*	***606***
20210231	The Self-powered RFID Sensor System for Power Transformer Condition Monitoring *Wang Jian,Zhu Mengzhao, Zhu Wenbing, Gu Zhaoliang, Wang Xuelei,Zhu Qingdong*	***613***

20210233	Fault Analysis of GIS Basin Insulator Based on Laser Ultrasonic Detection Technology *Wei Wang, Yi-bin Gao, Gang Yang, Zhu-mao Lu, Guo-dong Li, Yuan Ren , Da-wei Wang*	***618***
20210234	Image saliency detection method for safe operation of substation *Pengfei Sheng,Qi Yin,Yuezhong Shen*	***623***
20210235	Faster R-CNN based substation scene image detection method *Wei Zhu,Guoping Mu,Jun Li*	***628***
20210237	Research of Improved MRAS Based Sensorless Control of Permanent Magnet Synchronous Motor Considering Parameter Sensitivity *Yunchuan Ni, Dingguo Shao*	***633***
20210238	Design and Application of Optical Cable Online Monitoring System in Power Grid Company *Qingrui Guo, Wenbin Guo,Ling He, Xuerang Guo, Qiang Zhang*	***639***
20210241	Exploration and application of 5G network slice in electric power *Qiang Zhang, Yaping Li, Zhijun Zhang, Peng Xie, Qingrui Guo,Xuerang Guo*	***644***
20210242	Action recognition based on R2.5D-GRU networks *Xiaolin Ma, Yuying Xiao*	***649***
20210243	A Modulation Classification Method for Communication Signals Using TFA and Two-Stream Convolutional Networks *Chenxi Ke,Wei Cheng,Cenxin Peng ,Zihao Song*	***654***
20210244	Design of Hybrid Learning Mode in Higher Vocational Colleges Based on Cloud Platform *Shuai Zhang, Jinlong Wang, Decai Wang*	***663***
20210245	Research on Three-dimensional Simulation Technology of Typical Safety Accidents of Storage Tanks in Port Area *Zilong Li, Ruixin Ma, Jing Chen, Kexin Bao, Zefang Zhang*	***667***
20210246	The key technology of blockchain and its research in the field of information security *Shan Liu, Baoguo Tang,Yu Zhang*	***673***
20210247	Research of the electric communication network system based on SDN architecture *Shan Liu, Baoguo Tang,Ziqiang Zhou*	***678***

20210248	Research of Power Communication Network System Architecture Based on 5G *Shan Liu , Baoguo Tang, Yun Tian*	***682***
20210249	Design and pragtfctice of heterogeneous multisystem message center *Wenyuan Zhao , Yunchang Cheng, Yunhai Tang, Dandan Li*	***687***
20210250	Design and Research of an Ultrasonic Grain Moisture Content Detection Device *Anchen Shao,Jian Chu*	***692***
20210252	Research on Parking Planning Method based on AI Planning *Xiaojie Qu,Yunchang Cheng ,Pengxiang Gao,Hang Li*	***697***
20210255	A Compression Storage Technology for Production Process Data of an Electric Porcelain Enterprise *Siqi Wei,Shaohong Jing,Jianxue Bi*	***704***
20210256	Analysis method of electric porcelain cracking defects based on firing process data *Qingyao Meng,Qingjin Meng,Jianxue Bi*	***708***
20210257	Application of Breakpoint Continuation Technology in Data Acquisition System *Yuanyuan Chang,Qingjin Meng,Jianxue Bi*	***712***
20210258	Radar emitter signal recognition based on convolutional neural network and main ridge coordinate transformation of ambiguity function *Yunwei Pu,Taotao Liu,Haixiao Wu,Jiang Guo*	***716***
20210259	Research on control strategy of retired battery cascade utilization in 5g base station *Dinghao Liu ,Zhe Li*	***722***
20210260	On a New SNR Estimation Approach With Polar Codes *Chaofan Chen, Jiayi Wu, Changhong Wang, Xiaqing Miao, Xiangyuan Bu*	***727***
20210261	Research on Imaging Method of Power System Grounding Grid Based on Scattering Principle *Zhang Laifu,Xu Yudong, Yu Hua, Yang Hong, Wang Qian, Zhang Yu*	***733***
20210262	Diagnosis means and development tendency of power economy grounding grid flaws *Yang Hong, Zhang Yu, Yu Hua, Wang Qian, Zhang Laifu, Xu Yudong*	***740***
20210263	Improved AGNES multi-agent dynamic alliance system in complex environment *Zhaoyu Zhang,Daozhi Wei,Jiahao Xie,Ning Li*	***747***
20210265	A Video Abnormal Behavior Recognition Algorithm Based on Deep Learning *Bin Cao, Hanlin Xia, Zhengyan Liu*	***755***

20210266	Short-term Photovoltaic Plant Output Prediction based on the Case-based Reasoning *Yong Yang ,Zhicheng Ma,Xin He ,Gang Zhang ,Yunyi Niu*	***760***
20210267	Design of a Quadruped inspection Robot Used in Substation *Xuran Hu,Feng He ,Peng Xiao,Tao Wang ,Decai Zhang ,Xingfu Zhou,Yan Fan*	***766***
20210268	Least Square based System Bias Registration in Elevation for Radar when Tracking an Electrically Large Object *Kunkun Li ,Rui Cao ,Xin Zhou*	***770***
20210269	Algorithm for Improving Processor Utilization in Multi-core Processor Environment by Python Language *Feng He,Xuran Hu ,Shuren Liu , Tao Li,Kaifeng Zhu ,Xin Bao ,Chao Jiang*	***775***
20210270	Comparative study on anti-lock braking control strategies based on heavy-duty multi-axle special vehicles *Xinglei He,Hongjie Cheng ,Zhihao Liu ,Jianfu Yang ,Tong Huang*	***780***
20210271	A Laser Displacement System Based on PSD with High Anti-interference Ability *Shuo Yang, Tao Wang, Lisheng Yang, Shiyong Guo*	***786***
20210272	A Comprehensive Review of Permanent Magnet Synchronous Linear Motors in automotive electromagnetic suspension system *Lijuan Yu,Meiyu Zhang,Wen Xue,Wei Luo ,Jialong He,Hailong Tian*	***792***
20210273	Cooperative multiple task assignment using cluster method and bidirectional particle swarm optimization *Weiyong Tian,Li Liu , Qiusheng Wang,Han Mu*	***797***
20210274	Cooperative Task Assignment of Multi-UAV in Road-network Reconnaissance Using Customized Genetic Algorithm *Qiusheng Wang,Li Liu,Weiyong Tian*	***803***
20210275	Research on Rapid Response Technologies for Demand Evolution of Electricity Trading Platform *Longda Huang,Weijin Zhuang, Haichao Wang, Hailong Jiang, Zhemin Lin*	***810***
20210276	Evolutionary-based Federated Ensemble Learning on Face Recognition *Lin Li, Mai Li, Fang Qin, Weijia Zeng*	***815***
20210278	Optimization of aircraft fuel supply based on centroid balance strategy *Hao Zhang, Zhishu Zhang, Jianfeng Lu , Yuewen Li, Junwei Pang, Rongyong Zhao*	***820***
20210279	A Method of Measuring Wrist Angle of Underwater Manipulators Based on Machine Vision *Maozhou Yang, Jirong Xie, Zhiheng Zheng*	***825***

20210280	Fixed Point and Stability of a Class of Stochastic Dynamic Systems with Markovian Switching *Xinwen Zhang*	***830***
20210281	Belief Propagation based Deep Neural Networks for MIMO Detection: DNN-BP *Changqing Zhou, Bo Ma*	***835***
20210282	An Improved YOLO Algorithm for Rotated Object Detection in Remote Sensing Images *Sheng Zhang, Xu Wang, Ping Li, Long Wang, Mingdong Zhu, Haisu Zhang, Zhaowen Zeng*	***840***
20210283	Software Evolution Algorithm and Application Study Based on Fabric Blockchain *Jing Sun,Shuainan Song*	***846***
20210284	A Review of The Research on Kalman Filtering in Power System Dynamic State Estimation *Zili Yang ,Ran Gao, Weihua He*	***856***
20210285	Research on Entity Recognition and Alignment Methods in Knowledge Graph Construction of Multi-source Tourism Data *Meixue Wu, Hong Zhao*	***862***
20210290	Automated Testing of Multi-UDP Interface Equipment Software based on Scenario and Data Driven *Jinkun Zhang ,Hongqing Yang ,Zhe Sun ,Chi Hu ,Chunlei Li*	***867***
20210291	A Risk Assessment Method for the Internet Boundary Security *Min Li,Wei Chen, Leran.Chen,Yue Zhang*	***876***
20210296	Analysis of Coherent Fast Frequency Hopping Communication System *Hongzan Li ,Hangcheng Han,Jinkun Lu,Yan Hao*	***880***
20210297	Multi-sensor image matching method based on phase congruency *Qixue Li,Kuiying Yin*	***885***
20210298	Simultaneous transmit and receive based on phase-only digital beamforming *Jian Qiu, Yuan Yao, Guangxin Wu*	***890***
20210299	Frequency Hopping Pattern and Synchronization based on Hopping Spread Spectrum Communication *Yan Wang , Yan Hao, Hangcheng Han , Jinkun Lu, Hongzan Li*	***894***
20210300	Force Analysis of Aviation Winch Drum by Multi-Layer Cable *Tongxi Zhang, Fangyou Gong, Jingwei Ren*	***899***

20210303	Current Status and Development Trend of Crowd Counting *Jiaming Niu ,Yu Yang, Tong Yue*	***904***
20210304	Adaptive Iterative Learning Trajectory Tracking Control of SCARA Robot *Zhang Cheng,Zhang Zhuo*	***910***
20210305	ADIW: A Solution on General Deployment in IPv6-only WLANs *Fangze Guo,Chenhuan Liu,Shanshan Hao , Congxiao Bao , Xing Li*	***915***
20210306	Research on 3D Medical Image Segmentation based on improved 3D-Unet *Hailan Yu ,Weili Chen*	***923***
20210307	Design and Experimental Verification of Electromagnetic Integrated Detection Device *Wentie Yang, Jinwu Zhuang, Zuoshuai Wang, Lin Xu, Jianxun Wang*	***929***
20210308	Analysis of Magnetomechanical Effect of Magnetic Cavity under Geomagnetic Field *Wentie Yang, Jinwu Zhuang, Zuoshuai Wang, Chao Zuon, Jianxun Wang*	***934***
20210309	DNA-computing-based methods for Model Checking Temporal Logics with Actions *Weijun Zhu, Xiaoyu Yang, En Li, Miaolei Deng*	***939***
20210310	Cross-Layer Transmission Optimization Technique Supporting URLLC *Hang Li, Pengxiang Gao, Yunchang Cheng , Xiaojie Qu*	***943***
20210311	State of Charge Estimation of Li-Ion Battery Based on Improved Extended Kalman Filter *Hao Wang, Yifan Chen, Jiaxuan Luo, Chenchen Liu, Pengfei Gao, Guohao Chen*	***950***
20210317	A Multi-Level Feature Fusion Network For Scene Text Detection with Text Attention Mechanism *Xinhua Liu,Xiaokang Chen,Hailan Kuang,Xiaolin Ma*	***954***
20210318	Delay Analysis of Power Wireless Private Network System in 230MHz Band *Qi Wang,Bin Du, Yanru Wang, Hui Liu, Jiadong Du, Jie Xu,Weibin Hou*	***959***
20210321	Highly Reliable Control System based on Reactive Event Stream *Haidong Lv*	***963***
20210322	Measurement and analysis of urban landscape expansion based on multi-order adjacency index *Jing Liu,Quanli Xu*	***967***

20210323	Analysis and research on hidden danger of coal mine safety based on improved FP-growth algorithm *Xiaoxia Lin, Jiashuai Zong,Xiaodong Yang ,Min Liu*	***971***
20210324	Research on Application of 5G Technology in Unmanned Combat System *Jie Luo, Bing Su, Zhigang Jia, Guowei Yuan*	***979***
20210326	Research on Multi-sensor Information Fusion Algorithm Based on SCI-AUKF *Shanshan Wan ,Qing Sun ,Xuecheng Yu*	***985***
20210327	Analysis on the Characteristics and Spatial Pattern of Urban Expansion in Yuxi City *Xincheng Zhong,Quanli Xu,Shan Li*	***990***
20210328	Sharingchain : A privacy protection scheme based on blockchain in the supply chain *Wei Wang, Lianhai Wang, Shujiang Xu, Jinpeng Wang, Kunlun Fu*	***995***
20210329	A Systematic Review of Network Protocol Fuzzing Techniques *Zhihao Hu, Zulie Pan*	***1000***
20210330	The Course Selection Platform in Colleges and Universities of Network Load Balance Based on Server Cluster *Jia Wang, Yinchun Gao*	***1006***
20210331	Blockchain-based privacy protection scheme for smart park multi-energy fusion system *Guanlin Si,Yue Zhang,Yue Sun,Wei Chen*	***1011***
20210332	A Novel Blind Detection Algorithm Based on Multi-Clustering Complex Neural Network *Jinwen Wu, Haihong Jin, Shujuan Yu,Yun Zhang*	***1017***
20210334	Research on Ecological Vulnerability Evaluation of Yunnan Province Based on SRP Model *Lijuan Jin, Quanli Xu*	***1022***
20210335	Analysis on temporal and spatial changes of vegetation coverage in Yuxi City from 1995 to 2015 *Shan Li,Quanli Xu*	***1027***
20210336	A Review on Intrusion Drone Target Detection Based on Deep Learning *Rongqi Jiang, Yang Zhou, Yueping Peng*	***1032***
20210338	Monitoring and analysis of the dynamic changes of urban land expansion in Kunming from 2000 to 2020 *Wenhui Li, Quanli XU*	***1040***

20210341	A Identification Method on Traffic Accidents in the Lower Yangtze River *Shukui Zhang, Si Tao, Zhenguo Ding*	***1044***
20210342	Radar Emitter Signal Recognition based on Contour Lines of Ambiguity Function and Stacked Denoising Auto-encoders *Yunwei Pu, Jiang Guo, Taotao Liu, Haixiao wu*	***1048***
20210346	Research on Automatic Architecture of Energy Consumption Data Acquisition and Uploading Based on TCP/IP Protocol *Pan Wang, Hairong Yan*	***1054***
20210347	Stability Technology Of Wind Speed Indication In Underground Coal Mine *Peng Liu*	***1063***
20210349	An improved yolov3 algorithm for pulmonary nodule detection *Lin Haibo,Tao Shanli,Song Shuang,Liu Haoran*	***1068***
20210350	Fracture identification and quantification through digital rock analysis *Yangdong Gao,Heming Lin,Lijun Guan,Wei Li,Guanqun Wang,Haoran Cheng,Wei Long*	***1073***
20210351	An ECG Sparse Noise Reduction Method based on Deep Unfolding Network *Bingxin Xu,Ruixia Liu, Yinglong Wang*	***1078***
20210352	Semi-supervised Extreme Learning Machine-based Method for Moving Cast Shadow Detection *Guanglei Kan, Chengduan Wang*	***1083***
20210353	Multifrequency readback and scrub method based on detecting key frames *Zhibo Fang,Zhifeng Ma*	***1090***
20210354	Research on the Applications of Data Mining in the Analysis of Vehicle Insurance Industry *Jianbing Xiahou,Meng Xiao ,Xiaojing He,Xu Cui*	***1095***
20210355	Design of ARM-based Intelligent Unmanned Surface Vehicle Control and Acquisition Module *Yongliang Zhang ,Juanhui Yu ,Wenjie Zhang ,Cheng Dai,Rubin Yuan*	***1100***
20210356	A Entity Attention-based model for Entity Relation Classification for Chinese Literature Text *Wenrui Xie*	***1104***
20210358	Picking Path Optimization of Colony Picking Robot *Yilang Zhang, Jian Xing, Guohua Chen*	***1109***
20210359	A Method for Recognizing Feature Regions of Object Model Based on Instance Segmentation *Guohua Chen,Yiyou Zhang,Jian Xing*	***1114***

20210360	Improved Faster-RCNN Algorithm for Mask Wearing Detection *Lei Wang,Yong Lin,Weiye Sun,Yezhi Wu*	***1119***
20210361	Research on the characteristics of flexible control load of rural distribution network and flexibility evaluation *Bo Wang,Mingguo Zheng ,Yongting Lu,Jinlian Wu,Jianbin Zhou ,Zhengqiang Wu ,Kai Zhao*	***1125***
20210362	Research on Multi-objective Optimal Dispatching and Low Voltage of Distributed Generation in Rural Distribution Network *Jianbin Zhou, Bo Wang, Jinlian Wu , Yongting Lu, Mingguo Zheng, Zhengqiang Wu, Kangchao Ma*	***1131***
20210363	Electrocardiogram classification based on convolutional neural network and transfer learning *Jing Zhou, Aimei Dong*	***1137***
20210365	Optimization of Target Artifact Under Diffuse Reflection *Sihan Wu,Yong Yi,KaiZhu*	***1142***
20210366	An Improved Pole Extraction Algorithm with Low Signal-to-Noise Ratio *Tingting Feng,Jun Yang,Pengcheng Ge ,Shuo Zhang,Yu Du ,Haoyue Wang*	***1146***
20210367	Level set segmentation method based on local area fitting information and guided filter fuzzy clustering *Cheng Yang ,Yong Xue*	***1151***
20210368	Design Tension Controller for the Rewinding System of Roll-to-roll Precision Coating Machine *Ziyu Wang, Shanhui Liu, Feiqiang Jiao, Zengqiang Zhang, Weifeng Chen*	***1156***
20210369	Data Augmentation for Passive Sonar Received Signal Using Particle Propagation Model *Jianghao Zhuo,Ling Wang ,Ke Xu ,Jianwei Wan*	***1161***
20210370	Fault Location Method of Aircraft Cable Based on Spread Spectrum Time-Domain Reflection *Biyuan Hu, Jiali Wang, Cunbao Ma, Qi Ma, Yan Liang*	***1166***
20210371	Research and Construction of the Evaluation Technology System of Intelligent Analysis and Decision Software *Lei Zhang, Wenqiang Li, Bo Xu*	***1175***
20210375	A new Bi-level programming model for uncertain supply chain problems *Hanshi Shentu,Liuyang Yuan,Weibin Zhang*	***1179***

20210376	Design of a testing system for a large-range piezoelectric force sensor based on LabVIEW *Xiaoqi Yang ,Yingjun Li ,Guicong Wang ,Sikang Cai*	***1183***
20210378	Research on Personalized Education Data Processing in the Era of Big Data *Dongdong Xue*	***1188***
20210379	Hybrid Denoising Based Correlation Power Analysis for AES *Kefei Cheng ,Ziyan Song ,Xiaotong Cui ,Liang Zhang*	***1192***
20210380	Mathematical analysis of 4-ary MSK signal spectrum based on Markov chain Process Strategy *Niu Zheng, Jiang Yuzhong, Zou Wenliang , Liu Gang, Huang Zhi*	***1196***
20210381	Research on life prediction method of smart meters in multi environment based on PSO-SVR *Dan Li ,Dang Ming, Guangze Pan, Qin Luo , Xiaobing Li*	***1202***
20210382	UAV detection based on rainy environment *Kai Luo,Rongjian Luo,Youwei Zhou*	***1207***
20210383	A Fully Convolutional Network based on Double Attention for Saliency Object Detection *Yufeng Wu ,Yunfeng Nie,Jianlu Fu,Wenxuan Gong*	***1211***
20210385	Campus network intrusion prevention and detection application research *Sijun Li, Haotian Liu, Weichao Lv, Chun Liu*	***1216***
20210386	An Arbitrary Style Transfer Network based on Dual Attention Module *Yueming Wang*	***1221***
20210387	An On-line Evaluation Method of Multi-Functional Radar Jamming Effect *Bakun Zhu, Weigang Zhu ,Wei Li ,Tianhao Gao*	***1227***
20210388	Water Velocity and Level Monitoring Based on UAV Radar *Taoran Wang, Shuxian Hao, Xinyi Ma*	***1232***
20210390	Analysis of Influencing Factors of Pedestrian Injury Based on Orthogonal Test *Yue Zhang,Fengchong Lan,Jiqing Chen*	***1237***
20210391	A Novel PID Control Strategy Based on PSO-BP Neural Network for Phase-Shifted Full-Bridge Current-Doubler Synchronous Rectifying Converter *Hemiao Liu, Yulian Zhao, Mahmoud Al Shurafa, Jiufei Chen, Jing Wu,Yanming Cheng*	***1241***
20210392	Vulnerability Assessment and Attack Simulation of Power IoT Based on the Attractiveness of Equipment Assets *Wei Liu, Tao Zhao*	***1246***

20210394	Research on attitude control strategy of Two-DOF helicopter based on LabVIEW *Zhiqiang Liu,Xi Ye,Tonghui Qian*	***1251***
20210395	A Feature Learning Model Supporting Incremental Learning *Liting Duan, Huiyi Liu, Wenjing Wu, Siying Xu*	***1256***
20210396	An Improved SSD Network for Small Object Detection based on Dilated Convolution and Feature Fusion *Jianlu Fu,Yunfeng Nie,Wenxuan Gong,Yufeng Wu*	***1261***
20210398	Research on SDN-based Dynamic Management of Energy Consumption of Cloud Data Center *Jing Tao*	***1266***
20210399	Multiband Radar Signal Phase Reference Synthesis Based on Matrix Pencil Method *Shuo Zhang,Jun Yang,Pengcheng Ge, Tingting Feng, Yu Du , Haohao Jiang*	***1271***
20210400	Regional Crowd Status Analysis based on GeoVideo and Multimedia Data Collaboration *Yan Zhou,MengDou Qin,Xu Wang,Cong Zhang*	***1278***
20210401	Design and Development of Airflow Self-controlling Dust Filter Respirator in Dusty Environment *Xue Bai*	***1283***
20210402	Overview of Distant Supervised Relation Extraction *Xiang Li, Junan Yang, Hui Liu, Zongwei Liang, Lingzhi Qu, Yu Zhang, Kun Shao, Dongxing Zhao*	***1287***
20210403	Research on Evaluation Method of Combat Oriented Data Link Message Coding *Guohui Jia,Chen Zhang ,Jian Cheng*	***1293***
20210404	Research on the Advantages of 5G Network to online Learning *Chen Xiaoya,Li Zaihui*	***1299***
20210406	Study on Invulnerability Optimization of Optical Backbone Networks Based on Complex Networks *Yipeng Xiong, Yuan Tan, Guangjun Zeng, Ming Zhou, Xinle Li, Dexin Cheng*	***1303***
20210407	Data-driven scheduling for smart shop floor via reinforcement learning with model-based clustering algorithm *Yuxin Li, Wenbin Gu, Xianliang Wang, Zeyu Chen*	***1310***
20210408	An enhanced INS/GNSS integrated system with ODO for train positioning *Yang Meng,Jingxiao Feng,Wei Wang*	***1315***

20210409	Review of SOC estimation methods for lithium battery based on EKF *Zhiguo Chang, Qiang Yin, Jianghua Gan, Mingran Zhang, Tianjin Chen, Xiangli Liu,Wei Shi*	***1319***
20210410	Analysis of Distributed Synthesis Algorithm based on Simple and Sumple Algorithm *Jing Xu , Shuyan Ni ,Yumin Yang*	***1327***
20210411	A Graphical Design Method of Fractional-Order Proportional-Integral Controllers Based on Frequency-Domain Specifications *Xu Li, Daqing Wang, Dun Hu, Qianqian Zhang, Lifu Gao*	***1333***
20210412	Intelligent Communication: Application of Deep Learning at the Physical Layer of Communication *Yile Fan , Ding Dan,Yuanpeng Li ,Zhiqiang Wang,Zhongqian Liu*	***1339***
20210413	Radar HRRP Data Augmentation Using CVAE with Extended Latent Space Distribution *Wenxiang Zhang, Youquan Lin, Long Zhuang, Jie Guo*	***1346***
20210414	Research on Deep Learning Model of Fog Visibility Estimation Based on CNN *Junling Wang, Lijing Zhang*	***1355***
20210415	Periodic impulse feature separation by combination of bi-frequency map and nonnegative matrix factorization *Lin Liang, Xingyun Ding, Haobin Wen, Lei Shan*	***1360***
20210416	Deep Learning Based MIMO-NOMA Receiver Research *Jingwen Huang, Zhiling Tang*	***1365***
20210417	Fault detection, analysis and prevention of aircraft electrical circuit *Xu Heng cheng, Chen Pu*	***1369***
20210418	Research on Edge-Magic Total Labeling Algorithm of Hierarchical Cascade Graph *Rong Luo , Jing Wen Li, Shu CHeng Zhang*	***1374***
20210419	Research on Performance Evaluation of Three Level Public Hospitals Based on Fuzzy Comprehensive Evaluation Model *Yifeng Dou, Fubiao Wang, Xiuchun Wu,Wentao Meng*	***1380***
20210422	Surface Defect Detection of Hight-speed Railway Hub Based on Improved YOLOv3 Algorithm *Yelong Yu,Meiling Wang,Zeming Wang,Ping Zhou*	***1386***
20210423	Research on Color Uniformity and Seam Detection of Standard Test Paper Based on Machine Vision *Xia Dong,Fei Zheng ,Zewei Wang*	***1391***

20210424	Small sample signal modulation recognition method based on transfer learning *Zhiyi Du ,Baoguo Li*	***1396***
20210425	Multi-agent Deep Reinforcement Learning based on Maximum Entropy *Zihao Wang, Yanxin Zhang,Chenkun Yin, Zhiqing Huang*	***1402***
20210426	Dynamic Model Construction and Simulation Based on Intelligent Driving Vehicle *Jie Huang, Shan Xiao,Long Xiao,Yang Jiao, ZhaoQiang Wang,XueLei Wang*	***1407***
20210427	MTDCD: an MTD Enhanced Cyber Deception Defense System *Chungang Gao, Yongjie Wang, Xinli Xiong, Wendian Zhao*	***1412***
20210428	Multi-mode Composite Track Estimation Method Based on Distributed Measurement Fusion *Xia KeQiang, Xing Meng, Du ChunYan, Fu Na, Chen JianPing, Li GanHua, Lv JiYuan*	***1418***
20210429	Association Analysis of User Promiscuous Traffic Based on Convolutional Neural Network *Yonglin Li, Yan Liu*	***1422***
20210430	A Method for Estimating the Parameters of Spaceborne Synthetic Aperture Radar LFM under a Low Signal-to-Noise Ratio *Shihong Chen,Minghai Pan ,Xudong Wang*	***1426***
20210431	Application of Workflow Technology in the Integrated Management Platform of Smart Park *Zhiyang Zhao,Xianxun Zhu,Xiong Wei,Xu Wang,Jiancun Zuo*	***1433***
20210432	Design of distributed temperature and humidity monitoring system based on single-chip microcomputer *Yue Li,Longqing Shi,Peihe Zhai,Deming Zhang,Haibin Fan*	***1438***
20210433	Data Processing and Encryption in UAV Radar *Xinghua Du, Ying Tang, Yangke Gou, Zhanpeng Huang*	***1445***
20210434	Multi-channel wideband signal full bandwidth synchronous acquisition method *YangKe Gou, Ying Tang, XingHua Du, ZhanPeng Huang*	***1451***
20210435	Design of Software Fault Tolerant System for Autonomous Underwater Vehicles *Qi Wang ,Yong Liu , Tao Xu ,Xuejie Sun ,Jiwei Li*	***1456***
20210436	Music emotion recognition based on combination of multiple features and neural network *Chenguang Zhang, Jinming Yu, Zhuang Chen*	***1461***

20210437	Research on Driving Decision of Smart Vehicles Based on Reinforcement Learning *Shan Xiao,Jie Huang ,Long Xiao,Yang Jiao, ZhaoQiang Wang,XueLei Wang*	***1466***
20210438	A Technique for Determining Integer Ambiguity Based on Joint Difference Modeling of Pseudorange and Carrier Phase in GNSS Systems *Zhongting Chen, Li Zhao, Renshen Huang*	***1470***
20210440	The modeling and simulation analysis of micro digital servo actuator *Lingfei Duan, Xiong Su, Lu Chen, Zixiao Wang, Hongqiao Zhang*	***1475***
20210441	Study on Improving the Direction-Finding Accuracy of Rotary Baseline Phase Interferometer *Dong Li, Yiwen Jiao, Zefu Gao, Feilong Mao, Hao Zhang*	***1480***
20210443	Research on correction and recognition of QR code on cylinder *Jing Jin, Keyi Wang, Wei Wang*	***1485***
20210445	Design of High-precision Ultrasonic Ranging System for Mobile Robot *Qin Li, Zhanpeng Huang,Zhongming Zhu*	***1490***
20210446	Transformer-based channel noise reduction deep convolution residual network *Yang Li, Zhongdong Wu, Yuan Kang, Qian Cheng*	***1496***
20210451	Information modeling and redundant data processing of mechanical product configuration design *Binyuan Liu, Xuefeng Jin, Xinggang Wang*	***1500***
20210452	Conversion and selection of standard values for mechanical product configuration design features *Binyuan Liu, Xuefeng Jin, Xinggang Wang*	***1506***
20210453	Radar Active Jamming Recognition based on Recurrence Plot And Convolutional Neural Network *Junjie Lin,Xiaolei Fan*	***1511***
20210454	Test vector generation for high-speed digital integrated circuits *Wanyu Yang,Jiacheng Hui,Kun Yin ,Zhijian Dai,Kaihua Deng*	***1516***
20210455	High-precision channel synchronization design of PXIe digital integrated circuit test system *Wanyu Yang,Jian Wu,Kun Yin,Zhijian Dai,Qinchen Dai*	***1522***
20210456	Surveillance Personnel Behavior Analysis Technology based on Operation Log *Chuandong Lv, Yang Yang, Qiyue Sun, Bin Zhou, Peng Xu*	***1530***
20210458	An Adaptive Multipath Routing for LEO Satellite Network *Yunhui Huang, Wanqin Cao, Xun liu, Xiaofeng Jiang, Jian Yang, Feng Yang*	***1536***

20210459	Aircraft Targets Detection in Remote Sensing Images with Feature Optimization *Qing Hu, Runsheng Li, Chaofan Pan, Yintu Bao, Haobo Zhang*	***1542***
20210460	Research on the performance of fuel cell vehicle at cold start of -30 ℃ *Tong Wang,Nanlin Lei ,Shaoqing He,Xiaoyu Jia,Qiang Zhang,Feikun Zhou,Wenwen Guo*	***1550***
20210462	A Low-Sidelobe-Level Variable Inclination Continuous Transverse Stub Antenna with Two-Types Stubs *Kexin Wang, Xue Lei, Jun Gao, Tianpeng Li, Mingyang Zhao*	***1554***
20210463	SCARA Modeling and Simulation based on SimMechanics and Solidworks *Zhang Zhuo,Zhang Cheng*	***1559***
20210464	Design of temperature and humidity control system based on ARM *ZhanPeng Huang, XinHua Du, YangKe Gou, QinLi*	***1564***
20210466	Handwritten number recognition based on PCA and neural network *Zhihong Hu, Qian Tian, Hongbo Wang, Zhenyu He*	***1570***
20210467	Deep Learning Target Vehicle Detection Method Based on YOLOv3-tiny *Lifu Li,Yi Liang*	***1575***
20210468	Research on Prediction of Attack Behavior Based on HMM *Sen Jing, Min Li,Yue Sun,Yue Zhang*	***1580***
20210469	Research and Implementation of ORB-SLAM in Drastically Changing Scenes *Zemin Wang,Meiling Wang, Yelong Yu ,Xiaodong Ye*	***1584***
20210470	Traffic Sign Recognition and Retrieval Using Limited Dataset in the Wild *Enke Li, Lingrui Mei*	***1588***
20210471	Algorithm of Spaceborne SAR Echo Simulation based on Range Horizontal Segmentation *Zejie Zhu ,Yongle Lv ,Lin Xue*	***1595***
20210473	An Automatic Acquisition Method of Detection Data for Substation Equipment *Ka Mu, Guangwei Liu, Zhen Hao, Xinsheng Ma, Han Qin, Jixian Ma ,Zheng Niu*	***1600***
20210474	Design and Realization of Spacecraft Test Data Analysis Platform *Zhongwen Li,Ling Liu,Tiantian Shen*	***1605***
20210475	A Novel Fast NLM Denoising Algorithm Based on Improved Kernel Function Parameters: Applied to RFID Labels *Shanhao Zhou, Xiaolei Yu, Yu Wang, Feng Zhu, Ke Zhang, Zhenlu Liu,Zhimin Zhao*	***1609***

20210476	Research and Identification of DC Magnetic Bias of Transformer Based on Discrete Wavelet Transform *Yuan Liu, Huida Duan*	***1614***
20210477	Design of signal shaping filter based on distributed algorithm *Zhuang He,Fanqiang Lin*	***1619***
20210478	Research on Mine Power System Leakage Fusion Criterion by Improving Genetic Algorithm to Optimize BP Neural Network *Xiucai Guo,Fei Xie*	***1623***
20210479	Design of W-Band High Efficient Power Combiner Utilizing Silicon Micromachining *Shitong Yu,Hai Xiahou,Xiaoming Xing*	***1628***
20210480	An Adaptive Threshold Estimation for Coarse Synchronization in Transponding Satellite Communication System *Lei Chen, Chengyao Tang, Ke Zhang, Jingyuan Li, Weihua Mou*	***1633***
20210481	Key Technologies of Heterogeneous System General Data Service based on Virtual Table *Hong Zhang,Qi Zhao ,Fang Yu,Weijin Zhuang*	***1638***
20210482	Measured acoustic coefficient values correction method based on coordinate rotation *Yajie Ma,Yuyan Yu ,Yi Hu*	***1643***
20210483	Research on frequency distribution and interference coordination method of power wireless private network based on service isolation *Jiming Yao, Weiping Shao ,Weijun Zheng*	***1649***
20210484	Research on Statistical Algorithm of Microalgae Growth Status Based on Computer Vision *Zichuan Chen, Shigang Cui, Yongli Zhang ,Lin He*	***1653***
20210485	Optimization Method for Coordination Deployment of Air Defense System Based on Improved Genetic Algorithm *Naiyang Xue, Dan Ding, Jie Ding, Bo Ma, Yutong Jia*	***1658***
20210487	A Blockchain Based Link-Flooding Attack Detection Scheme *Wanqin Cao, Yunhui Huang, Dezheng Li, Feng Yang, Xiaofeng Jiang, Jian Yang*	***1665***
20210489	Analysis of Multi Index Association of Power Grid Work Order based on Data Mining *Lingyu Huo, Yan Zhang, Jianwen Zhang, Fei Liu, Jing Liang, Yao Wang*	***1670***

20210490	Divider Implementation Based on USPAwadhoot Division Algorithm For Area Optimization *Udayan Patankar ,Dr Ants Koel,Sunil Patankar , Miguel E. Flores*	***1675***
20210492	A Method Based on Quinn Algorithm to Improve The Accuracy of PMF-FFT Doppler Frequency Estimation *SUN Xiyan, HU Xunxiong, JI Yuanfa, GUO Ning*	***1683***
20210493	Research on Tracking Robot Based on Depth Camera *Yi Liu,Chunchao Chen*	***1688***
20210494	An Improved BoxInst Model for Plane Instance Segmentation in Remote Sensing Images *Shangzheng Jiang, Qingzhong Jia, Fengkun Luo, Tao Yang*	***1694***
20210495	Research on Wireless Power Transmission in Coal Mine Based on Explosion-Proof Safety *Jijian Meng*	***1700***
20210496	Research and improvement of deep learning tool chain for electric power applications *He Yang ,Long Lin,Cuncun Shi,Yue Wang*	***1705***
20210497	Design of Dual-Band CTS Antenna for Ku/Ka Satellite Receiver *Rui Yang,Xue Lei,Jun Gao,Mingyang Zhao,Penghui Wei*	***1711***
20210498	Observer-based multiplicative passive control for a class of uncertain time-delay sampled-data system *Shigang Wang,Yongli Bi,Wenjuan Qi,Xueliang Wang*	***1716***
20210499	Feasibility Study of Force Feedback in Gear Transmission Fault Monitoring *Peng Zhao,Yingjun Li,Fajia Li ,Guicong Wang*	***1721***
20210500	Wideband Circularly Polarized Arrow-Shaped Waveguide Slot Array Antenna *Hai Wang, Tiandong Duan, Xue Lei, TianPeng Li, Jun Gao*	***1726***
20210503	Terminal Sliding Mode Control of Permanent Magnet Synchronous Motor Based on A Novel Adaptive Reaching Law *Chang Xu, Kun Wang, Xueqin Yang, Binbin Zhang*	***1731***
20210504	A Parallel Optimization Method for KCF based on Inter-core Communication of Multi-core DSP *Wancang Wu, Qingzhong Jia, Fengkun Luo, Tao Yang, Hong Huang*	***1736***
20210505	Research on hot spots of entrepreneurship of Chinese college students based on text analysis *Yanhui Feng, Yonghui Dai, Ziyan Wu, Peng Jiang*	***1741***

20210508	L21-Norm-Based Common Spatial Pattern with Regularized Filters *Jingyu Gu, Qian Cai, Weiqiang Gong, Haixian Wang*	***1746***
20210510	A Method of Polyphone Disambiguation Based on Semantic Extension *Qi Wang*	***1752***
20210511	An Energy Management Method of Electric Vehicles Based on Stochastic Model Predictive Control *Yande Li*	***1757***
20210513	Development of accurate and effective software for 4πβ-γ coincidence counting *Ke Zhong,Yukun Li,Kezhu Song*	***1762***
20210514	AMO-Net : abdominal multi-organ segmentation in MRI with a extend Unet *Chao Jia, Jianjing Wei*	***1770***
20210515	Research on Stock Market Analysis Based on Deep Learning *Allam Maalla,ChongYao Zhuang,QinHui Feng ,Lu Shen*	***1776***
20210516	Research on Financial Data Analysis Based on Applied Deep Learning in Quantitative Trading *Allam Maalla, ChongYao Zhuang,QinHui Feng*	***1781***
20210518	A Study of Effects of Teaching Styles on Student Engagement: Evidence from E-learning *Xing Long Xie, Wei Xian Xue*	***1786***
20210519	Unsupervised Domain Adaptive Object Detection Based on Channel Recalibration and Ancillary Net *Qin Wang ,Siyu Jiang,Le MA ,Chunyun Zheng,Xiaolei Su,Ruihao Shi*	***1795***
20210520	A Method for Detecting Micro-scale Weld Defects in Complex Background *Hongquan Jiang ,Pengxing Wang ,Jianmin Gao ,Huyue Chen ,He yang ,Zhiguang Shi ,Deyan Yang*	***1800***
20210521	Chinese Proprietary Domain Text Named Entity Recognition *Changzhe Li,Xiaojing Liu*	***1805***
20210522	GLONASS Signal acquisition Based on Analog to Information Convertor *Guodong He, Maozhong Song, Shanshan Zhang, Ting Jiang, Huiping Qin*	***1810***
20210524	Application of PID Tracking Control in Inverted Pendulum System *Lingfei Duan, Xiong Su, Youyuan Tang, Houping Yang, Hongqiao Zhang*	***1815***
20210527	Dynamic Inversion controller design for BTT Missile Based on Sliding Mode control *Bin Huang, Yongshan Liu, Anran Xu*	***1820***

20210528	Energy consumption optimization based on Endirichlet distribution in Mobile crowd sensing *Zhi gang Jia, WeiweiZhao,ChangjingXu,Jie Luo,Bing Ren*	***1825***
20210529	Detail Modeling research and experimental verification of wound pouch lithium-ion battery *Jie Qu ,Chao Wang*	***1831***
20210530	Single Image Super-Resolution with U-Net Generative Adversarial Networks *Yin Wang*	***1835***
20210531	Multi-step breast mass image segmentation method based on MFC-PCNN *Ruifeng Huang ,Jing Lian ,Caixia Zhang*	***1841***
20210532	Research on Anti-jamming Simulation based on Circular Array Antenna *Dashuang Yan,Shuyan Ni*	***1848***
20210533	A People Recognition Method Based on Face and Body Information *Nan Wang , Qingyu Sun*	***1854***
20210534	E-Unet++: A Semantic Segmentation Method for Remote Sensing Images *Yintu Bao, Wei Liu, Ouyang Gao, Zhikang Lin, Qing Hu*	***1858***
20210535	Specific Emitter Identification Based on Two Residual Networks *Lingzhi Qu, Junan Yang, Hui Liu, Keju Huang, Pengjiang Hu, Xiang Li, Yu Zhang*	***1863***
20210536	Towards Application-aware Resource Allocation for Virtual Data Centers *Saleem Karmoshi,Fekri Saleh,Shuangwu Chen*	***1870***
20210537	Application Model of Video Surveillance System Interworking Based on Blockchain *Jingwen Li, Xiaoou Liu, Jun Zhao, Wei Liang, Lening Guo*	***1874***
20210538	An adaptive triangulation optimization algorithm based on empty circumcircle *Lianhong Shen, Zhongshan Yang,Shougang Hao*	***1880***
20210539	Research on Road-Network Traversal of Fixed-Wing Multi-UAV in Urban Environment *Tianhe Lu, Li Liu*	***1885***
20210541	SINR maximization in MIMO radars using Riemannian quasi-Newtown optimization *Haoming Zhu, Qihang Zhou, Weijian Zhang, Weijie Xiong, Jinfeng Hu*	***1891***
20210543	MIMO Radar Waveform Design with Robust Interference Suppression Capability *Kai Zhong, Qihang Zhou, Weijian Zhang, Weijie Xiong, Jinfeng Hu*	***1896***

20210546	Semi-supervised Semantic Segmentation Network based on Knowledge Distillation *Weizhen Wang*	***1900***
20210548	Application of Hermite Interpolation Finite Element Method in Two-dimensional Ion Flow Field Calculation *Baojia Deng,Shiling Zhang,Zi Zhang ,Wenyan Gan,Xiaoxiao Luo,Jieli Xu*	***1906***
20210549	A Modified Method for Welding Seam Location of Tube-Sheet Welding Based on Image Edge Segmentation *Hanmin Ye, Yingzhi Liu, Keqin Su*	***1913***
20210550	Complex Division By Baudhayan Triplet Algorithm Using Novel State Of The Art USP-Awadhoot Divider *Udayan Patankar,Dr Ants Koel ,Sunil Patankar ,Miguel E. Flores*	***1918***
20210551	Research on Intelligent Cognition Method of Missing status of Pins Based on attention mechanism *LI Weitao, GUAN Huimin, ZHANG Qian, WU Gang, TANG Jian, DING Meishuang*	***1923***
20210553	Research on Plant Disease Detection Technology Based on Wireless Sensor Network *Zhiqing Yang, Hanmin Ye, Yingzhi Liu*	***1928***
20210554	Analysing Effective Connectivity of the Math-gifted Brain with Nonlinear Granger Causality *Xiang Jiang, Haixian Wang*	***1932***
20210555	Building contour regularization method based on ground LIDAR point cloud data *Lijiao Li,Hairong Yan*	***1937***
20210556	The Study on Online SSVEP based BCI system using CCA method *Yingqiong Yong,Boyu Zang, Jia Yang ,Shengjia Li*	***1942***
20210559	Verification Code Recognition Based on Convolutional Neural Network *Qian Tian, Qishun Song, Hongbo Wang, Zhihong Hu, Siyu Zhu*	***1947***
20210560	Lithium-ion Battery Remaining Life Prediction Method Based on Hybrid Algorithm *Guowei Tong, Jia Cai, Linyi Huang, Xundao Zhou, Binhui Liu*	***1951***
20210561	Optimization of ADRC Parameters Based on Particle Swarm Optimization Algorithm *Zhiliang Chen,Yunfei Li ,Yongli Zhang*	***1956***
20210562	Research on Batch Detection Technology of Common Network Security Vulnerabilities in IoT Terminals *Mingxuan Li,Zhushi Yang,Xu Wang ,Ling He,Yangxin Teng*	***1960***

20210566	Engine oil quality analysis based on probabilistic neural network *Hui Lian,Zhiyu You,Rong Zhang, Tao Zhou,Yan Xia*	***1963***
20210567	Analysis of Influencing Factors of Technical transformation Project Cost Based on PCA-ISM *Yujie Xu,Haiyu Qi, Lei Shi*	***1967***
20210568	Image Enhancement Method Based on Bi-cubic Interpolation and Singular Value Decomposition *Hanmin Ye, Keqin Su,Yingzhi Liu*	***1972***
20210569	Research on Space Mosaic Reconfigurable System Based on MAS *Gangxuan Hu,Xinhong Li,Guohui Zhang*	***1977***
20210570	Analysis of the Application of 5G Technology in Spacecraft Testing *Baowei Tang,Lu Yang ,Haixia Su ,Junwei He*	***1982***
20210571	Research on Overvoltage Identification Method of EMUs High Voltage Electrical System Based on Deep Learning *Jiapeng Yang,Shaobing Yang ,Kejian Song,Zhuoming Liu*	***1985***
20210573	Multi Factor Quantitative Stock and Transaction Timing Selection Model Based on Information Coefficient Mean Value Scoring *Yiting Zheng, Wei Nai, Yilei Ren*	***1991***
20210574	Development Study on CBTC Related Techniques Based on Systematically Analyzing Granted Patents of Alstom Company *Shuo Ma, Jiajun Chen, Zekai Li, Wei Nai, Yidan Xing*	***1997***
20210575	Research on User Action Recognition Method Based on parallel CNN-BiLSTM neural network *Minjie Wu, Zhiling Tang*	***2003***
20210576	Semantic Understanding of Source and Binary Code based on Natural Language Processing *Zhongtang Zhang ,Shengli Liu ,Qichao Yang ,Shichen Guo*	***2010***
20210577	Sensor Array Design for Toxic Gas Detection in Electronic Nose System *Huan Zhang,Hongli Tai*	***2017***
20210579	Design of a new acoustic Doppler wave and current measurement instrument *Yao Puyu,Yang Ying,Zheng Wei,Hui Li,Liu Maoke, Zhao Bin,Zhou Yang*	***2021***
20210580	Advanced Driver Assistance System based on Machine Vision *Jiajun Zhu, Fanglei Shi, Jiaying Li*	***2026***

20210581	Training Samples Set Simplified Method based on Key Frame Extraction *Jiguang Mo,Yang Yang,Qiyue Sun,YunXia Liu,Xuesong Gao*	***2031***
20210582	A New Multi-beam Amplitude-Comparison Direction Finding Algorithm based on Gaussian Slope Correction *Ting Hao,Kang Yang,Mingfeng Zhao ,Qichao Zhou,Lei Zhang*	***2037***
20210585	Comprehensive Evaluation of Emergency Situation after Collisions at Sea Based on Extenics *Zhihong Ma,Kun Lang,Yingjun Zhang,Shengwei Xing*	***2042***
20210587	A secure blockchain-based housing rental platform *Rong Yu, Zhenqi Wang, Conghui Zhang, Shaopeng Guan*	***2049***
20210588	A Review of Camouflaged Target Detection Research *Tao Wu, Hui Liu, Jingcheng Zhu, Lunwen Wang*	***2054***
20210589	Optimization of small caliber projectile based on neural network *WenXuan Ma ,Yong Yu,Jun Hu*	***2060***
20210590	Risks prevention and control of university online public opinion based on data clustering algorithm *Yuxiang Zou*	***2065***
20210591	Wild Mushroom Recognition Based on Attention Mechanism and Feature Pyramid *Zhigang Zhang ,Pengfei Yu, Haiyan Li,Hongsong Li*	***2071***
20210592	A Review on Transmission Control Strategies in Energy Harvesting Wireless Sensor Networks *Qinwen Duan , Xiangyang Liu*	***2076***
20210593	Research on Control Mode and Perception Model of Intelligent Railway Station Equipment Based on Edge Computing *Shen Haiyan, Shi Tianyun, Duan Jiaying, Yang Guoyuan, Cheng Qingbo*	***2085***
20210594	Research on Quadruped Gait Planning of Intelligent Robot *Fulong Deng, Hanwen Lai, Shicheng Gan, Qihui Zhang*	***2091***
20210595	Research and Implementation of Anti-interference Cluster Communication Technology Based on Competition-center Network *Haiwang Zhao*	***2096***
20210596	Design of Low-power Portable Multi-function Digital Oscilloscope *Xueli Zhou, Yuke Tian, Jie Shi, Na Zhao, Yu Yang*	***2101***
20210597	Simulation and Analysis of the Influence of Artificial Interference Signal Style on Wireless Security System Performance *Jing Mu, Xia Jia*	***2106***

20210598	Time synchronization method based on time interval measurement *ChenXiaomao, LiuChunfei, FanYiwei, GuoNing*	***2110***
20210599	Review of Dim Small Target Detection Algorithms in Single-frame Infrared Images *Ke Zhang,Shuyan Ni,Dashuang Yan,Aidi Zhang*	***2115***
20210600	Grape Diseases and Pests Named Entity Recognition Based on BiLSTM-CRF *Lihua Yan ,Shuqin Li*	***2121***
20210601	Based on the improved YOLOv3 under theCatenary Insulator Image Recognition *Xinhui Guo, Liuai Wu*	***2126***
20210602	Research on Improved Synchronous Perturbation Stochastic Approximation Algorithm Based on Double Calculation Step *Xin Zhang,Jin Zhang ,Hao Guo,Weiguang Zhao ,Yajuan Deng*	***2131***
20210604	Feature Extraction for Bearing Fault based onSingular Value Product Sequence of Sliding Hankel Matrix *Chengxu Liu,Ben Niu,Lin Liang*	***2135***
20210605	Obstacle avoidance based on skeleton for the redundant Manipulator *Lan Ye, Chao Sun*	***2140***
20210606	Twitter Rumor Detection Technology Based on Hierarchical Capsule Network *Wang Caiyun, Sun Xuemei, Rong Chuitian, Li Dong*	***2145***
20210609	Design of Temperature Data Acquisition and Information Processing System based on Mathematical Method *Xinwen Zhang, Weihuo Li*	***2150***
20210610	Based on the improved YOLOV3 small target detection algorithm *Fengling Wang,Junyu Su*	***2155***
20210618	Application of Improved Single Neuron Adaptive PID Control Method in the Angle Predefined Loop of Active Radar Seeker for Anti-radiation Missile *Fei Ma ,Juanzhi Lu ,Lin Liu,Yi He*	***2160***
20210619	The control method for rotating missile with three pieces of steering wings *Juanzhi Lu ,Feng Wang ,Jun Ma ,Zhiqiang Yan ,Lin Liu*	***2165***
20210622	Research on the Optimization Strategy, Model and Method of Station Deployment for Accurate Positioning in Communication Blind Zone *Lu Yulong, Shen Haiyan, Xie Yalong, Yang Xinglei, Yang Lingling*	***2170***
20210149	Design And Implementation of an Efficient Wireless Channel Simulator *Zhang Taotao, Tang Yunge, Qiao Huidong, Cui Jianling,Dong Shuli*	***2175***

20215678 The Online Exam System Research Based on the MVC Framework ***2179***
Bing Xu, Youcheng Liao