2018 IEEE International Conference of Safety Produce Informatization (IICSPI 2018)

Chongqing, China 10-12 December 2018

Pages 458-919



IEEE Catalog Number: ISBN:

CFP18P40-POD 978-1-5386-5515-3

978-1-5386-5515-

Copyright \odot 2018 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:
 CFP18P40-POD

 ISBN (Print-On-Demand):
 978-1-5386-5515-3

 ISBN (Online):
 978-1-5386-5514-6

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

11
16
20
26
31
36
42
47
5 3
57
62
i,

014-S020	Fault Diagnosis of Rotating Machinery Based on Multiscale Entropy Jibin Chang, Zhiming Dong	67
015-S021	Comparison and Analysis of the error of multiple Transceiver Mode of TOA based on Kalman filter in IR-UWB system Chen Jun, He Shibiao	71
016-S023	System Dynamical Simulation of Risk Perception for Enterprise Employee Zhao Yao, Zhang Mingguang, Song Jian, Zhang Ya	76
017-S024	Study on Law of Scenario Evolution Based on Accident Statistics of Hazardous Chemicals Transportation Xin Huang, Mingguang Zhang, Jian Wang, Jiarui Chen	80
018-S025	Application of Improved Particle Swarm Optimization Algorithm Based on GSO in Optimization Design of FIR Digital Filter Dong Hang, Xiaoyi Li	84
019-S026	Image Enhancement Based on InfoGAN for Target Tracking in Natural Gas Gathering Station Jianwei Luo, Guorong Chen, Xiaoxia Du, Hong Ren, Jie Li, Kai Zhuang	88
020-S027	Modeling of Soft Sensor Based on DBN-ELM and Its Application in Measurement of Nutrient Solution Composition for Soilless Culture Xiaogang Wang, Wenjin Hu, Kaishu Li, Lepeng Song, Luqing Song	93
021-S028	Study on Standardization of Electrolytic Trace Mois-ture Meter in Safety Construction of CNG Refueling Station Yudeng Qiao, Jun Peng, Wu Gao, Zuojin Li, Junchi Cai, Guochao Wu	98
022-S029	Application of Model-Free Adaptive Control in Managed Pressure Drilling Song Luqing, Hu Wenjin, Li Kaishu, Wang Xiaogang, Song Lepeng	102
023-S030	Multi-function Morning Wake-up System Junhui Lai, Guorong Chen	108
024-S031	An Intelligent Garbage Bin Based on NB-IOT Research Mode Peng Pan, Junhui Lai, Guorong Chen, Jie Li, Mou Zhou, Hong Ren	113
025-S032	An Efficient Hybridized Genetic Algorithm Kun Li, Liwei Jia, Xiaoming Shi	118
026-S033	Research on RFID Fault Diagnosis Method Based on SVM and PSO Algorithm Ren Hong, Chen Guorong, Liu Yao, He Hongli	122
027-S034	An Online Classroom Atmosphere Assessment System for Evaluating Teaching Quality Can Liu, Jike Ge, Dong Chen, Guorong Chen	127
028-S035	Analysis on Forming Defects of Automobile Drawing Parts and Adjustment Measures of Mold Liu Huagang, Hao Ruican	132

029-S036	Airspace Layout Methodology for Remote Support Jamming Wang Qinghao, Yao Dengkai	136
030-S040	Research on Key Technology of Emergency Communication System in Post-Earthquake Disaster Relief Chen Wu, Hao Zhang, Chunshuai Lv, Jinlong Song, Yuzhen Yin	142
031-S041	An Information Security Prevention System of Power Grid Enterprises Based on Artificial Intelligence Li Wencui, Wang Shiwen, Shu Xinjian, Liu Yan, Li Xiong, Dang Fangfang	148
032-S045	Application and Research of New Technology in Intelligent Substation Communication Zhang Xiaoyun, Li Wencui, Li Xiong, Wang Lei, Ren Yinlin	153
033-S046	Rapid Construction of Virtual Maintenance Training System Based on Unity3D Bai Weibing, Zhang Weixin, Hong Guang	158
034-S049	Research on Key Technology of VPN Protocol Recognition Jinhai Zhang	161
035-S050	Research on Ship Berthing Monitoring Technology Based on 3D Laser Point Cloud Data Tao Wang	165
036-S052	Study on Resource Management of Electric Oriented Fiber Cable <i>Ning Yu</i>	169
037-S053	Application Prospect of Raster Coding Technology in the Operation and Maintenance of Electric Optical Fiber Cable Hanwei Wu	173
038-S055	Transformer Fault Diagnosis System Based on Knowledge Node and FMECA Guo Yanxue, Gu Kaikai, Xu Jinxia, Zhou Zhengqin	177
039-S056	Research on Automatic Loading and Unloading System of Liquid Crystal Glass Substrate Wu Jingbing, Tong Pan	183
040-S057	Meter Fault Causes Separation Based on Cyclic Iterative Algorithm Xiaokang Liu, Yuexian Hou, Shengnan Zhang	188
041-S059	A Modified Road Centerlines Search Method from Remote Sensing Images Du Juan, Li Runsheng, Jin Fei	192
042-S060	Jump Point Search Plus Algorithm Based on Radar Simulation Target Path Planning Jiani Wang, Jianping Jiang	196
043-S062	Design of Smart Home Cloud Server Yang Li	200

044-S063	Authentication Technology of Mobile Internet of Things Based on the Dynamic Password	204
	Lili Wu, Chen Qiao, Tao Chen, Zhengmin Li	
045-S064	A Discriminant Method of Fault Lines Based on Empirical Mode Decomposition Ji Si, Li Tianquan, Chen Guangyu, Hao Sipeng	209
046-S065	Implementation of Energy Data Acquisition Gateway Based on OPC UA Jiaxu Shen, Yu Fan, Xiaofeng Yan	213
047-S066	Verification Experiment of Simulating the Effect of Quarantine Source on Isolated Switch Lin Cheng, Xiang Liu, Xiaoping Deng, Zhezhe Pan, Hang Zhou, Yong Zhu	219
048-S068	Research on Wireless Sensor Networks Localization Algorithm Bo Guan, Xin Li	223
049-S070	The Application and Research on Acoustic Emission Signal Detection Based on Wavelet Analysis Algorithm with DSP Xia Guanghui, Gou Weijie, Li Jinyi, Hu Wei	227
050-S071	Research on the Calibration of Amplitude Phase Consistency Based on the System of Multi-Mode Self-tracking Chen Kai, Wang Yu, Yao Xuelu	231
051-S073	Design and Implementation of Real Time Data Center Access Interface Based on Big Data Technology You Feng, Qin Junning, Zhang Keheng, Li Xianhui, Mao Haiquan, Zhao Yuxiao, Zhang Huayun, Zhou Sheng	235
052-S076	STPA Based Safety Analysis of Regional Data Center in CTCS-1 Train Control System Zhang Yong, Liu Shachen	240
053-S079	Wireless Signal Classification Based on High-Order Cumulants and Machine Learning Yongrong Zhang, Guannan Wu, Jian Wang, Qing Tang	246
054-S080	Denoising Processing of Heart Sound Signal Based on Wavelet Transform <i>Yang Yong</i>	251
055-S081	Satellite Link Analysis and Calculation Software Design Kai Xu, Dairuo Li	256
056-S082	Research on Network Security Attack Detection Algorithm in Smart Grid System Chao Zhou, Ziying Wang, Wei Huang, Yajuan Guo	261
057-S085	A Design and Implementation of CSSDS Proximity-1 Protocol Qiangqiang Mao, Chenghua Wang	265
058-S087	Research on UAV Time Delay Controller Based on Improved Smith Training Neural Network Lu Xinghua	270

059-S088	Flight Stability Control of Unmanned Aerial Vehicle Based on Micro Inertia Attitude Adjustment Lu Xinghua	276
060-S089	Automatic Contingency Selection Based on Aggregation Junjie Liu, Jun Liang, Zhihao Yun	281
061-S090	Methods of Resource Allocation with Conflict Detection Xin Li, Mengna Wang	285
062-S092	Clustering Analysis Based Modeling Method of Bridge State Anomaly Distribution Li Ji, Huo Lin, Tian Hong, Han Zhongtao	292
063-S095	Design of the Intelligent Quick Charger Yuanze Ma, Xiuxia Zhang, Shanli Zhang	296
064-S096	The Functional Safety Analysis and Design of Dual-Motor Hybrid Bus Clutch System Zhou Yaling, Guan Jing, Sun Hanwen	299
065-S097	Research on Electrical Fault Injection Experiments of Hybrid Electric Vehicle Controller Guan Jing, Zhou Yaling, Sun Hanwen	305
066-S098	Open domain news text relationship extraction based on dependency syntax Fang Miao, Huixin Liu, Bo Miao, Chenming Liu	310
067-S099	Securing the wireless environment of IoT Fanzeng Xia, Huancheng Song, Chunting Xu	315
068-S100	Design of Cloud Manufacturing Service System Zhuo Zhou, Minghai Yuan, Wenbing Gu, Xianxian Cai	319
069-S101	A New Information Model for Distribution Network Equipment Quality Control Zhi Li, Zhiyao Zheng, Gang Wu, Shaofeng Yu, Kai Wang, Jingbo Hu	323
070-S102	A Real-time Parallel Ray-tracing Method Based On GPU Cluster Ming Chen, Haifeng Huang	327
071-S103	The Research and Analysis of Big Data Application on Distribution Network Feng Xiaorong, Jia Shizhun, Mai Songtao	331
072-S104	Operation status identification and evaluation method of vibrating wire monitoring instrument He Hu, Zhu Zhaohui, Wu Xueyi	336
073-S105	Life Prediction of Electromagnetic Relay Based on Bayesian Method Jiang Wenman, Zhou Zhen, Qi Jia, Ma Dezhong	340
074-S110	A New Inspection Method to Diagnose Winding Material and Capacity of Distribution Transformer based on Big Data Zhiyao Zheng, Zhi Li, Yibo Gao, Qulong Yuan, Shaofeng Yu	346

075-S111	Exploration and Application of Sheet Metal Technology on Pit Package Repairing Yu Hui, Liu Huagang, Ma Jinru	352
076-S116	Accelerated rendering method based on area division Zuo Juan, Zheng Bin	359
077-S117	Study on Rapid Repair Technology of Leakage Defect of Sulphur Hexafluoride Equipment Liu Hang, Wei Gang, Zhang Haiyan, Wu Ke	363
078-S118	K-Coverage Algorithm Based on Network Model in Wireless Sensor Network Liwei Jia, Xiaoming Shi, Kun Li	367
079-S119	Automatic Acquiring of Chinese Semantic Relations Based on Knowledge Corpus Li Liang, Fang Tian, Fuji Ren	371
080-S121	Three-way Threshold Reasoning Based on Cost Objective Functions Fangyuan Yan, Zhenguo Du, Jianfeng Xu, Wenguo Wang	378
081-S122	The Compression Storage Research for Uniform Block Diagonal Matrix Ren Zhiguo, Hou Yongyan	382
082-S123	The Face recognition based on the sparse autoencoder Wan Huisong, Jiang Shuming, Wei Zhiqiang, Yang Guoli, Li Jian, Li Fengjiao	387
083-S124	Conception of QAR Data Application Mode Based on Virtual Integration Jingru Han, Yang Jiao	392
084-S125	Application of Power Grid Communication Operation and Maintenance Knowledge Base Based on Self-learning Technology Hu Youjun, Yu Ran, Wu Haiyang, Li Chao	396
085-S126	A Real-time High-speed Broadband Frequency Measurement System Based on FPGA Hailong Jia, Yi Wang, Yang Guan	403
086-S127	Grey Verhulst Model based on TLS and GA * Qiuping Wang , Yun Li, Yanting Xiao	406
087-S128	Econometric Modelling for Missing Weather Variables Estimation: Shinyanga Region of Tanzania Kulyakwave, P.D, Shiwei Xu, Wen Yu	411
088-S129	An Analysis on Household Expenditure in Rural Cambodia Sar Sary, Xu Shiwei, Yu Wen, Siek Darith, Sophannak Chorn	416
089-S130	The Impact of Labor Input on Crop Yield and Price in China Wen Yu, Meifang Lu, Shiwei Xu, Yaseen Muhhamad, Luqman Muhhamad	422
090-S131	Incremental local data backup system based on bacula Yang Chao, Xu Wen, Wu Guohui, Qi Xinge, Liu Sai, Zhao Lele	429

091-S132	Ethical Control within Systemic Accident Analysis Models Sakineh Haghighattalab, An Chen, Mohammadreza Saghamanesh, Sakineh Salman Mahini	433
092-S133	Design and Implementation of Emergency Cooperative Consultation System based on GIS Ya Ban, Hongjing Liu, Jing Yuan, Kun Liu, Hongying Liu, Rui Wang	437
093-S134	Intelligent On-site Multi-point Remote Cooperative Interaction System of Power Communication Network Ningzhe Xing, Meng Yu, Qi Qian, Wenxuan Yang, Long Chen	441
094-S135	Design and Implementation of Intelligent Wearable Operation Support System for Electric Power Production Environment based on Multi-source Information Fusion Technology Hongjun Du, Wei Li, Yining Gang, Ou Wang, Yuedong Hao	445
095-S140	Current Situation of Multimodal Corpora and the Method of Tibetan Corpus Construction Guangyan Li, Tian Fang, Li Liang, Benwang Sun	449
096-S141	Study on a Large-number of Heterogeneous Aeronautical Information Publication Collection Mechanism Rong Xiaohui, Guo Xianpeng	454
097-S145	Image Processing Methodology for Features Extraction of GRIN Lens End Wu Songlin, Zhang Min, Zhang Bo, Dang Lei, Yang Qian	458
098-S150	Research on Automatic Anti - skidding Technology of Vehicle Ice-snow Area Qi Cheng, Yong Liu	462
099-S151	Incentive Analysis of Power Failure in Distribution Network Based on Multi-source Data Fusion Li Zhong	466
100-S153	Agricultural Machinery Information Collection and Operation Based on Data Platform Chenggong Li, Yongwei Tang, Maoli Wang, Xiaojie Zhao	472
101-S155	Applied Correlation Coefficient to Diagnose On–Load Tap Changers' Operation Status Ming-Jong Lin	476
102-S158	Backtracking and Visualization Techniques for Financial Network Security Jaehan Jeong, Keunho Park, Wooyeon Jo, Taeshik Shon	480
103-S162	A Variation of Quicksort for Model Checking with Promela and SPIN Chu Luo, Yuehui Zhang, Xu Ma, Yanshan Tian, Zewen Xu	484
104-S164	Research on Network Performance Optimization and Application of Wireless Intelligent Routing Yabing Chen, Zhihao Zhao	489

105-S166	Multimedia Broadcast System Based on Embedded Platform Zhan Hualin, Li Xingxing, Ruan Xiuxiang	493
106-S169	Design and Implementation of a Portable Electronic Scale Zhan Hualin, Zhou Ping, Xiong Xiangxiang	497
107-S173	Analog Skeletal Muscle Drive Model Based on Digital Hydraulic Technology Jing Bai, Chaoran Yang, Zhanxi Wang, Jing Li, Xiansheng Qin	501
108-S177	Design of Marine Environment Monitoring System Based on Wireless Sensor Network Fugeng Zeng, Weisheng Li, Xinchen Guo	506
109-S178	DevelopmentofOfflineChatApplication:FrameworkforResilientDisasterManagementOliver M. Junio, Enrico P. Chavez	510
110-S180	M-band Wavelet Kernels for Classical and Quantum SVM Runlang Ma, Shangyi Li, Tong Liu, Xiaodi Wang	515
111-S181	Life Cycle Evaluation of the Power Supply Device based on State Prediction Jing Shengli, Xia Jianeng, Liu Hongzuo, Hou Jing, Yang Yan	522
112-S183	A Parallel JTAG-based Debugging and Selection Scheme for Multi-core Digital Signal Processors Xiaolei Hu, Yu Jin, Zhaolin Li	527
113-S185	Data analysis of traditional summative assessment and continuous assessment-Engineering Science Departments case study Yanxia Sun	531
114-S186	Design Fingerprint Attendance Machine Based on C51 Single-chip Microcomputer Zhan Hualin, Wang Qiqi, Hu Yujing	536
115-S187	Intelligent Model of Bidding Audit based on Text Mining Cheng Yingying, Zhang Li, Zhang Feng	540
116-S188	Development and Application of Virtual Collaborative Experiment Technology Based on Unity Platform Xia Luyao, Ding Honghai, Lu Jianfeng, Zhang Hao	546
117-S189	Research on the evaluation model of input and output benefit of enterprise distribution network based on fuzzy membership Liu Wei, Cui Yanyan, Chen Hai, Zhang Peng, Huang Yi, Yuan Shuai, Wang Yingtao, Qu Gaoqiang	551
118-S190	Application Research of ESO in Solving Parasitic Resistance in CPL System Jian Cui, Jiuhe Wang, Jianguo Li, Xiaobin Mu	555
119-S193	Image Emotion Recognition Based on Deep Neural Network Bo Li, Chen Guo, Hui Ren	561

120-S195	An Improved LSTM Structure for Natural Language Processing Lirong Yao, Yazhuo Guan	565
121-S198	The Model of Wind Power Short-Term Prediction Based on Artificial Fish Swarm Algorithm of Support Vector Machine Yang Zheng, Li Hong	570
122-S199	Research of Hybrid Rectifier with LCL Filter Feng Yuanpeng, Wang Jiuhe, Li Jianguo, Mu Xiaobin	575
123-S200	Fuzzy Wavelet Network with Feature Fusion and LM Algorithm for Facial Emotion Recognition Wenhui Shi, Mingyan Jiang	582
124-S201	Elevator Traffic Pattern Recognition Based on Density Peak Clustering Chen Benyao, Ruan Licheng, Ye Jian, Bian Jianzhong, Shi Shenke, Zhu Shaojun, Wu Maonian	587
125-S203	Application of Fuzzy Equivalence Relation Kernel Clustering Algorithm to Car Evaluation Yue Hao, Fengqiu Liu	591
126-S206	Discriminant Collaborative Representation based on Classification Tingting Shan, Mingyan Jiang	595
127-S208	Fuzzy-Based Lion Pride Optimization for Grayscale Image Segmentation <i>Wenyang Li, Mingyan Jiang</i>	600
128-S209	Joint Parameters Estimation method based on Wide-Band Ambiguity Function $Li\ Li$	605
129-S210	Ensemble Machine Learning Identification of Power Fault Countermeasure Text Considering Word String TF-IDF Feature Shaohua Sun, Zemei Dai, Xinkui Xi, Xin Shan, Bo Wang	610
130-S211	Power Fault Preplan Text Information Extraction Based on NLP Shaohua Sun, Zemei Dai, Xinkui Xi, Xin Shan, Bo Wang	617
131-S212	Optimal Fractional-order PID Control of Permanent Magnetic Synchronous Generator for Fault-ride Through Enhancement using Yin-Yang Pair Algorithm Liao hongkai, Luo Jia, Xiao li, Ouyang Chunming	622
132-S213	Vision-based Automatic Trunk Opener for Automotive Electronics Ching-Lung Su, Ming-Cong Lu	628
133-S214	Performance Analysis of Time Shifted Non-orthogonal Frequency Division Multiplexing and OFDM with Frequency Offset Mingyan He, Wenfei Liu	633

134-S217	KeyTechnologyResearchofDistributionAutomationSystemBasedonCloudArchitectureBo Que, Biaolong Su, Shiming Sun, Lei Chen, Mingyi He, Yanghao Zhou	637
135-S219	Designing and Optimizing of Sigma-Delta Modulator Using PSO Algorithm Lei Li, Ge Chen	642
136-S220	Recognize the Image of the Inscription at the Bottom of Purple Clay Teapot Using Improved Sift Algorithm Wenhui Sun, Jie Liu, Yichun Zhang, Qing Zhang	645
137-S224	Music Recommendation Based on Feature Similarity Huihui Han, Tao Yang, Xin Luo, Youqun Shi	650
138-S225	Application and Display of Hyperbolic Paraboloid Dengyuhui Li, Jixun Chu, Zhigang Zhang	655
139-S226	Curvature and Its Application in Huygens Isochronous Pendulum Cao Zixuan, Chu Jixun, Zhang Zhigang	661
140-S227	The Study on PMSM Fuzzy Control in the Marine Electric Propulsion System Quoc Dung Duong, Nam Phong Tran, Duy Thai Pham	667
141-S229	Geoacoustic Inversion Using Distributed Sensors Jingcheng Zhang, T. C. Yang	672
142-S230	Design and Research of Junior High School Physics Micro-Course Based on Knowledge Map Rui Wang, Xiaodong Yan	677
143-S231	The Design of A Computer Inspection and Management System for Multi-level Network Jianping Zhang, Hongmin Li, Mingmin Ke, Min Lu	681
144-S235	DOBBS: A Highly Available Distributed Block Storage Service for Virtual Machines Ran Li, Haopeng Chen	685
145-S238	A FPGA-based Low-latency Multi-channel Video Network Transmission System Design Jun Lu, Yao Ding	690
146-S239	Energy Efficiency Optimization in OFDM Power Telecommunication Networks Meng Yin, Sihang Zhao, Fanbo Meng, Bin Lu, Zhigang Qi, Daosheng Li	694
147-S241	Research and Implementation of Centralized Data Distribution Module for Super Base Station Zeng Hao, Hu Zhengquan	699
148-S244	A UI Decoupling Framework for iOS Applications Xuhui Sheng, Chuanchang Liu, Zhiyuan Su	703
149-S245	E-commerce Platform Based on Multi-distribution Pattern Lingli Meng, Chuanchang Liu, Zhiyuan Su	707

150-S246	Hidden Wi-Fi Auto-connecting System Based on Android ROM-Level Fu Zou, Chuanchang Liu, Zhiyuan Su	711
151-S247	The Diversity Layout of E-commerce Applications Based on Android Yi Liu, Chuanchang Liu, Zhiyuan Su	715
152-S249	Application of Alarm Information Statistical Analysis Based on Protection and Fault Information System Cui Yu, Wu Yi, Du Yunlong, Xu Ning, Zhang Tianxia, Wang Limin	719
153-S252	Fast Intra Candidate Selection and CU Split in Intra Prediction for Future Video Coding Chen Li, Congrui Li, Junwen Liu	723
154-S255	Status Recognition of Isolator Technology Based on Substation Inspection Robot Minhao Hu, Haibin Wang, Qi Wang, Wei Yang, Ming Gao	728
155-S257	An Application of Agent-based Multi-Objective Genetic Algorithm Shi Lianshuan, Hou Wenren	733
156-S258	Research on Safety Assessment of Military ATC system Based on Fuzzy Matter-element Model Liu Pingni	737
157-S259	Research on Adaptive Switching Power Supply Control Technology Zhang Hong, Xu Jian, Zhang Liang, Yi Fei, Chen Jiong	742
158-S261	Design and Implementation of Real-time Tracking Monitoring and Warning Platform for Meteorological Information in Central Tibet Xu Kehang, Tang Jun, Tan Yuanyuan, Li Hongyun	746
159-S262	A Study on Distribution Characteristics of Heavy Precipitation in the Regions Supplied with Electric Power in Central and Eastern Tibet Li Yuan, Xiao Tiangui, Liu Sunjun, Xie Junhu, Bian Ba, Xiao Yong	750
160-S265	A Bibliometric Analysis on Face Recognition Technology Research Junfeng Yu, Yanqing Zhao, Shiwei Zhu, Aiping Wang, Yan Wang	755
161-S266	Design of A Data Analysis System for the Grain Processing Loss Fan Liu, Kang Zhou	760
162-S269	Monitoring and Control for Hundreds Megawatt Scale Battery Energy Storage Station Based on Multi-Agent: Methodology and System Design Yue Li, Xiangjun Li, Xuecui Jia, Rui Ma, Dong Hui	765
163-S271	The Special Φ40mm Tube Distributing Hole Drilling Equipment Used in Electrostatic Precipitator Design Wan Hongqiang, Ge Shuai, Zhang Simiao, Han Peiying, Li Fancong, Cai Hengjian	770
164-S272	Visual Construction Algorithm of Attack Path Based on Medical Sensor Networks Hanhe Zhang, Shigong Kang, Yijie Li	775

165-S277	Understanding the Differences Behind One Step and Two Steps Strategies in Speech Quality Evaluation Wei Wei, Wang Jing	780
166-S278	Design and Control of Small Mobile Phone Automatic Film Pasting Machine Wan Hongqiang, Han Peiying, Zhang Simiao, Ge Shuai, Duan Yu, Zhang Chi	784
167-S280	An Attribute Reduction Based on Genetic Algorithm and Rough Sets Huang Song, Qiu Jianlin	788
168-S281	A File Protection Scheme based on the Transparent Encryption Technology Wei Liu, Dong Li	793
169-S285	IPv6 Security Test Model Research based on Cloud Computing Environment Jing Zhong, Wei Liu	796
170-S286	Research on the Method of Operational Plan Recognition Driven by Big Data in Battlefield Awareness Changhua Yao, Kai Cheng, Xian Zhang, Zhiteng Wang	800
171-S287	A Research of Character Recognition Based on Residual Neural Network Tong Li, Tong Li, Yuxin Zhu, Yongyu Zhou, Hongwei Zhao	804
172-S288	Binary Software Randomization Method Based on LLVM Bo Wu, Yufeng Ma, Linna Fan, Fengchen Qian	808
173-S289	Clustering of Short Text in Micro-blog Based on K-means Algorithm Mao Xingliang, Li Fangfang	812
174-S291	Software Anti-Interference Technology of Single Chip Microcomputer Control System Wang Ying, Liang Kai, Liu Qi, Li Shuo, Li Tingting, Liu Jinran	816
175-S293	Research on Multi - feature Web Image Clustering Algorithm Yehong Han	821
176-S294	Research on the Key Technology of Ship VHFDSC Wireless Communication Network Hongrui Chen	825
177-S296	Design of Real-Time Communication Social Software Based on XMPP Xiao Dawei, Jiang Liqiu	829
178-S299	Structure Design and Research on Li Yongmei, Tang Wencheng, Xu Yi Pipeline Robot of Variable Diameter	834
179-S300	Bit Error Performance Analysis of OCDMA Zeng Yanqing, Yin Shuhua	840
180-S302	Distributed Database Load Balancing Prediction Based on Convolutional Neural Network Xuanni Huo, Zhongshu Bo	844

181-S305	Deep joint super-resolution and feature mapping for low resolution face recognition Ning Ouyang, Xianao Wang, Xiaodong Cai, Leping Lin	849
182-S307	Application of the Improved RBFNN Based on DPC in Monthly Rainfall Forecasting Linli Jiang, Chunmei Wu	853
183-S308	Multiple Miniaturized Robots Boundary Coverage with Recurrent Network Connectivity Ling Mao, Can Wang, Zhenbo Li	858
184-S310	Hybrid Intelligent Algorithm for Solving Matrix Game with Fuzzy Variables $Lin\ Xu$	863
185-S311	Dynamic Weighting Multi Factor Stock Selection Strategy Based on XGboost Machine Learning Algorithm Li Jidong, Zhang Ran	868
186-S313	LCBNI: link completion bipartite network inference for predicting new lncRNA-miRNA interactions Zhenkun Yu, Fuxi Zhu, Gang Tian, Hao Wang	873
187-S314	Circle-Marker-Based Machine Learning Positioning Algorithm with Single General-Purpose Camera Cheng Zerui, Huang Zizhao, Sun Zihan, Cai Zhigang, Wang Jiahui	878
188-S316	A Formal Proof of Two Properties of Laplace Transform Yifei Wang, Gang Chen	883
189-S319	Application software front-end modeling, verification and case based on the Interface Window Tree Yuelei Li, Jianghua Lv, Shilong Ma, Qianchen Xia, Qiqige Wuniri	888
190-S321	SDR Reception and Analysis of Civil Aviation ADS-B Signals Xiangjun Su, Jing Zeng, Jingui Li, Sheng Hu	893
191-S324	Real-time Hardware Implementation of Stereo Image Rectification with Calibrated Cameras Haoyu Wang, Yanzhe Li, Luc Claesen	897
192-S327	An Advanced k Nearest Neighbor Classification Algorithm Based on KD-tree Wenfeng Hou, Daiwei Li, Chao Xu, Haiqing Zhang, Tianrui Li	902
193-S333	A Weighted Fuzzy Rough Nearest Neighbor Classification Algorithm Based on Multiple Interpolation and Similarity Attribute Analysis Chao Xu, Daiwei Li, Haiqing Zhang, Wenfeng Hou, Tianrui Li	906
194-S339	Robustness analysis of neutral BAMNN with time delays Chunmei Wu, Linli Jiang	911

-