2023 5th International Conference on Electronic Engineering and **Informatics (EEI 2023)**

Wuhan, China 30 June - 2 July 2023



IEEE Catalog Number: CFP23V81-POD ISBN:

979-8-3503-0431-2

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:
 CFP23V81-POD

 ISBN (Print-On-Demand):
 979-8-3503-0431-2

 ISBN (Online):
 979-8-3503-2707-6

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

A Temperature and Voltage-Insensitive Ring Oscillator	
Tianting Zhao, Yue Zhuo, Xin Yang, Yuchen Wang, Qing Miao, Fangchao Lou, Zhiqiang Liu, Tianzhi Li	1
A Galvanic Isolated Full Bridge Rectifier with Adaptive Zero Current Control	
Tianting Zhao, Yue Zhuo, Xin Yang, Yuchen Wang, Qing Miao, Fangchao Lou, Zhiqiang Liu, Ning Cheng	5
Research on N4 Interface Decoupling Test	10
Aihua Zhang, Peng Wang, Yuanyang Yin	10
Active Quenching and Reset Circuit for Geiger Mode Avalanche Photodiodes	15
Wanwan Xing, Anqi Hu, Xingye Zhou, Xia Guo	13
Design of Strip-Loaded Directional Coupler	16
Cuilian Song, Yuchao Ma, Hui Ma, Huiyan Liu	19
Substrate Integrated Waveguide Wideband Bandpass Filter Based on Spoof Surface Plasmon Polariton	23
Qiaochu Li, Shan Wu	
Research on Home Energy Consumption Prediction Method Based on SSA-VMD-LSTM	27
Jiaojiao Qiao, Dongming Song, Rui Jiang, Wujun Hao, Chunhao Liu	21
Realization of Parallel Distributed Temperature Sensor Network Based on Field Programmable Gate Array	33
Binyu You, Shiwei Feng, Zhanwu Yao, Xianliang Lv, Yaning Wang, Yinqi Zhou	
A 12Bits Segment SAR ADC with Low Power Switching Method	37
Boyi Xie, Qianqian Lei, Zhe Zhang, Qihang Liu, Yanfei Yang, Song Feng	37
Data-Efficient Pin Defect Detection with Transformer in Transmission Lines	
Wenqi Huang, Qunsheng Zeng, Yang Wu, Zhuojun Cai, Ruiye Zhou, Jianing Shang, Lingyu Liang, Xuanang Li	41
SVDD-Based Evaluation of Rolling Bearing Performance Degradation	16
Yanan Li, Gaoyang Xie, Liqing Fang, Ziyuan Qi	45
Research on Video Surveillance Security System Based on Domestic Password	49
Bin Hu, Jingye A, Ping Ma, Yue Wang, Hao Yang	49
Sliding Mode Speed Control Strategy of Permanent Magnet Synchronous Motor with Disturbance Compensation	55
Rui Jing, Chao Du, Yongsheng Shi	
Research on Improvement of Low Voltage Crossing of Isolated Island Permanent Magnet Wind Turbine	63
Zhixian Jiang, Wenna Zheng, Jinguan Zhao	

Design of a Compact Calibration Platform for Characterization of Tunneling Magnetoresistive Sensors under Varying Temperatures	69
Sen Qian, Hui Huang, Chuan Chen, Jinghong Guo, Liang Li, Hengchao Sun, Xianguang Dong, Yanling Sun	69
Study on Influence of Impedance Parameters of Multiplier Element in Equivalent Model of Wind Farm	73
Hanyue Wang, Jianzhong Xu	
Time Domain Modeling and Simulation of Direct Current Solid-State Transformer	78
Danying Lin, Jianzhong Xu, Ruiming Zhu	76
Design and Motion Performance Study of Wood Hanger Imitation Processing Device	83
Jiabin Xie, Yanhui Chen, Qixing Deng, Cheng Tan	03
Research on Stress Delamination Characteristics of Aluminum Conductor Steel Reinforced Considering Radial Temperature Difference	88
Wenna Zheng, Zhixian Jiang, Chi Xu, Jinquan Zhao	
A Novel Bipolar Direct PWM Controlled Buck-Type AC/AC Converter	02
Jingbo Yang, Renzhong Shan, Shengli Huang	93
Design and Layout Realization of Power MOSFET in Switching Power Supply	2.2
Qiaowei Zhu, Tao Zhang, Jiaxiang Wang, Yang Cheng	99
Design of Memristor High-Pass Filter Circuit	104
Zelong Liu, Tong Li	104
A 25-40 Ghz Low Conversion Loss Passive Ring Mixer in a 45 Nm CMOS Silicon-On-Insulator Technology	108
Jie Li, Kai Men, Bo Zhang	
Hydraulic Turbine Regulation Based on Robust D Stability Control	112
Yu Lin, Cheng Zhong, Yuhuang Jia, Yuchang Mo	112
A Digital Monitoring System Based on Pressure Sensor Array for Manipulation under Anesthesia	117
Qihai Jiang, Cong Wang, Weiliang Shen, Huan Hu	
Enabling Transcranial Electrical Stimulation Via STI01: Experimental Simulations and Hardware Circuit Implementation	122
Guanjie Xu, Gaomin Su, Hao Fang, Yue Li	
Research on the Control Strategy of Bidirectional DC-DC Converter for Battery Formation and Grading System	127
Yuanhao Wang, Xiaohui Huang, Baixuan Qi, Ning Pan	
Three-Stage Split Capacitor Array with Redundancy for an 18 Bit SAR ADC	132
Guoao Wang, Zongmin Wang, Tieliang Zhang, Zhaohang Bing	132

Optimization of JSP Based on Particle Swarm Algorithm with Oscillation Regulation Mutation	139
Lingyu Yin, Zhao Xiong, Haiping Chen, Chengcheng Wang	
Walking Pattern Generation of an Unrooted Redundant Robot	144
Peng Wu	144
Simulation Study on the Characteristics of Planar Gate VDMOS Power Devices	149
Yao Li, Ailing Wang, Fenqiang Wang, Jun Lan, Ruixia Niu, Pengjie Zhang	149
Fixed-Time Formation Tracking Control for Multiple Unmanned Surface Vessels	155
Bowen Sui, Jianqiang Zhang, Yan Li, Yuanyuan Zhang	155
Disentangling Ensemble Models on Adversarial Generalization in Image Classification	162
Chenwei Li, Mengyuan Pan, Bo Yang, Hengwei Zhang	162
Design of a Zero-Current Switching Battery Equalization Circuit Based on Switched Capacitors	166
Xin Zhao, Kun Li, Yuzhe Liu	
A Service Component Migration Method to Maintain VM Performance	170
Yuequn Gao, Yancheng Zhao, Jinlin Guo	170
Simulation and Analysis of High Frequency Harmonic Components of Voltage and Current of Converter Transformer in Flexible DC System	181
Zhen Hao, Guangwei Liu, Jinghang Zhao, Boyan Liu, Ka Mu	
Indoor Human Target Detection Based on Wifi and Programmable Intelligent Surface	188
Peng Bai, Jingjing Yang, Ming Huang, Dongsheng Lu, Sizhu Chen	100
Design and Implementation of Intelligent Security System in Kindergarten	193
Hongli Zhou	173
Joint User Association and Resource Optimization for Multi-Cell NOMA Networks	199
Dacai Wei, Fei Du, Jiayan Liu, Xiongwen Zhao	199
Black-Box Modeling of Electromagnetic Interference Effects and Key Port Determination Method in Electronic Systems Based on Bayesian Networks	204
Zhangjie Han, Zhongyuan Zhou	
A Q-Learning Routing Algorithm Based on Software Defined Networking Platform	209
Pingliang Yuan, Zhengru Bao, Liandan Wang, Ding Gao, Yutong Wang, Qian Qu, Beilun Li	209
Edge Computing Task Offloading for Power Iot Network	213
Wenjing Lan, Suiyan Geng, Xinru Wang, Cheng Zhong, Yang Lu, Xiongwen Zhao	213
A Novel Grid Track Fast Matching Method	218
Jingming Sun, Qiang Zhang, Shengkang Yu, Yuhao Yang	210
Design and Implementation of Configurable UART with Self-Test Function	222
Yuelun Zhang, Zongguang Yu, Xiaogang Yang	222

Intrusion Detection for Internet of Things Networks Using Attention Mechanism and Bigru	227
Yalong Song, Dalong Zhang, Yitong Li, Shijie Shi, Pengsong Duan, Junfei Wei	227
Microlens Fluorescence Imaging System and Registration Algorithm for Rapid Cell Detection	231
Xuanbo Wang, Ningmei Yu, Zhifeng Li, Guanglin Zhou, Jiaqi Bai	
Design of the Scientific and Technological Information Management Software	225
Yonglin Guo, Guoxing Li, Guowang Zhang	235
Big Data-Driven Active Optimization Algorithm for Grid Fault Disposal Plan Assisted Decision Logic	240
Hebin Jiang, Junhong Guo, Yanlin Cui, Bo Zhou, Zhangguo Chen	
Power Information System Alarm Noise Reduction Technology Based on Graph Theory and Information Entropy	244
Junwei Chen, Zhenhui Liu, Zhen Han, Kaimin Chang, Guorui Hu	
Research on Lightweight	
Based on SSD Fatigue Driving Detection Algorithm	249
Qiyang Deng, Ying Wang, Tong Su, Zhenkun Wang, Wenpei Hou	
Research on Spoofing Detection of GNSS/INS Tightly Coupled System Based on Skewness Test	254
Fang Xie, Honglei Lin, Jing Yu, Weihua Mou	
Design and Construction of Multi-Source Satellite High-Frequency Power Grid Fire Risk Monitoring and Early Warning System	262
Qiang Fan, Huan Huang, Jianrong Wu, Wei Niu, Qili Zhang, Yizhao Zhang	
Multi-Entity Interactive Operation Strategy of Vehicle-Station-Net Driven by Intelligent Network Data Fusion	269
Jun Hu, Yucheng Hou, Shaotang Cai, Shuoqi Ma	
Research of Safety Management System for Hydropower Station Based on 5G Technology	274
Qiu He, Yuanlin Luo, Jia Zhu, Wenlong Fu	2/4
Design of Truck Ultra-High Warning System Based on Radar Detection Technology	278
Ruihou Mu, Shifeng Yang, Jie Gao, Hongtong Shi	276
Optimal Design of a Multi-Port Continuous Microwave Drying System	282
Tao He, Dan Li, Boyu Li, Ziqin Wang, Fengxiu Li, Zhengming Tang	202
Research on Mode Stirred Microwave Thawing Based on Implicit Function Method	287
Boyu Li, Tao He, Dan Li, Ziqin Wang, Zhengming Tang	207
Suppression Method for PAPR in TDCS Based on Convex Set Mapping and Peak Reduction	292
Yijun Mo	272
A Method of High-Speed Parallel CRC Computation	298
Zhixiong Zhou, Rui Wang	270

Hardware Design and Optimization of Polynomial Multiplication for Post-Quantum Cryptography Algorithm Based on NTT	304
Xianwei Gao, Zishan Tian, Lian Xue	
Design of Communication Countermeasures Blue Team Operation Based on Case Knowledge	309
Zixuan He, Bo Liu, Yong Wang, Yejun Li	
A Bit-Interleaved Coded Modulation Scheme Based on the Polar Code in Underwater Acoustic OFDM Communication System	316
Meiqi Wen, Chuanlin He, Siyu Xing	
Research on Optimal Operation of PEDF System Based on Improved Choa	322
Wenjun Tang, Zhenshang Wang, Yuming Zhao, Jing Wang, Yi Qin, Guibin Liao	322
Uplink Channel Estimation for Intelligent Reflecting Surface Aided Wireless Communication Systems with Condition GAN	328
Yuqi Li, Jiayi Chen	
Verification and Testing System for Local Interconnect Network Bus	
Po Gao, Dejian Li, Yanxin Zhang, Lang Tan, Lixin Yang, Bin Niu, Zhenhai Ning, Longlong He, Shengli Yan	334
Scaled Iot Intrusion Detection Model Based on Improved PSO Algorithm Optimization	340
Yongrui Wang, Han Yang, He Liu, Haoyang Dang	340
Design of Data Receiving System of DC Electric Device Based on MATLAB	345
Xinyue Wang, Yongheng Zhang, Yujin Huang	343
Optimization Scheduling Method for Remote Upgrade of Massive Power Terminals Based on Automation	350
Shan Jin, Fuman Zhou, Huamin Zhang, Jian Xue	
Robust Watermarking Algorithm Based on DCT Two-Dimensional Histogram Shifting	354
Yucheng Liang, Yingnan Zhang, Yifei Meng, Ke Niu, Shuo Zhang	334
Compound Weighted Evaluation and Optimization of Intelligent Tracking Algorithm in Radar Seeker	360
Kaiyu Hu, Zhaoyang Wang, Yuqing Cheng, Jiaming Wang	
Study on Distribution Characteristics of Evaporation Duct for Electromagnetic Wave Propagation	365
Haichuan Tang, Yu Zhang, Hua Wang, Xiangjun Yu	
Time-Varying Millimeter Wave Channel Modeling Based on LSTM	371
Lujia Yu, Fei Du, Xiongwen Zhao, Suiyan Geng	3/1
Multi-Ant Colony Based Qos Networking Algorithm for Hybrid Power Line and Wireless Communication Networks	376
Bo Long, Fei Du, Xiongwen Zhao, Wei Bai	

Edge Detection Algorithm for Power Operation Monitoring Video Based on AI Technology	381
Jinzhu Liu, Ziliang Ma, Xuanwei Zhang, Sida Ma	361
Quality of Service Based Resource Management for Rotating Phased Array Radar	295
Jingbei Yang, Yuanli Feng, Junpeng Yu	385
Cross-Polarization Interference Cancellation in Satellite Communication	201
Peng Zhao, Ning Chen, Yinqiao Li, Chang Feng	391
Research on Ultra -Wideband Indoor Positioning Base Station Location Based on Improved Particle Swarm Optimization Algorithm	396
Rui Xue, Zedong Liang	
Fading Channel Prediction Based on Attention Mechanism	400
Wenjing Zheng, Zhiyong Liu, Yawei Yuan, Jun Li, Bo He, Fei Lin	400
A Novel Coherent Integration Method for Random Frequency and PRI Agile Radar	405
Zhihao Lin, Ju Wang, Xuanyu Xu, Song Duan	405
Research on Power Equipment Status Detection Based on Deep Learning	409
Yude Bao	409
Electromagnetic Transient Modelling Approach for the Doubly-Fed Induction Generator	413
Yan Wang, Jianzhong Xu	413
Attenuation Characteristics of High Voltage Power Line Communication Channels for Underground Pipe Gallery	417
Guangbin Chu, Wei Bai, Bo Zhu, Fei Du	
Wireless Channel Scenario Classification Based on ISODATA	421
Siyuan Tan, Lingjin Kong, Xiaoying Zhang, Yunjie Yuan	421
Unsupervised Learning-Based Resource Allocation for Cognitive Radio Networks	426
Yang Yu, Yinchao Ge, Jiangcheng Zhang, Quanwen Fang	426
Marine Radar Small Target Classification Based on Normalized Time-Frequency Image and Residual Network	430
Jingyi Li, Penglang Shui	
Application of VR Technology in Interactive Virtual Clothing Feature Extraction	436
Mingzhu Song, Zhaoxin Cui, Jiayi Ni	
Security Signaling Optimization in Optical Network for Smart Power Station	440
Chang Luo, Hailiang Gu, Lihai Wu	
A Design of Conformal Type Helicopter Shortwave Antenna	445
Jundong Chen, Xiaojian He, Xiaohua Chen, Xuehan Zhou	
A Formal Design of Parallel CRC Circuit	449
Yuchen Nie, Fangfei Cai, Keran Zhang, Sheng Zhong, Hangzai Luo	449

Electromagnetic Self-Compatibility Simulation of Air-To-Ground Missiles with Multiple Antennas	453
Ping Li, Shi He, Hongxing Zheng, Yugang Li	
Research on Dual Band Covariant Correlation Fusion Radar Fuze Detection Method	157
Qianyu Wang, Lingyi Wu, Xi Pan	457
Non-Cooperative LEO Satellite Orbit Determination Using Pseudorange Based on Single Station	463
Ruofan Deng, Honglei Qin, Guangting Shi	
Path Planning of UAV Crossing Dense Obstacle Area Based on Improved Dynamic Window Approach	468
Wenfei Wang, Le Ru, Bo Lu, Shiguang Hu	
Doppler GDOP Lower Bound for Different LEO Constellations of Opportunity Positioning	474
Danyao Wang, Honglei Qin, Enfei Piao	4/4
A Cell-Free Millimeter-Wave Channel Estimation Algorithm Based on Federated Learning	480
Xinyue Zhang, Xuelin Dong, Min Shen	700
A Method and Apparatus for Quantitative Characterisation of Amplifier Application Characteristics	487
Sijin Li, Wenyan Wang, Li Ji, Leihao Zhang, Ru Wang, Zhiqiang Wang, Yuxin Yang, Hongwei Zhang	407
Flexible Beamforming for Millimeter-Wave UAV Communications with Power Distribution	493
Jingyi Peng, Yuhong Wang	493
An Improved EMD Algorithm for Self-Adaptive Adjustment of Reference Point Position	497
Xilin Li, Dongxin Li	497
Research on Voice Wake Based on Depthwise Separable Convolutional Neural Network	501
Rui Liu, Penghao Wang, Lin Zhou, Youxi Luo	301
Multi-Target Instance Segmentation and Tracking Using Yolov8 and Bot-SORT for Video SAR	506
Shangqu Yan, Yaowen Fu, Wenpeng Zhang, Wei Yang, Ruofeng Yu, Fatong Zhang	
Impact of Back-End Port Cables on Storage Read/Write Performance	511
Haixia Wang, Zhiqin Huang	311
Research on End-To-End Reliability Evaluation Index System of Power Backbone Optical Communication Network	515
Songping Xue, Dequan Gao, Zejing Guang, Liangsong Zhang, Wenjie Yao, Dawei Zhang	
Design of Graphene Frequency Reconfigurable Antenna in Terahertz Band	521
Ying Wang, Zhonghua Guo, Chunshu Li, Xiang Yan	321

Design of Mobile Phone Back Clip for Field Emergency Communication Based on Beidou Short Message	526
Songyi Wang, Yunfei Du, Xiangzhu Hou, Xinming Huang	
Effect of Permeability on Magnetoelectric Effect	526
Xiaoxia Liu, Liwen Zhang, Jiawei Xu	536
Metric Learning-Based Neural Network Model for Electromagnetic Compatibility Fault Diagnosis: An Application Study	542
Xiangguo Shen, Zhongyuan Zhou	
Joint Device Association and Trajectory Optimization for Multi-UAV Enabled Power Transmission and Distribution Scenarios	546
Haoran Sun, Suiyan Geng, Jiayan Liu, Zhiyu Chen, Hongxi Zhou, Xiongwen Zhao	
Combination of Non-Uniform Constellation and Rate Matching for 5G New Radio	551
Shuang Zhang, Xu Zhao, Dejian Li, Yubing Zhang, Han Liu, Zhenghao Li	331
Wavelet Change and Convolutional Neural Network Based Power Quality Online State Estimation Method	556
Ke Liu, Laijun Chen, Nanfang Li, Jian Yang, Jun Han, Xiaoling Su	
Data Association for Multiple Radar Targets Using Graph Neural Network	562
Chun Wang, Yuhao Yang, Qiang Zhang	302
Research on Straightness Detection Algorithm of Guide Rail Based on Laser	566
Ruixiang Gao, Hefei Fang, Ying Su	300
Parameter Estimation of LFM Signal Intercepted by Synchronous Nyquist Folding Receiver Based on Instantaneous Autocorrelation	570
Xinqun Liu, Jiajun Bai, Jinlin Peng	
A Low Signal-To-Noise Ratio DSSS Signal Acquisition Method Using Traversal Method to Eliminate Data Modulation	575
Xiaojuan Han, Jianhuan Wang, Qi Cheng, Wei Shi	
Differential Diagnosis Method for Interlocking Faults in Distribution Networks Containing a High Proportion of Distributed Power Connections	580
Yiming Han, Jianfeng Gong, Bin Zhang	
Design of Low Power High Stability Constant Current Source System	584
Wenjie Wang, Xinding Zhang	304
Knowledge Map Construction of Multi-Source Heterogeneous Power Grid Data Fusion in the Power Internet of Things Environment	589
Xixiang Zhang, Qi Meng, Hanhua Huang	
LSTM Model Was Used to Predict the Onset Time and Trend of Alzheimer's Disease	598
Fengsen Dong, Yanzhao Wang, Junhao Liang, Yingzi Chen, Guohua Qin, Weiwei Li	390

Construction and Evaluation of Risk Prediction Model for Alzheimer's Disease: Application of Regression Analysis Methods	602
Yanzhao Wang, Fengsen Dong, Hui Qi, Yingzi Chen, Weiwei Li, Guohua Qin	
An Image Processing-Based Approach for Fuzzy Image Recognition	607
Zhenyu Song, Tao Liang, Bin Zhang, Mengyi Zhao, Lvxing Zhao, Xiangmin Ren	607
Latency Characteristics Analysis of Express Frames in TSN Frame Preemption	612
Yingli He, Hongwu Ge, Xiaoyan Qi, Huisheng Gao, Huixuan Wang, Dongsheng Han	012
Edge Computing Based Traffic Identification in Elastic Optical Networks for Smart Power Grid	618
Zhiang Du, Xiukun Pang	
Improvement of Threshold Function Based on Wavelet Transform for Denoising ECG Signals	623
Yuyi Lu, Baosheng Lian	
Short-Term PV Power Prediction Based on NGO-BILSTM	628
Jie Liu, Lanmei Cong, Hanchao Zhao, Ziyue Han, Zhengjie Li	028
Mel Spectrum Feature Recognition Based on Adaptive Center Frequency	633
Yan Huang, Xiaopeng Kong, Minzhang Xu	033
Beam Based RAN Slicing and Tenant Profit Optimization	637
Xiao Fu, Xinrui Gong, Xiaofeng Liu, Rui Sun, Qingguo Shen, Xiqi Gao	037
Cartesian Authentication Codes with Arbitration Based on Cross-Product	642
Jinlong Liu, Ziwei Li, Xue Han, Tingting Wang	042
A Single Aircraft Intelligent Passive Location Processing Algorithm for Slow Moving Emitter	646
Siqiang Ma, Xu Yang, Chao Peng, Zheyu Zhang	
Design and Performance Analysis of a Novel HQAM for Telecommunication Systems	652
Zhanyang Zhou, Yingtao Niu, Boyu Wan, Peng Xiang	032
A Method for Radar Time-Frequency Image Data Detection Based on an Improved Yolov4 Network	660
Jian Zhang, Zhiyong Song, Ping Wang	
Doppler Positioning Based on Globalstar Signals of Opportunity	666
Yu Zhang, Honglei Qin, Guangting Shi	000
Distribution Network Fault Work Order Prediction Based on Improved Lstnet	670
Yaxi Yang, Ying Shi, Yonghao Bian, Xinyu Long, Yu Shi, Ze Wang	0,0
Remote Sensing Identification of Easily Floating Objects along Transmission Channels Based on Improved Unet	675
Zhi Yang, Sihang Zhang, Xiaojun Dou, Bin Liu, Binbin Zhao, Shengtao Wei, Yi Liu, Mengxuan Li, Jingshan Han, Bin Zhao	073

A Security Posture Prediction Method for Power Networks Based on Extreme Learning Machine	680	
Jun Ma, Qian Xu, Miaojie Zou, Jiong You		
Multimodal Knowledge Triple Extraction Based on Representation Learning	684	
Guangming Xian, Wencong Zhang, Fucai Lan, Yifan Lin, Yanhang Lin		
A New Type of Optical Power Meter Based on Silicon Photovoltaic Cells	690	
Yin Huang, Zhongyuan Lai, Hui Lan, Jinshan Sun		
TCAM-Hash: A Combined Routing Lookup for Network Applications		
Keran Zhang, Wenjun Huang, Nailiang Kuang, Sheng Zhong, Yong Liang, Hangzai Luo	694	
Line Loss Calculation Method Based on Improved K-Means Algorithm and LSTM for Low-Voltage Stations Area of Distribution Networks with Dgs	699	
Yuanzhu Fan	0,7,7	
Efficient Management of the Waiting Queen		
Xuefeng Li, Lin Li, Mingdao Xu	704	
Y-Net: Convolutional Networks for Multi-Domain Image Segmentation	7 00	
Fenyong Li, Yizheng Lin, Xiangmin Li, Yuping Yang, Lihua Huang	709	
Author Index	714	