2023 3rd International Conference on Neural Networks, Information and Communication Engineering (NNICE 2023)

Guangzhou, China 24-26 February 2023



IEEE Catalog Number: ISBN: CFP23DU3-POD 979-8-3503-3598-9

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:	CFP23DU3-POD
ISBN (Print-On-Demand):	979-8-3503-3598-9
ISBN (Online):	979-8-3503-3597-2

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

Traffic Track Dynamic Data Analysis Based on BP Neural Network Model	1
Yue Zhang, Dongyan Dong, Junlin Sha	1
Study on MRI Slices-based Lightweight Neural Network in Alzheimer's Disease Detection	5
Qiongmin Zhang, Ying Long, Hongshun Cai	5
Session-based Recommendation with Temporal Graph Neural Network and Contrastive Learning	10
Xiaolong Li, Xiaoru Wang, Haoxiang Zhang, Jiabin Zhang	10
Polynomial Improved Convolution Kernel Graph Network For Fault Diagnosis	15
Huang Zhang, Zili Wang, Lemiao Qiu, Shuyou Zhang, Gaopeng Yang, Feifan Xiang	15
A Channel Attention based Large Kernel Convolutional Neural Network for Bearing Fault Diagnosis	20
Fan Li, Liping Wang, Decheng Wang, Jun Wu, Ying Wang, Jiayu Sun	20
Self-attention Convolutional Neural Network-based SLA Decomposition for Network Slicing	25
Haidong Ji, Yuanyuan Wang, Lin Tian, Qian Sun, Zongshuai Zhang	25
Fault Location of Cabled Seafloor Observation Network Based on Fault Feature and Fault Distance Relation Mining Using Deep Learning	31
Shaoze Luan, Guangju Li, Weiming Gan, Weiguang Xing	
Wind power prediction based on long short-term memory neural network	37
Kexin Song, Wanting Ma, Xiaoyi Xiao, Kun Liu	57
Research on Sentence Embeddings for Text Matching through Multiview Interactive Features	43
Xiaohui Liu, Fumin Chen, Yong Hu, Xinjian Li	45
Study on The Robustness of Cascade Failure and Recovery of Dependent Networks Under Load	48
Jie Meng, Yaolin Zhu, Lei Wang	40
Neural Matrix Factorization Model Based On Latent Factor Learning	50
Ao Chang, Qingxian Wang, Xiao Zhang	52
Towards Graph Contrastive Learning for Recommendation with Sampling Embedding Perturbation	57
Gang Chen, Jianmin Li, Ying Ma	57
Traffic sign defogging based on conditional adversarial neural network pix2pixHD	(1
Jinzhao Zhang	61
Evaluation Model of Learner's Cognitive Level Based on RoBERTa Fused with CNN	
Yingying Cai, Yuancheng Zhao, Haibo Luo, Zhongyou Huang, Zhongying Huang, Feng Zhang	66
Cascade Prediction with Recurrent Neural Networks and Diffusion Depth Distributions	70
Shao Huang, Wangyang Yu	70
MTL-JER: Meta-Transfer Learning for Low-Resource Joint Entity and Relation Extraction	70
Da Peng, Zhongmin Pei, Delin Mo	78

Prediction Model of Ship Arrival Time using Neural Network and Kalman Filter	84
Xinyan Zhang, Xining Zhang, Pu Li	
Low earth orbit satellite admission control scheme based on deep Q-learning	89
Debin Wei, Dongdong Zheng, Li Yang, Ruiyan Cai	89
Mobile Robot Path Planning Based on Improved Ant Colony Algorithm	93
Lin Lu, Xinxin Jiang	93
Defect Detection of Photovoltaic Panels Based on Deep Learning	00
Haoran Lu, Xuyu Huang, Haoyu Shi, HuaiYu He	99
A Novel Two-Stage Net for Human Body Region Segmentation via Centimeter-Wave Radar	104
Jiaren Xiao, Zhiguo Chen, Bing Luo	104
Partial VGG16: reformed network for classification under partial occlusion	100
Bohang Sun, Bo Chen, Yuandan Deng	108
Layer-wise Top-k Gradient Sparsification for Distributed Deep Learning	110
Guangyao Li	112
A hybrid prediction framework based on deep learning for wind power	116
Yifang Jin, Shunjiang Wang, Zhaowei Ling, Duo Wang, Gang Wang	110
Analysis of Radar Survival Probability against Front Door Coupling Attack based on Beam Pattern	122
Xin Hu, Jiangping Yang, Cangzhen Meng, Yi Xu, Yuxi Xie	122
Research on Robotic High-precision Target Detection Technology for Transmission Lines Based on	
Convolutional Neural Networks	127
Boyu Xu, Xiyi Gu, Wenbin Liu, Jianfeng Zhang, Dongdian Lin	
Dam crack detection based on deep learning cascade detection algorithm	131
Qinchuan Wang, Bin Li, Ziqian Deng, Wanting Zhao	151
FedOES: An efficient Federated Learning approach	135
Yue Li, Zengjin Liu, Yunfa Huang, Peiting Xu	155
A Survey of Vehicle Trajectory Prediction Based on Deep-Learning	140
Huilin Yin, Yurong Wen, Jiaxiang Li	110
Highly overlapping strawberry leaf detection based on YOLOv5s-MBLS deep learning method	145
Tao Hu, Jun Zhang	140
Soil Nutrient Evaluation System Based on Improved Recurrent Neural Network	149
Yingbo Bu, Xinjie Yu, Yao Yang	149
An IoT Device Recognition Method based on Convolutional Neural Network	154
Minghao Lu, Yali Gao, Linghui Li, Xiaoyong Li	134
Deep Learning-based Viewpoint Prediction Model and Influencing Attention Factors for Design	
Drawings	158
Bai Liu	

PLA: Fast and Accurate Face Alignment Network based on Prior Landmarks	162
Haobin Li, Ye Ding, Mingyu Shao, Li Lu	102
YOLO-Owl: An Occlusion Aware Detector for Low Illuminance Environment	167
Jiwei Hu, Zhiwei Cui	107
Underwater Image Enhancement Method Based on CGAN and Parallel Attention Mechanism	171
Chi Ma, Le Yang, Hui Hu, Yuenai Chen, Anxu Bu	1/1
Research on Gait Feature Fusion Method of OpenPose and GEI Based on Convolutional Network	175
Jiahao Yuan	175
Salient Object Detection Based on Transformer and Multi-scale Feature Fusion	179
Lijun Zhao, Han Wang	1/9
PENet: Pre-Enhanced Network for Object Detection and Instance Segmentation	184
Yunda Shi, Jianming Hu, Li Li	104
Effect of BDS-2 Different Orbiting Satellites on BDS-3 Single-frequency Single Point Positioning	
Performance	190
Hong Zhang, Qinglin Guan, Chunming Fan	
Dynamic Decision Boundaries for Improved Robustness against Adversarial Attacks	197
Zeyu Long	-,,
Face mask detection based on improved YOLOv3 algorithm	201
Jie Wu, Lei Wang	
EEG Source Imaging based on a Transformer Encoder Network	208
Tongtong Zheng, Zijing Guan	200
Global optimization using a combination of differential evolution and modified Powell method	213
Zhiping Wang, Fan Zhang, Dongcai Liu, Xiaoting Chen, Jing Yin	210
Application of adaptive beamforming technology in underwater acoustic	219
Bingjie Yin, Jianqing Chen	
A Multi-scale Fusion Network with Transformer for Medical Image Segmentation	224
Guidi Lin, Lingna Chen	
Subspace-based Optimization Method with Adaptive Total Variation for Microwave Imaging	229
Wenjin Zhu, Wanyu Li, Xing Jiang, Fengyuan Sun	
Fine-grained Classification of Bone Scintigrams by Using Radiomics Features	234
Xiaoqiang Ma, Yang He, Qiang Lin, Yongchun Cao, Zhengxing Man	-
Segmentation of Metastasized Lesions in Bone Scintigrams Using U-Net++ with Attention Gate	239
An Xie, Yang He, Qiang Lin, Yongchun Cao, Zhengxing Man	
Study on Applying Median Cancellation Adaptive Clutter Suppression Interference Algorithm to	
Airborne Radar	246
Zhe Li, Juan Zhao, Shanshan Lu	

BeiDou Short Message Transmission Method Based on High-quality Image Compression and	
Reconstruction	251
Nanxu Gong, Zijun Li, Jie Tan, Hu Chen	
Fire Flame Detection in Tunnel Based on Halcon and ResNet50	256
Fengyuan Jia	
Robust adaptive beamforming for antenna sensor array based on the reconstruction shrinkage method	260
Yanyun Gong, Qinglang Chen, Haitao Wang, Yufei Wang	200
An improved nighttime people and vehicle detection algorithm based on YOLO v7	
Youyu Wu, Yangxintai Tang, Tao Yang	266
Research on Road Object Detection Algorithm Based on Improved YOLOX	
Youyu Wu, Tao Yang, Yangxintai Tang	271
Real-time recognition and localization method for deep-sea underwater object	
Yuanyang Tang, Yuman Nie, Yong Chen, Yaoxiong Wang	276
A fusion method based on 1D vibration signals and 2D images for detection of railway surface defects	
Tiantian Yang, Tianhua Xu, Yu Cheng, Zelong Tang, Shuai Su, Yuan Cao	282
ViT-ReID: A Vehicle Re-identification Method Using Visual Transformer	207
Linshan Du, Kuilin Huang, He Yan	287
An Integration method for calibration and positioning of space-based external radiation sources	291
Liang Yin, Hu Xie, Ying Luo, Zhenhua Su	291
Human Segmentation Using Commercial Wi-Fi Device	200
Zhiguo Chen, Jiaren Xiao, Bing Luo	299
Ship flame segmentation by fusing DASPP and PE-SCAM attention	202
Xuecong Zheng, Li Chen, Yaojie Chen	303
Context-based Image Inpainting with Improved Generative Adversarial Networks	
Minqian Qian, Bo Chen, Weiqin Chen	311
CLCA: Contrastive Learning Using Combined Additional Information for Alzheimer's Diagnosis	
Yanming Chen, Shubin Lou, Mingrui Shuai, Kan He, Zhulin An	316
FITrans: Skin Lesion Segmentation Based on Feature Integration and Transformer	
Likun Zhang	324
ISAR Imaging Method for High-speed Spinning Targets based on Minimum Image Entropy Criterion and Compressed Sensing	330
Mingrui Qi, Tianxiang Liu, Baixin Liu, Runtian Xu	550
Passive Non-Line-of-Sight imaging reconstruction based on dual input U-Net	
	227
Xin He, Pengfei Wang, Hao Liu, Xinde Yu	337

 Xiongrui Ge, Zhong Chen, Lin Li, Qingchan Long, Zhaohui Yuan A Multi-scale Domain Adaptive Framework for Scene Text Detection Bi Wang, Yu Gu, Yu Lu An Intrusion Detection Method Based on Transformer-LSTM Model Zhipeng Zhang, Xiaotian Si, Linghui Li, Yali Gao, Xiaoyong Li, Jie Yuan, Guoqiang Xing Spatiotemporal Action Detection Based on Improved Action Tube Connection Xiangzhen Xu, Yun Yi, Tinghua Wang, Wenyu Hu, Chuang Xu An adaptive edge detection method for extracting images of defect steel plates under complex background Fafa Chen, Haifei Dong, Mengteng Cheng, Baojia Chen, Wenrong Xiao Prediction of FPSO single point mooring line tension based on Bayesian optimization Zexin Zhang, Qixun Wang, Yazhou Zhu Multi-terminal Service Access Method Based on Load Balancing Xiao Ding, Zhibin Yin, Huifeng Bai, Chao Huo Complex-Valued Relative Positional Encodings for Transformer Gang Yang, Hongzhe Xu Research on metro traffic signal acquisition and analysis method based on image semantic recognition Deep Learning Based Wireless Device Identification Using RF Fingerprint Ziang Lu, Tengyan Wang, Xin Liu, Nige Li Risk assessment technology on power grid-communication networks considering spatiotemporal correlation Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan Zhao Traffic light detection based Channel Estimation in XL-MIMO systems Jingyi Peng, Yuhong Wang A New Approach in Discrete Event System by Deep Monte Carlo Tree Search Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu Missing Yalues Imputation Using Auto-associative Neural Network with Local Neighborhood Information A New Approach in Discrete Event System by Deep Monte Car	Monintoring Student Depression by Mobile Devices with Autoencoder Networks	342
Bi Wang, Yu Gu, Yu Lu 3 An Intrusion Detection Method Based on Transformer-LSTM Model 3 Zhipeng Zhang, Xiaotian Si, Linghui Li, Yali Gao, Xiaoyong Li, Jie Yuan, Guoqiang Xing 3 Spatiotemporal Action Detection Based on Improved Action Tube Connection 3 Xiangzhen Xu, Yun Yi, Tinghua Wang, Wenyu Hu, Chuang Xu 3 An adaptive edge detection method for extracting images of defect steel plates under complex background 3 Fafa Chen, Haifei Dong, Mengteng Cheng, Baojia Chen, Wenrong Xiao 7 Prediction of FPSO single point mooring line tension based on Bayesian optimization 3 Zexin Zhang, Qixun Wang, Yazhou Zhu 3 Multi-terminal Service Access Method Based on Load Balancing 3 Xiao Ding, Zhibin Yin, Huifeng Bai, Chao Huo 3 Complex-Valued Relative Positional Encodings for Transformer 3 Gang Yang, Hongzhe Xu 3 Research on metro traffic signal acquisition and analysis method based on image semantic 3 Inyufueg Chen, Jinjun Pan, Linfeng Hu, Haonan Dong 3 Deep Learning Based Wireless Device Identification Using RF Fingerprint 3 Ziang Lu, Tengyan Wang, Xin Liu, Nige Li 3 Risk assessment technology on power grid-communication networks considering spatiotemporal 3	Xiongrui Ge, Zhong Chen, Lin Li, Qingchan Long, Zhaohui Yuan	542
Bi Wang, Yu Gu, Yu Lu An Intrusion Detection Method Based on Transformer-LSTM Model 3 Zhipeng Zhang, Xiaotian Si, Linghui Li, Yali Gao, Xiaoyong Li, Jie Yuan, Guoqiang Xing 3 Spatiotemporal Action Detection Based on Improved Action Tube Connection 3 Xiangzhen Xu, Yun Yi, Tinghua Wang, Wenyu Hu, Chuang Xu 3 An adaptive edge detection method for extracting images of defect steel plates under complex background 3 Fafa Chen, Haifei Dong, Mengteng Cheng, Baojia Chen, Wenrong Xiao 3 Prediction of FPSO single point mooring line tension based on Bayesian optimization 3 Zexin Zhang, Qixun Wang, Yazhou Zhu 3 Multi-terminal Service Access Method Based on Load Balancing 3 Xiao Ding, Zhibin Yin, Huifeng Bai, Chao Huo 3 Complex-Valued Relative Positional Encodings for Transformer 3 Gang Yang, Hongzhe Xu 3 Research on metro traffic signal acquisition and analysis method based on image semantic recognition 3 Junyufeng Chen, Jinjun Pan, Linfeng Hu, Haonan Dong 3 Deep Learning Based Wireless Device Identification Using RF Fingerprint 3 Ziang Lu, Tengyan Wang, Xin Liu, Nige Li 3 Risk assessment technology on power grid-communication networks considering spatiotemporal correlation 3	A Multi-scale Domain Adaptive Framework for Scene Text Detection	347
3 3 Abipeng Zhang, Xiaotian Si, Linghui Li, Yali Gao, Xiaoyong Li, Jie Yuan, Guoqiang Xing 3 Spatiotemporal Action Detection Based on Improved Action Tube Connection 3 Xiangzhen Xu, Yun Yi, Tinghua Wang, Wenyu Hu, Chuang Xu 3 An adaptive edge detection method for extracting images of defect steel plates under complex background 3 Fafa Chen, Haifei Dong, Mengteng Cheng, Baojia Chen, Wenrong Xiao 3 Prediction of FPSO single point mooring line tension based on Bayesian optimization 3 Zexin Zhang, Qixun Wang, Yazhou Zhu 3 Multi-terminal Service Access Method Based on Load Balancing 3 Xiao Ding, Zhibin Yin, Huifeng Bai, Chao Huo 3 Complex-Valued Relative Positional Encodings for Transformer 3 Gang Yang, Hongzhe Xu 3 Research on metro traffic signal acquisition and analysis method based on image semantic 3 trecognition 3 Junyufeng Chen, Jinjun Pan, Linfeng Hu, Haonan Dong 3 Deep Learning Based Wireless Device Identification Using RF Fingerprint 3 Ziang Lu, Tengyan Wang, Xin Liu, Nige Li 3 Risk assessment technology on power grid-communication networks considering spatiotemporal correlation 3 Yuhong Qin, Yuqian Lin, Yuhang	Bi Wang, Yu Gu, Yu Lu	547
Zhipeng Zhang, Xiaotian Si, Linghui Li, Yali Gao, Xiaoyong Li, Jie Yuan, Guoqiang Xing 3 Spatiotemporal Action Detection Based on Improved Action Tube Connection 3 Xiangzhen Xu, Yun Yi, Tinghua Wang, Wenyu Hu, Chuang Xu 3 An adaptive edge detection method for extracting images of defect steel plates under complex background 3 Fafa Chen, Haifei Dong, Mengteng Cheng, Baojia Chen, Wenrong Xiao 3 Prediction of FPSO single point mooring line tension based on Bayesian optimization 3 Zexin Zhang, Qixun Wang, Yazhou Zhu 3 Multi-terminal Service Access Method Based on Load Balancing 3 Xiao Ding, Zhibin Yin, Huifeng Bai, Chao Huo 3 Complex-Valued Relative Positional Encodings for Transformer 3 Gang Yang, Hongzhe Xu 8 Research on metro traffic signal acquisition and analysis method based on image semantic 3 Junyufeng Chen, Jinjun Pan, Linfeng Hu, Haonan Dong 5 Deep Learning Based Wireless Device Identification Using RF Fingerprint 3 Ziang Lu, Tengyan Wang, Xin Liu, Nige Li 3 Risk assessment technology on power grid-communication networks considering spatiotemporal correlation 3 Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan Zhao 3 Traffi	An Intrusion Detection Method Based on Transformer-LSTM Model	250
3 3 Xiangzhen Xu, Yun Yi, Tinghua Wang, Wenyu Hu, Chuang Xu 3 An adaptive edge detection method for extracting images of defect steel plates under complex background 3 Fafa Chen, Haifei Dong, Mengteng Cheng, Baojia Chen, Wenrong Xiao 3 Prediction of FPSO single point mooring line tension based on Bayesian optimization 3 Zexin Zhang, Qixun Wang, Yazhou Zhu 3 Multi-terminal Service Access Method Based on Load Balancing 3 Xiao Ding, Zhibin Yin, Huifeng Bai, Chao Huo 3 Complex-Valued Relative Positional Encodings for Transformer 3 Gang Yang, Hongzhe Xu 3 Research on metro traffic signal acquisition and analysis method based on image semantic 3 Iunydeng Chen, Jinjun Pan, Linfeng Hu, Haonan Dong 3 Deep Learning Based Wireless Device Identification Using RF Fingerprint 3 Ziang Lu, Tengyan Wang, Xin Liu, Nige Li 3 Risk assessment technology on power grid-communication networks considering spatiotemporal correlation 3 Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan Zhao 3 Traffic light detection based on depth improved YOLOV5 3 Peilin Liu, Taijun Li 3 Fractional Fourier Transform Based Ch	Zhipeng Zhang, Xiaotian Si, Linghui Li, Yali Gao, Xiaoyong Li, Jie Yuan, Guoqiang Xing	352
Xiangzhen Xu, Yun Yi, Tinghua Wang, Wenyu Hu, Chuang Xu An adaptive edge detection method for extracting images of defect steel plates under complex background 3 Fafa Chen, Haifei Dong, Mengteng Cheng, Baojia Chen, Wenrong Xiao 3 Prediction of FPSO single point mooring line tension based on Bayesian optimization 3 Zexin Zhang, Qixun Wang, Yazhou Zhu 3 Multi-terminal Service Access Method Based on Load Balancing 3 Xiao Ding, Zhibin Yin, Huifeng Bai, Chao Huo 3 Complex-Valued Relative Positional Encodings for Transformer 3 Gang Yang, Hongzhe Xu 3 Research on metro traffic signal acquisition and analysis method based on image semantic 3 recognition 3 Junyufeng Chen, Jinjun Pan, Linfeng Hu, Haonan Dong 3 Deep Learning Based Wireless Device Identification Using RF Fingerprint 3 Ziang Lu, Tengyan Wang, Xin Liu, Nige Li 3 Risk assessment technology on power grid-communication networks considering spatiotemporal 3 correlation 3 Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan Zhao 3 Traffic light detection based on depth improved YOLOV5 3 Peilin Liu, Taijun Li 3 Fractional	Spatiotemporal Action Detection Based on Improved Action Tube Connection	256
background 3 Fafa Chen, Haifei Dong, Mengteng Cheng, Baojia Chen, Wenrong Xiao 3 Prediction of FPSO single point mooring line tension based on Bayesian optimization 3 Zexin Zhang, Qixun Wang, Yazhou Zhu 3 Multi-terminal Service Access Method Based on Load Balancing 3 Xiao Ding, Zhibin Yin, Huifeng Bai, Chao Huo 3 Complex-Valued Relative Positional Encodings for Transformer 3 Gang Yang, Hongzhe Xu 3 Research on metro traffic signal acquisition and analysis method based on image semantic 3 recognition 3 Junyufeng Chen, Jinjun Pan, Linfeng Hu, Haonan Dong 3 Deep Learning Based Wireless Device Identification Using RF Fingerprint 3 Ziang Lu, Tengyan Wang, Xin Liu, Nige Li 3 Risk assessment technology on power grid-communication networks considering spatiotemporal correlation 3 Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan Zhao 3 Traffic light detection based on depth improved YOLOV5 3 Piellin Liu, Taijun Li 4 Fractional Fourier Transform Based Channel Estimation in XL-MIMO systems 4 Jingyi Peng, Yuhong Wang 4 A New Approach in Discret	Xiangzhen Xu, Yun Yi, Tinghua Wang, Wenyu Hu, Chuang Xu	356
Fafa Chen, Haifei Dong, Mengteng Cheng, Baojia Chen, Wenrong Xiao3Prediction of FPSO single point mooring line tension based on Bayesian optimization3Zexin Zhang, Qixun Wang, Yazhou Zhu3Multi-terminal Service Access Method Based on Load Balancing3Xiao Ding, Zhibin Yin, Huifeng Bai, Chao Huo3Complex-Valued Relative Positional Encodings for Transformer3Gang Yang, Hongzhe Xu3Research on metro traffic signal acquisition and analysis method based on image semantic3recognition3Junyufeng Chen, Jinjun Pan, Linfeng Hu, Haonan Dong3Deep Learning Based Wireless Device Identification Using RF Fingerprint3Ziang Lu, Tengyan Wang, Xin Liu, Nige Li3Risk assessment technology on power grid-communication networks considering spatiotemporal correlation3Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan Zhao3Traffic light detection based on depth improved YOLOV53Peilin Liu, Taijun Li4Fractional Fourier Transform Based Channel Estimation in XL-MIMO systems Jingyi Peng, Yuhong Wang4A New Approach in Discrete Event System by Deep Monte Carlo Tree Search Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu4Missing Values Imputation Using Auto-associative Neural Network with Local Neighborhood 		
Prediction of FPSO single point mooring line tension based on Bayesian optimization 3 Zexin Zhang, Qixun Wang, Yazhou Zhu 3 Multi-terminal Service Access Method Based on Load Balancing 3 Xiao Ding, Zhibin Yin, Huifeng Bai, Chao Huo 3 Complex-Valued Relative Positional Encodings for Transformer 3 Gang Yang, Hongzhe Xu 3 Research on metro traffic signal acquisition and analysis method based on image semantic 3 recognition 3 Junyufeng Chen, Jinjun Pan, Linfeng Hu, Haonan Dong 3 Deep Learning Based Wireless Device Identification Using RF Fingerprint 3 Ziang Lu, Tengyan Wang, Xin Liu, Nige Li 3 Risk assessment technology on power grid-communication networks considering spatiotemporal correlation 3 Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan Zhao 3 Traffic light detection based on depth improved YOLOV5 3 Peilin Liu, Taijun Li 3 Fractional Fourier Transform Based Channel Estimation in XL-MIMO systems 4 Jingyi Peng, Yuhong Wang 4 A New Approach in Discrete Event System by Deep Monte Carlo Tree Search 4 Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu 4	background	360
Zexin Zhang, Qixun Wang, Yazhou Zhu3Multi-terminal Service Access Method Based on Load Balancing Xiao Ding, Zhibin Yin, Huifeng Bai, Chao Huo3Complex-Valued Relative Positional Encodings for Transformer Gang Yang, Hongzhe Xu3Research on metro traffic signal acquisition and analysis method based on image semantic recognition3Junyufeng Chen, Jinjun Pan, Linfeng Hu, Haonan Dong3Deep Learning Based Wireless Device Identification Using RF Fingerprint3Ziang Lu, Tengyan Wang, Xin Liu, Nige Li3Ruhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan Zhao3Traffic light detection based on depth improved YOLOV53Peilin Liu, Taijun Li3Fractional Fourier Transform Based Channel Estimation in XL-MIMO systems4Jingyi Peng, Yuhong Wang4A New Approach in Discrete Event System by Deep Monte Carlo Tree Search Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu4Missing Values Imputation Using Auto-associative Neural Network with Local Neighborhood Information4Xiaochen Lai, Hui Chen, Liyong Zhang4Research on Pulse Radar Jamming Recognition based on DE-SVDD4	Fafa Chen, Haifei Dong, Mengteng Cheng, Baojia Chen, Wenrong Xiao	
Zexin Zhang, Qixun Wang, Yazhou Zhu3Multi-terminal Service Access Method Based on Load Balancing3Xiao Ding, Zhibin Yin, Huifeng Bai, Chao Huo3Complex-Valued Relative Positional Encodings for Transformer3Gang Yang, Hongzhe Xu3Research on metro traffic signal acquisition and analysis method based on image semantic3recognition3Junyufeng Chen, Jinjun Pan, Linfeng Hu, Haonan Dong3Deep Learning Based Wireless Device Identification Using RF Fingerprint3Ziang Lu, Tengyan Wang, Xin Liu, Nige Li3Risk assessment technology on power grid-communication networks considering spatiotemporal correlation3Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan Zhao3Traffic light detection based on depth improved YOLOV5 Peilin Liu, Taijun Li3Fractional Fourier Transform Based Channel Estimation in XL-MIMO systems Jingyi Peng, Yuhong Wang4A New Approach in Discrete Event System by Deep Monte Carlo Tree Search Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu4Missing Values Imputation Using Auto-associative Neural Network with Local Neighborhood Information4Xiaochen Lai, Hui Chen, Liyong Zhang Research on Pulse Radar Jamming Recognition based on DE-SVDD4	Prediction of FPSO single point mooring line tension based on Bayesian optimization	365
33Xiao Ding, Zhibin Yin, Huifeng Bai, Chao Huo3Gomplex-Valued Relative Positional Encodings for Transformer3Gang Yang, Hongzhe Xu3Research on metro traffic signal acquisition and analysis method based on image semantic3recognition3Junyufeng Chen, Jinjun Pan, Linfeng Hu, Haonan Dong3Deep Learning Based Wireless Device Identification Using RF Fingerprint3Ziang Lu, Tengyan Wang, Xin Liu, Nige Li3Risk assessment technology on power grid-communication networks considering spatiotemporal correlation3Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan Zhao3Traffic light detection based on depth improved YOLOV5 Peilin Liu, Taijun Li3Fractional Fourier Transform Based Channel Estimation in XL-MIMO systems Jingyi Peng, Yuhong Wang4A New Approach in Discrete Event System by Deep Monte Carlo Tree Search Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu4Missing Values Imputation Using Auto-associative Neural Network with Local Neighborhood Information4Xiaochen Lai, Hui Chen, Liyong Zhang4Research on Pulse Radar Jamming Recognition based on DE-SVDD4	Zexin Zhang, Qixun Wang, Yazhou Zhu	505
Xiao Ding, Zhibin Yin, Huifeng Bai, Chao Huo3Complex-Valued Relative Positional Encodings for Transformer3Gang Yang, Hongzhe Xu3Research on metro traffic signal acquisition and analysis method based on image semantic recognition3Junyufeng Chen, Jinjun Pan, Linfeng Hu, Haonan Dong3Deep Learning Based Wireless Device Identification Using RF Fingerprint3Ziang Lu, Tengyan Wang, Xin Liu, Nige Li3Risk assessment technology on power grid-communication networks considering spatiotemporal correlation3Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan Zhao3Traffic light detection based on depth improved YOLOV5 Peilin Liu, Taijun Li3Fractional Fourier Transform Based Channel Estimation in XL-MIMO systems Jingyi Peng, Yuhong Wang4A New Approach in Discrete Event System by Deep Monte Carlo Tree Search Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu4Missing Values Imputation Using Auto-associative Neural Network with Local Neighborhood Information4Xiaochen Lai, Hui Chen, Liyong Zhang Research on Pulse Radar Jamming Recognition based on DE-SVDD4	Multi-terminal Service Access Method Based on Load Balancing	369
33Gang Yang, Hongzhe Xu3Research on metro traffic signal acquisition and analysis method based on image semantic3Junyufeng Chen, Jinjun Pan, Linfeng Hu, Haonan Dong3Deep Learning Based Wireless Device Identification Using RF Fingerprint3Ziang Lu, Tengyan Wang, Xin Liu, Nige Li3Risk assessment technology on power grid-communication networks considering spatiotemporal correlation3Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan Zhao3Traffic light detection based on depth improved YOLOV53Peilin Liu, Taijun Li4Fractional Fourier Transform Based Channel Estimation in XL-MIMO systems4Jingyi Peng, Yuhong Wang4A New Approach in Discrete Event System by Deep Monte Carlo Tree Search4Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu4Missing Values Imputation Using Auto-associative Neural Network with Local Neighborhood Information4Xiaochen Lai, Hui Chen, Liyong Zhang4Research on Pulse Radar Jamming Recognition based on DE-SVDD4	Xiao Ding, Zhibin Yin, Huifeng Bai, Chao Huo	509
Gang Yang, Hongzhe XuResearch on metro traffic signal acquisition and analysis method based on image semanticrecognition3Junyufeng Chen, Jinjun Pan, Linfeng Hu, Haonan Dong3Deep Learning Based Wireless Device Identification Using RF Fingerprint3Ziang Lu, Tengyan Wang, Xin Liu, Nige Li3Risk assessment technology on power grid-communication networks considering spatiotemporal correlation3Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan Zhao3Traffic light detection based on depth improved YOLOV53Peilin Liu, Taijun Li3Fractional Fourier Transform Based Channel Estimation in XL-MIMO systems Jingyi Peng, Yuhong Wang4A New Approach in Discrete Event System by Deep Monte Carlo Tree Search Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu4Missing Values Imputation Using Auto-associative Neural Network with Local Neighborhood Information4Kiaochen Lai, Hui Chen, Liyong Zhang Research on Pulse Radar Jamming Recognition based on DE-SVDD4	Complex-Valued Relative Positional Encodings for Transformer	373
recognition3Junyufeng Chen, Jinjun Pan, Linfeng Hu, Haonan Dong3Deep Learning Based Wireless Device Identification Using RF Fingerprint3Ziang Lu, Tengyan Wang, Xin Liu, Nige Li3Risk assessment technology on power grid-communication networks considering spatiotemporal correlation3Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan Zhao3Traffic light detection based on depth improved YOLOV5 Peilin Liu, Taijun Li3Fractional Fourier Transform Based Channel Estimation in XL-MIMO systems Jingyi Peng, Yuhong Wang4A New Approach in Discrete Event System by Deep Monte Carlo Tree Search Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu4Missing Values Imputation Using Auto-associative Neural Network with Local Neighborhood Information4Xiaochen Lai, Hui Chen, Liyong Zhang4Research on Pulse Radar Jamming Recognition based on DE-SVDD4	Gang Yang, Hongzhe Xu	515
Junyufeng Chen, Jinjun Pan, Linfeng Hu, Haonan Dong Deep Learning Based Wireless Device Identification Using RF Fingerprint Ziang Lu, Tengyan Wang, Xin Liu, Nige Li Risk assessment technology on power grid-communication networks considering spatiotemporal correlation 3 Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan Zhao Traffic light detection based on depth improved YOLOV5 Peilin Liu, Taijun Li Fractional Fourier Transform Based Channel Estimation in XL-MIMO systems Jingyi Peng, Yuhong Wang A New Approach in Discrete Event System by Deep Monte Carlo Tree Search Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu Missing Values Imputation Using Auto-associative Neural Network with Local Neighborhood Information 4 Xiaochen Lai, Hui Chen, Liyong Zhang Research on Pulse Radar Jamming Recognition based on DE-SVDD 4	Research on metro traffic signal acquisition and analysis method based on image semantic	
Deep Learning Based Wireless Device Identification Using RF Fingerprint3Ziang Lu, Tengyan Wang, Xin Liu, Nige Li3Risk assessment technology on power grid-communication networks considering spatiotemporal correlation3Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan Zhao3Traffic light detection based on depth improved YOLOV53Peilin Liu, Taijun Li5Fractional Fourier Transform Based Channel Estimation in XL-MIMO systems4Jingyi Peng, Yuhong Wang4A New Approach in Discrete Event System by Deep Monte Carlo Tree Search4Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu4Missing Values Imputation Using Auto-associative Neural Network with Local Neighborhood Information4Xiaochen Lai, Hui Chen, Liyong Zhang4Research on Pulse Radar Jamming Recognition based on DE-SVDD4	recognition	380
3Ziang Lu, Tengyan Wang, Xin Liu, Nige LiRisk assessment technology on power grid-communication networks considering spatiotemporal correlation3Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan ZhaoTraffic light detection based on depth improved YOLOV5 Peilin Liu, Taijun LiFractional Fourier Transform Based Channel Estimation in XL-MIMO systems Jingyi Peng, Yuhong WangA New Approach in Discrete Event System by Deep Monte Carlo Tree Search Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong WuMissing Values Imputation Using Auto-associative Neural Network with Local Neighborhood Information4Xiaochen Lai, Hui Chen, Liyong ZhangResearch on Pulse Radar Jamming Recognition based on DE-SVDD	Junyufeng Chen, Jinjun Pan, Linfeng Hu, Haonan Dong	
Ziang Lu, Tengyan Wang, Xin Liu, Nige LiRisk assessment technology on power grid-communication networks considering spatiotemporal correlation3Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan ZhaoTraffic light detection based on depth improved YOLOV5Peilin Liu, Taijun LiFractional Fourier Transform Based Channel Estimation in XL-MIMO systemsJingyi Peng, Yuhong WangA New Approach in Discrete Event System by Deep Monte Carlo Tree SearchTianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong WuMissing Values Imputation Using Auto-associative Neural Network with Local NeighborhoodInformationXiaochen Lai, Hui Chen, Liyong ZhangResearch on Pulse Radar Jamming Recognition based on DE-SVDD	Deep Learning Based Wireless Device Identification Using RF Fingerprint	385
correlation3Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan Zhao3Traffic light detection based on depth improved YOLOV53Peilin Liu, Taijun Li3Fractional Fourier Transform Based Channel Estimation in XL-MIMO systems4Jingyi Peng, Yuhong Wang4A New Approach in Discrete Event System by Deep Monte Carlo Tree Search4Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu4Missing Values Imputation Using Auto-associative Neural Network with Local Neighborhood4Xiaochen Lai, Hui Chen, Liyong Zhang4Research on Pulse Radar Jamming Recognition based on DE-SVDD4	Ziang Lu, Tengyan Wang, Xin Liu, Nige Li	505
Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan ZhaoTraffic light detection based on depth improved YOLOV5Peilin Liu, Taijun LiFractional Fourier Transform Based Channel Estimation in XL-MIMO systemsJingyi Peng, Yuhong WangA New Approach in Discrete Event System by Deep Monte Carlo Tree SearchTianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong WuMissing Values Imputation Using Auto-associative Neural Network with Local NeighborhoodInformationXiaochen Lai, Hui Chen, Liyong ZhangResearch on Pulse Radar Jamming Recognition based on DE-SVDD		
Traffic light detection based on depth improved YOLOV53Peilin Liu, Taijun Li5Fractional Fourier Transform Based Channel Estimation in XL-MIMO systems4Jingyi Peng, Yuhong Wang4A New Approach in Discrete Event System by Deep Monte Carlo Tree Search4Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu4Missing Values Imputation Using Auto-associative Neural Network with Local Neighborhood4Xiaochen Lai, Hui Chen, Liyong Zhang4Research on Pulse Radar Jamming Recognition based on DE-SVDD4		391
3Peilin Liu, Taijun LiFractional Fourier Transform Based Channel Estimation in XL-MIMO systemsJingyi Peng, Yuhong WangA New Approach in Discrete Event System by Deep Monte Carlo Tree SearchTianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong WuMissing Values Imputation Using Auto-associative Neural Network with Local NeighborhoodInformationXiaochen Lai, Hui Chen, Liyong ZhangResearch on Pulse Radar Jamming Recognition based on DE-SVDD	Xuhong Qin, Yuqian Lin, Yuhang Pang, Liangsong Zhang, Sheng Wang, Huixia Ding, Ziyan Zhao	
Peilin Liu, Taijun Li Fractional Fourier Transform Based Channel Estimation in XL-MIMO systems Jingyi Peng, Yuhong Wang A New Approach in Discrete Event System by Deep Monte Carlo Tree Search Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu Missing Values Imputation Using Auto-associative Neural Network with Local Neighborhood Information Xiaochen Lai, Hui Chen, Liyong Zhang Research on Pulse Radar Jamming Recognition based on DE-SVDD 4	Traffic light detection based on depth improved YOLOV5	395
Jingyi Peng, Yuhong Wang4A New Approach in Discrete Event System by Deep Monte Carlo Tree Search4Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu4Missing Values Imputation Using Auto-associative Neural Network with Local Neighborhood4Information4Xiaochen Lai, Hui Chen, Liyong Zhang4Research on Pulse Radar Jamming Recognition based on DE-SVDD4	Peilin Liu, Taijun Li	575
Jingyi Peng, Yuhong Wang A New Approach in Discrete Event System by Deep Monte Carlo Tree Search Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu Missing Values Imputation Using Auto-associative Neural Network with Local Neighborhood Information 4 Xiaochen Lai, Hui Chen, Liyong Zhang Research on Pulse Radar Jamming Recognition based on DE-SVDD 4	Fractional Fourier Transform Based Channel Estimation in XL-MIMO systems	400
4 Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu Missing Values Imputation Using Auto-associative Neural Network with Local Neighborhood Information Xiaochen Lai, Hui Chen, Liyong Zhang Research on Pulse Radar Jamming Recognition based on DE-SVDD 4	Jingyi Peng, Yuhong Wang	-100
Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu Missing Values Imputation Using Auto-associative Neural Network with Local Neighborhood Information 4 Xiaochen Lai, Hui Chen, Liyong Zhang Research on Pulse Radar Jamming Recognition based on DE-SVDD 4	A New Approach in Discrete Event System by Deep Monte Carlo Tree Search	405
Information4Xiaochen Lai, Hui Chen, Liyong Zhang4Research on Pulse Radar Jamming Recognition based on DE-SVDD4	Tianxiang Ou, Jianwen Cao, Yanan Lu, Yupeng Wang, Xuesong Wu	405
Xiaochen Lai, Hui Chen, Liyong Zhang Research on Pulse Radar Jamming Recognition based on DE-SVDD 4	Missing Values Imputation Using Auto-associative Neural Network with Local Neighborhood	
Research on Pulse Radar Jamming Recognition based on DE-SVDD	Information	411
4	Xiaochen Lai, Hui Chen, Liyong Zhang	
Limin Guo, Jingyi E	Research on Pulse Radar Jamming Recognition based on DE-SVDD	416
	Limin Guo, Jingyi E	110

BERTGACN: Text Classification by Combining BERT and GCN and GAT	400
Yang Xue	422
UAV Intelligent Approach Jamming Wireless Communication System	427
Sumeng Luo, Xin Liu	427
A Decentralized Data Crowdsourcing Framework	
A Accountability and Confidentiality Perspective	433
YunZhou Wu, Xiangqian Dong	
Long Text Multi-label Classification	120
Miao Zang, Siyi Niu, Yang Gao, Xi Chen	438
Target Detection Approach for UAVs via Improved Unbiased Teacher	112
Zhendong Hua, Beibei Zhang	443
Intelligent Safe Driving Assistance System Based On Improved YOLOv5	447
Peiyang Ni, Chaoyun Qiu, Xiaojie Li, Ruixuan Liu, Jingwen Wu, Junlin Guan	447
Hierarchical Multi-label Text Classification Method Based On Multi-level Decoupling	450
Qingwu Fan, Changsheng Qiu	453
An optimization high-resolution network for human pose recognition based on attention mechanism	458
Yu Feng, Junhua Zhou, Jinlong Yang, Yong Tang	438
Research on pavement marking recognition method based on MATLAB	464
Ruchun Li, Xinxiu Zhang	101
STANet: a Spatial-Temporal Aggregation Network for Video Deraining	470
Bin Li, Tao Yan, Weijiang He, Xiangjie Zhu	470
Electronic efficiency and nonlinearity of Ka-band broadband traveling wave tube	480
Chang Tong, Qo Bo	400
Communication Information Fusion Based Multi-Agent Reinforcement Learning for Adaptive	
Traffic Light Control	488
Jixiang Xu, Lulu Li, Ruijie Zhu, Ping Lv	
Arrhythmia classification method based on knowledge distillation and 2D ECG images	493
Renwei Li, Liwei Meng, Yian Liu, Shaogang Hu, Guanchao Qiao	.,
A new appearance-based gaze estimation via multi-modal fusion	498
Huijie Yang, Zuoyun Yang, Jiahui Liu, Jiannan Chi	190
An Urban Road Semantic Segmentation Method Based on Bilateral Segmentation Network	503
Linshan Du, Ye Zhang, Bin Liu, He Yan	505
CAGAN: A Channel-aware Generative Adversarial Network for Passive Non-Line-of-Sight Imaging	508
Xinde Yu, Pengfei Gao, Hao Liu, Xin He	500
Monotonic Optimization-based Resource Allocation for D2D-enabled MC-NOMA Networks	513
Caihong Kai, Huihao Ge, Jianyue Zhu, Wei Huang	515

Spectral Feature Selection Via Low Rank Decomposition and Local Preservation	518
Luxi Jiang, Xiuhong Chen	510
License Plate Recognition in Wild with Super-Resolution	500
Yu Lu, Yu Gu, Bi Wang	523
Soft-Actor-Attention-Critic Based on Unknown Agent Action Prediction for Multi-Agent	
Collaborative Confrontation	527
Ziwei Liu, Changzhen Qiu, Zhiyong Zhang	
An intermittent sampling and forwarding interference suppression method based on intra-pulse frequency-time-delay agile waveform	536
Chuang Niu, Qiang Lin, Yanyan Ma, Min Duan, Heng Zhang	
Semantic Segmentation of Traffic Scene Based on DeepLabv3+ and Attention Mechanism	540
Yuan Zhang, Yuhao Zhang, Qianyi Zhang	542
Rail track curve recognition model based on PSO-LSTM algorithm	540
Youyu Wu, Qinsong Wang	548
Machine Translation Based on Syntactic Structure	
Xiangjun Zhou, Siling Zhang	553
Transformer fault identification method based on improved oversampling and MSFO-SVM	
Guomin Xie, Shilin Li	557
Research on Key Fragile Dependency Links Removal Strategies in Interdependent Power and Communication Networks under Cascading Failures	565
Qianqian Zou, Lin Ding	
Enhanced Module design based on ShuffleNetV2	571
Sifeng Luo, Huang Huang, Xi Huang	571
CMTR6D: Cross-modal transformer for 6D Pose Estimation	577
Jiwei Hu, Zhiqiang Xu	511
An artificial bee colony algorithm improved by a search strategy based on adaptive selection	581
Yanyu Liu, Meimei Yang, Yansheng Li, Dongjie Jiang, Yi Zhang	301
Research on Image Super-resolution Restoration Algorithm Based on High Order Degradation Model	586
Ziting Gong, Yu Xu, Hongyu Liu	
A Crowd Counting Method Based on Multi-Scale Attention Network	501
Yu Xu, Mu Liang, Ziting Gong	591
Mask RFCT: Recursive Fully Convolutional Tracker for Video Instance Segmentation	506
Yunda Shi, Jianming Hu, Yi Zhang	596
SAR and Multispectral Image Fusion Based on Dual-Channel Hybrid Attention Block and Dilated	
Convolution	602
Fating Chong, Zhangyu Dong, Xuezhi Yang, Qingwang Zeng	

High-Speed Tracking of Discriminative Correlation Filters Based on GPU	608
Qingchen Zhang, Yuman Nie, Yaoxiong Wang, Pingguo Cao	008
Fast rare itemset mining in uncertain database	(12
Weidong Qian, Han Li, Huang Huang, Maocai Yuan, Yuan Xu, Ganjiang Sun	613
A Novel Transmitarray Using Double-layer Hexagonal Element with Vias	(21
Hantao Zhou, Haogang Wang	621
Design and Analysis of Software and Hardware Cooperative Mode	(25
Yinglu Zhao, Xinyi Song, Yin Xiong, Siyu Wang	625
Prediction of power network planning demand coefficient using eXtreme Gradient Boosting algorithm	629
Lixiang Lin, Guoyue Wu, Chenxi Zhang, Zhifang Zhu	
Computation Offloading and Task Scheduling Based on Improved Integer Particle Swarm Optimization in Fog Computing	633
Jianjie He, Wenle Bai	
Medium and Long Term Scenario Generation Method Based on Autoencoder and Generation Adversarial Network	639
Boya Peng, Zhiyuan Sun, Mosi Liu	
A Flexible and Low-Resource CNN Accelerator on FPGA for Edge Computing	646
Haoran Bai	040
Global Temperature Prediction by BiLSTM Model Based on Whale Optimization Algorithm and Attention Mechanism	651
Bohao Li, Hewen Pan	
Dynamic modelling of uncertain multiple coupled delays complex networks and its robust adaptive tracking control	658
Housheng Xu	
The normalized subband adaptive filter under variable kernel width maximum correntropy criterion for sparse system	664
Qianqian Liu, Zhigang Li, Yigang He	
Research on hybrid multiple hypothesis prediction reconstruction algorithm based on measured value	
reorganization	669
An Lu, Ling Yu, Qinghui Yang, Fan Yang, Yong Huang, Lihua Tan, Deyi Xiong	
An improved multi-label classification algorithm based on YOLOV5s	674
Chen Shen, Mingfa Yi, Maosheng Fu	2,1
Dynamic-YOLOv5: An improved aerial small object detector based on YOLOv5	
Qiang Wei, Xiaoyang Hu, Qinxian Hou	679

Dim-Light Instance Segmentation Based on Soft Thresholding and Improved BCNet	684
Zijun Li, Nanxu Gong, Tianle Yang, Liyu Luo, Hu Chen	084
Research on adaptive rate algorithm in bee colony ad hoc network	690
He Huang [,] Jiawei Su, Hongmin Zhang, You Ping Mao	090
Load-Aware Computation Offloading with Latency Limitation in Mobile Edge Computing	604
Kang Xiong, Guanglun Huang, Jianming Liu, Minghe Zhang	694
Short-term PV Power Prediction Based on Bi-directional Gated Recurrent Unit Network and	
Adaptive Chirp Mode Decomposition	702
Shunjiang Wang, Dianyang Li, Gang Liu, Zhaowei Ling, Duo Wang	
Research On The Selection And Calibration Algorithm Of Special Monitoring Camera	707
Yahui Zhang	101
Cross-Modality Encoder Representations Based On External Attention Mechanism	711
Yudong Zheng, Jun Lu	/11
Cycling image encryption algorithm based on the new composite chaotic mapping	715
Chengshuai Li, Wanbo Yu	/15
Joint Beamforming and Deployment Design for IRS-aided Energy Harvest IoT Network	720
Zhenwei Liu,Wenjie Zhang, Qi Cao, Yunlong Liang, Wei Huang, Shiwen He	720
Marine debris detection model based on the improved YOLOv5	725
Jiazhen Liu, Yi Zhou	123
Service Resilience Optimization Algorithm for Intelligent Space-based System with Minimum Delay	720
Junxiang Qin, Xuan Li, Xiaotian Ma, Jun Yang	729
Disaster Remote Sensing Image Semantic Segmentation model with boundary constraints based on	
SegNeXt	734
Ziquan Wang	
Multi-view Stereo 3D Reconstruction Algorithm Based on Improved PatchMatch Algorithm	738
Liang Zeng, Weidong Huang, Junqing Wu, Xiaolan Liu	758
Research on power prediction of clean energy and operation optimization of clean energy supply system for typical regions	
Qiang Mu, Haini Zhou, Shuai Zhang, Xiangchen Fan, Qingqing Chi, Anqi Liang, Yifeng Ding, Shuang	745
Zeng	
Power: Multi-Capatibility Adaptive Routing for Network-on-Chips	751
Xiaoyun Zhang	751
Unsupervised Abnormality Detection with Normalizing Flow and Neural Network	755
Wenxuan Fang, Xian Tang, Kai Zhang	155
Author Index	762