# **2020 International Conference on Communications, Information System and Computer Engineering (CISCE 2020)**

Kuala Lumpur, Malaysia 3-5 July 2020



IEEE Catalog Number: CFP20U49-POD **ISBN:** 

978-1-7281-9762-3

## Copyright © 2020 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:	CFP20U49-POD
ISBN (Print-On-Demand):	978-1-7281-9762-3
ISBN (Online):	978-1-7281-9761-6

#### 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



2020 International Conference on Communications, Information System and Computer Engineering (CISCE) CISCE 2020

### **Table of Contents**

Preface .xv	
	Members xvi
Reviewers	xvii

#### **Communication System and Technical Analysis Application**

Technical Features and Application of Electromagnetic Flow Meter .1 Baoyang Chen (Zhejiang Tianxin Instrument Technology Co., Ltd), Yong Zhou (Zhejiang Tianxin Instrument Technology Co., Ltd), Tongquan Huang (Zhejiang Tianxin Instrument Technology Co., Ltd), Songdong Ying (Zhejiang Tianxin Instrument Technology Co., Ltd), and Tongcai Chen (Zhejiang Tianxin Instrument Technology Co., Ltd), and Tongcai Chen
Asymmetric CPW-Fed UWB Antenna with Dual-Band Rejection Characteristics .6 Qing-li Zeng (Jishou University), Lei Ding (Jishou University), and Shan-rong Chen (Jishou University)
Application of GNN in Urban Computing .14 Xuanguang Chen (Yancheng Teachers University)
Comparison of Indoor Localization Methods in Two-Dimensional Wireless Sensor Network .18 Bixing Yan (University of Electronic Science and Technology of China), Bin Zhu (Wuhan University), Huihe Chen (Harbin University of Science and Technology), Yueqi Yang (Suzhou North America High School), and Jianqiao Yang (University of Nottingham Ningbo China)
Discriminative Adversarial Domain Adaptation Based on Circle Loss 30 Peng Zhao (Anhui University) and Biao Zhou (Anhui University)

<ul> <li>Analysis of Abnormal Measurement of Smart Meter .34</li> <li>Xianguang Dong (State Grid Shandong Electric Power Research Institute), Yanjie Dai (State Grid Shandong Electric Power Research Institute), Zhiru Chen (State Grid Shandong Electric Power Research Institute), Xiao Liu (Shandong Zhongshiyitong Group Co., Ltd), Yanxi Liu (Shandong Zhongshiyitong Group Co., Ltd), Tingting Wang (Shandong Zhongshiyitong Group Co., Ltd), Xue Zheng (Shandong Zhongshiyitong Group Co., Ltd), Jie Yang (Shandong Zhongshiyitong Group Co., Ltd), and Ziqian Xu (Shandong Zhongshiyitong Group Co., Ltd)</li> </ul>
Research on Modulation Recognition of OFDM Signal Based on Hierarchical Iterative Support Vector Machine .38 Gaohui Liu (Xi'an University of Technology) and Jiakun Cao (Xi'an University of Technology)
Design and Development of Inspection Management Information System for Power Plant Boiler Based on J2EE .45 Chen Wang (Shanghai Institute of Special Equipment Inspection and Technical Research), Pengbo Liu (Shanghai Institute of Special Equipment Inspection and Technical Research), Shuangchang Feng (Shanghai Institute of Special Equipment Inspection and Technical Research), and Xiaochang Liu (Shanghai Institute of Special Equipment Inspection and Technical Research)
Study of an Application of Hybrid Spread Spectrum Technology in Satellite Communication .49 Ge Zheng (Beijing Research Institute of Telemetry), Yiping Yao (National University of Defense Technology), Dongdong Wang (Beijing Research Institute of Telemetry), and Jinchao Tian (Beijing Research Institute of Telemetry)
Time-Frequency Synchronization Design of OFDM Systems Based on CAZAC Sequence .55 Xinge Fan (Beijing Institute of Remote Sensing Equipment), Jian Yang (Beijing Institute of Remote Sensing Equipment), and Wenjing Zhang (Beijing Institute of Remote Sensing Equipment)
Research on Signal Modulation Recognition Method Based on Deep Belief Network .59 Zhiwei Li (Qingdao University), Shuo Yang (Qingdao University), Xincheng An (Qingdao University), Zhuoyue Li (Qingdao University), Xiyu Sun (Qingdao University), Rui Zhu (Anhui University), and Wenguang Lin (Shenzhen Jinghai Network Co., Ltd)
Performance Investigation of Volterra-based Digital Predistortion Using Orthogonal Matching Pursuit .63 Xi Liu (Qingdao University) and Pu Miao (Qingdao University)
The Impact of ICT Advances on Education: A Case Study .68 Chao Duan (Central China Normal University), Dongpo Guo (Central China Normal University), Jerry Xie (Central China Normal University), and Jing Zhang (Central China Normal University)
Design and Implementation of Remote Precision Temperature Control Device for Maneuvering Target .74 Jun Luo (Army Academy of Artillery and Air Defense), Han Ding (Army Academy of Artillery and Air Defense), and Wenjun Lu (Anhui Sanlian University)

Automatic Detection Method for Small Size Transmission Lines Defect Based on Improved YOLOv3 .78..... Shouguo Lv (State Gird Shandong Maintenance Company), Kai Liu (State Grid Intelligent Technology Co., Ltd), Yaohua Qiao (State Gird Shandong Maintenance Company), Yungi Li (CQU-UC Joint CO-OP Institute, Chongging University), Yang Sun (State Gird Shandong Maintenance Company), and Zhenyu Li (State Grid Intelligent Technology Co., Ltd) Autofocus System for Imaging Multiple Cells across Thick Liquid Layers in Differrent Focal Planes .82..... Lin Liu (University of Electronic Science and Technology of China), Xiaohui Du (University of Electronic Science and Technology of China), Juanxiu Liu (University of Electronic Science and Technology of China), Guangming Ni (University of Electronic Science and Technology of China), Jing Zhang (University of Electronic Science and Technology of China), Rugian Hao (University of Electronic Science and Technology of China), Xiangzhou Wang (University of Electronic Science and Technology of China), Yong Liu (University of Electronic Science and Technology of China), and Hongliang Ren (National University of Singapore) Research on Multilevel Robust Information Decision Optimization Model of Data Communication Network .88..... Han Ding (Artillery and Air Defense Academy of Army), Jun Luo (Artillery and Air Defense Academy of Army), Jin Yang (Artillery and Air Defense Academy of Army), and Wenjun Lu (Anhui Sanlian University) Improvement of Information System Audit to Deal with Network Information Security .93..... Xinyu Zhou (Shaanxi Normal University) GPS Positioning Method of UAV Based on Improved Particle Filter .97..... Qing Xin (Wuhan University of Technology) and Shixun Wang (Wuhan University of Technology) Research on Maritime Rescue UAV Based on Beidou CNSS and Extended Square Search Algorithm .... 102 Jiankai Zuo (Shenyang Aerospace University), Jiatong Chen (Shenyang Aerospace University), Zhengsheng Li (Shenyang Aerospace University), Zhongzhi Li (Shenyang Aerospace University), Zeyuan Liu (Shenyang Aerospace University), and Zhixuan Han (Shenyang Aerospace University) Analysis of LoRa Transmission Distance and Data Test in Low Bit Rate Spread Spectrum Communication .107..... Li-ming Wang (Naval Engineering University), Xiao-ling Yan (Naval Engineering University), Yang Yin (Naval Engineering University), and Li-chun Han (Naval Engineering University) Vertical Variation of Hg Content without Transport Source .113..... Dongfang Yang (Xijing University), Haixia Li (Xijing University), Qi Wang (Xijing University), Danfeng Yang (Columbia University), and Weifeng Ling (Xijing University) Research on Repeater Technology Based on Software Defined Radio .118..... Kuan Zhou (Tianjin University of Technology and Education), Ling Deng (Tianjin University of Technology and Education), and Jun Zhang (Tianjin University of Technology and Education)

## Internet of Things and Big Data Information System

Classifying Quality Grading and Size of Allium Cepa Using Digital Image Processing Algorithms .123 Bhai Nhuraisha I. Deplomo (Jose Rizal University), Jennifer C. Dela Cruz (Mapúa University), and Jessie R. Balbin (Mapúa University)
Prediction of Downstream BOD Based on Light Gradient Boosting Machine Method .127 Yuelai Su (Baidu Technology Park Building) and Yining Zhao (Qingdao University)
Comparison of Three Prediction Models for the Incidence of Epidemic Diseases .131 Yining Zhao (Qingdao University) and Yuelai Su (Baidu Technology Park Building)
A Prediction Model of Urban Rail Transit Noise .137 Juxuan Lyu (Southwest Jiaotong University)
Evaluating the Effectiveness of COVID-19 Prevention and Control Measures Based on SEIR Model .143
<i>Yuanhao Wang (Sichuan University)</i> Analysis of Blocking Population Flow to Control COVID-19 in Multi-regions Based on Discrete SEIR Epidemic Model .147
Shengce Zhang (The High School Affiliated to Renmin University of China)
Graph Convolutional Networks: An Analysis of Method and Applications in Different Fields and Systems .153 <i>Hongrui Peng (University of Mining and Technology)</i>
Health Management for Next-gen Blockchain: Smart Construction, Dynamic Evolution and Stochastic Transformation 158
Kuan Li (Northwestern Polytechnical University), Chenglie Du (Northwestern Polytechnical University), Zhenguo Li (Northwestern Polytechnical University), and Yi Wang (Northwestern Polytechnical University)
IoT System for Collecting Vital Signs and Geographic Location Data of Mobile Users .163 Yifan Yang (Urumqi No.1 Senior High School), Yujie Wang (Jijun High School of Hangzhou), Yangkai Lin (Virginia Tech), and Liye Jia (Xi'an Jiaotong and Liverpool University)
Design and Implementation of Multi-tenant Vehicle Monitoring Architecture Based on Microservices and Spark Streaming .169 Chen Chen (China Automotive Technology and Research Center Co. Ltd), Jianjun Cai (China Automotive Technology and Research Center Co. Ltd), Nver Ren (China Automotive Technology and Research Center Co. Ltd), and Xu Cheng (China Automotive Technology and Research Center Co. Ltd)

Integrated Energy Information Physical System Model and its Simulation Control .173 Kunpeng Zhao (State Grid Corporation Customer Service Center), Yongli Wang (North China Electric Power University), Jiantao Kou (State Grid Corporation Customer Service Center), Daomin Qu (State Grid Corporation Customer Service Center), Jie Bai (Beijing Fibrlink Communication Co., Ltd. Tianjin Branch), Huanran Dong (North China Electric Power University), and Minhan Zhou (North China Electric Power University)
Research on Comprehensive Budget Management of Clothing E-commerce Enterprises under the Background of Big Data: Take H Group as an Example .178 Liya Zhu (Chinese Academy of Sciences), Jiaxin Feng (Dongbei University of Finance and Economics), Xiaoyang Sun (Beijing University of Posts and Telecommunications), Pengcheng Xue (Inje University), and Qingchuan Meng (Harbin Engineering University)
Intelligent Electricity Purchase and Sale Trading Platform Based on Block Chain .183 XiaoRong Duan (Research Institute of State Grid)
Data Glove Design and Virtual Hand Simulation Based on Single-chip Microcomputer .190 Ji Yun Shi (Beijing Institute of Technology), Tong Wu (Beijing Institute of Technology), Wen Zhe Yan (Beijing Institute of Technology), and Lin Nan Wang (Beijing Institute of Technology)
Dimensionality Reduction of Massive I/O Log Data Flow in Power System .198 Bo Zhang (State Grid Key Laboratory of Information & Network Security), Zesheng Xi (State Grid Key Laboratory of Information & Network Security), Tao Zhang (State Grid Key Laboratory of Information & Network Security), Yuanyuan Ma (State Grid Key Laboratory of Information & Network Security), Zhipeng Shao (State Grid Key Laboratory of Information & Network Security), and Hongfa Li (State Grid Fujian Electric Power Co., Ltd)
Multi-energy Flow Regulation and Operation Method of Distribution Network Based on Smart City Energy Internet .203 <i>Cuizhe Kuang (Shenzhen Polytechnic), Qun Wang (Shenzhen Polytechnic),</i> <i>Jianhua Wan (Shenzhen Polytechnic), Guoxin Li (Shenzhen Polytechnic),</i> <i>and Baoqiang Lv (Shenzhen Polytechnic)</i>
A Decentralized User Authentication Model Based on Activity Proof Use the New User Identity Credential: Activity Map 207 <i>Jing Wu (Baise University)</i>
Multi-task BERT for Problem Difficulty Prediction .213 Ya Zhou (Guilin University of Electronic Technology) and Can Tao (Guilin University of Electronic Technology)
Research on the Cultivation Path of Craftsman Spirit in Higher Vocational Students .217 Yongliang Li (Shandong Transport Vocational College)
Research on the Influence of E-commerce Non-subjective Fault Behavior on Consumers' Repurchase Intention .221. Xin Liu (The University of Warwick), Hui Xu (University of Perpetual Help System DALTA), Pengcheng Xue (Inje University), Xiaohan Liu (Shandong University), and Zhuochun Xu (Huaiyin Institute of Technology)

Research on Higher Vocational Teaching Quality Improvement Based on Educational Big Data .227 Ya Wang (Shanghai Urban Construction Vocational College) and Yanmei Yang (Suqian Xinxiu Internet Co., Ltd.)
Simulation for Cascading Failure in Barabási–Albert Network: A Cellular Automata Approach .231 Jun Zhang (National University of Defense Technology), Xinli Xiong (National University of Defense Technology), Yongjie Wang (National University of Defense Technology), and Jingye Zhang (National University of Defense Technology)
Online Transaction Detection Method Using Catboost Model .236 Yunlong Li (Wuyi University), Yingan Mai (Wuyi University), Zijian Lin (Wuyi University), and Shufen Liang (Wuyi University)
EEG-based Recognition of Fatigue Driving on Highway .241 Xu Luo (Northeastern University) and Hong Wang (Northeastern University)
Multi-turn Dialogue System Based on Improved Seq2Seq Model .245 Zhonghe Han (Chinese Academy of Sciences) and Zequn Zhang (Chinese Academy of Sciences)
BERT-IAN Model for Aspect-based Sentiment Analysis 250. Huibing Zhang (Guilin University of Electronic Technology), Fang Pan (Guangxi Normal University), Junchao Dong (Guilin University of Electronic Technology), and Ya Zhou (Guilin University of Electronic Technology)
Online Course Quality Evaluation Based on BERT .255. Ya Zhou (Guilin University of Electronic Technology) and Meng Li (Guilin University of Electronic Technology)
Efficient Network Compression through Smooth-Lasso Constraint .259 Xiaowei Ye (Hohai University), Ning Xu (Hohai University), Xiaofeng Liu (Hohai University), Xiao Yao (Hohai University), and Aiming Jiang (Hohai University)
Semantic-based Early Warning System for Equipment Maintenance .264 Daoqu Geng (Chongqing University of Posts and Telecommunications) and Qilin Liu (Chongqing University of Posts and Telecommunications)
Three-dimensional Reconstruction of the Semantic Terrain of Rescue Equipment Walking .268 Peng Zhang (Army Engineering University of PLA), Yi Xiao (Army Engineering University of PLA), Xinqing Wang (Army Engineering University of PLA), and Honghui Xu (Army Engineering University of PLA)
Organization and Implementation of Mixed Online Teaching Based on Rain Classroom and Tencent Classroom .275 Shijin Li (Yunnan University of Finance and Economics), Fucai Wang (Yunnan Business Information Engineering School), Yijia Gao (Yunnan University of Business Management), and Ting Shi (Yunnan Business Information Engineering School)
The Vocational Skills Competition Based on Big Data Analysis Promotes the Research of Students' Vocational Ability .279 Qiliang Hu (Anhui Business and Technology College)

Data Visualization and Its Implementation of Civil Service Jobs Based on Python .283 Dawei Xiang (Hubei University of Police), Danli Lei (Hubei University of Police), and Yanbo Wu (Hubei University of Police)
Environment Monitoring System for Tobacco Storage Based on IOT and Neural Network .288 Dagui Chen (Fuzhou University) and Donghai Liu (Fuzhou University)
Ontology Construction for Security Analysis of Network Nodes 292 Kai Zhang (National University of Defense Technology) and Jingju Liu (National University of Defense Technology)
Computer Vision and Artificial
Research on Automatic Test Method of Computer-Based Interlocking System .298 Jinlong Qian (China Academy of Railway Sciences Corporation Limited), Wei Guo (China Academy of Railway Sciences Corporation Limited), Hongtao Zhang (China Academy of Railway Sciences Corporation Limited), and Xiaona Li (China Academy of Railway Sciences Corporation Limited)
A Survey on GAT-like Graph Neural Networks .303 Sikun Guo (Nankai University)
Learning Spread Probability Based on User's Influence and Flavour .309 Zhaorui Chen (Southwest University) and Xiaomeng Wang (Southwest University)
Design of Postoperative Visual Acuity Prediction Program Based on Machine Learning before Cataract Surgery .314 Shuxian Liu (Xinjiang University)
An Encryption and Decryption Algorithm Based on Random Dynamic Hash and Bits Scrambling .317 Guanghui Feng (Zhuhai College of Jilin University), Chunfu Zhang (Zhuhai College of Jilin University), Yujuan Si (Jilin University), and Liuqi Lang (Zhuhai College of Jilin University)
Support Vector Machine Based Diagnosis of Breast Cancer .321 Mingqi Chen (Liaoning Shihua University) and Yinshan Jia (Liaoning Shihua University)
Behavior Detection Method of OpenPose Combined with Yolo Network .326 Wei Lin (Fuzhou University) and Jiangtao Ding (Fuzhou University)
Effective Factors Analysis on Camera Calibration .331 Zhen-wei Wang (University of Electronic Science and Technology of China), Hong-sheng Shi (University of Electronic Science and Technology of China), and Dan-lan Lin (University of Electronic Science and Technology of China)
Design and Implementation of Tibetan-Chinese Dictionary System Based on iOS .335 Hui Cao (Northwest Minzu University) and Qian Li (Northwest Minzu University)
Uniform Sound Field Reconstruction Algorithm Based on Total Least Squares in Non-Free Field .339 Dengqiang Li (University of Science and Technology of Shandong) and
Hongliang Zhang (University of Science and Technology of Shandong)

Safety Helmet Wearing Detection Based on Image Processing and Deep Learning .343 Wei Zhang (Harbin Institute of Technology), Chi-fu Yang (Harbin Institute of Technology), Feng Jiang (Harbin Institute of Technology), Xian-zhong Gao (National University of Defense Technology), and Xiao Zhang (Chengde Chenggang Engineering Technology Co., Ltd.)
An Integrated Energy System Optimization Method Considering Q Learning Algorithm .348 Yongli Wang (North China Electric Power University), Shuquan Li (State Grid Corporation Customer Service Center), Daomin Qu (State Grid Corporation Customer Service Center), Shaokun Jia (Beijing Fibrlink Communication Co., Ltd. Tianjin Branch), Xincan Gan (State Grid Information & Telecommunication Corporation), Yuze Ma (North China Electric Power University), and Yaling Sun (North China Electric Power University)
A Path Planning Algorithm of Spray Robot Based on 3D Point Cloud .353 Jubo Yang (Harbin Institute of Technology), Minxiu Kong (Harbin Institute of Technology), and Rundong Wang (Harbin Institute of Technology)
Research on Cybersecurity Risk Assessment in SCADA Networks Based on AHP-RSR .361 Jing Lan (Dongguan Univ. of Technology)
Simulation Analysis of Wire Rope Drawing Based on Abaqus .365 Meili Dai (Rizhao Polytechnic)
Attendance System Based on Dynamic Face Recognition .368 Shizhen Huang (Fuzhou University) and Haonan Luo (Fuzhou University)
Automatic Identification and Defect Diagnosis of Transmission Line Insulators Based on YOLOv3 Network .372 Yangyang Bao (Shanghai Dianji University) and Tian Chen (Shanghai Dianji University)
Research on Service Path Configuration Method Based on Shamir Algorithm .37.6 Ming Gao (Zhejiang Gongshang University) and Lili Ying (Zhejiang Gongshang University)
Research Status and Prospects of Deep Learning in Medical Images .380 Chao Liang (Shanghai Dianji University) and Shaojie Xin (Shanghai Dianji University)
Real-time Online Transmission System for Slope Runoff and Sediment Content .383 Shao-jie Zhang (Zhoukou Vocational and Technical College) and Kuang-wei Zhang (Zhoukou Vocational and Technical College)
Simulation Research on Pipeline Map System Based on Multi-robot Queue Cooperation .387 Kuang-wei Zhang (Zhoukou Vocational and Technical College), Shao-jie Zhang (Zhoukou Vocational and Technical College), Yan Chen (Kunming University of Science and Technology), Hong Pan (Kunming University of Science and Technology), and Chen-guang Zhang (Kunming University of Science and Technology)
Design of Network Information Service Platform for Intelligent Agricultural Industry Chain.391 Kai Shi (Shandong Transport Vocational College)
Design of Bar Code Automatic Identification System Based on Mobile Terminal .395 Jing Luo (Guangzhou Nanyang Polytechnic College)

Mutual Transformation between Vertical Sediment Amount and Vertical Diluted Amount .398 Dongfang Yang (Xijing University), Danfeng Yang (Fudan University), Dong Yang (Xijing University), Dongmei Jing (Xijing University), and Haixia Li (Xijing University)
Research on Sparse Channel Estimation Algorithm Based on MIMO-OFDM System .403 Wei Xu (Tianjin Polytechnic University) and Zhe Zhao (Tianjin Polytechnic University)
Study on Die Casting Speed Control Based on Neural Network .407 Zhengsi Wu (Jimei University), Yifeng Wu (Fuzhou University), and Enlai Zhang (Jimei University)
Research on Rape Image Automatic Segmentation Method Based on RGB Color Space .411 Li-Xin Tan (Hunan College of Information) and Yu-Tian Li (Hunan Agricultural University)
Single Side-band Modulation Algorithm of Aarametric Array Based on Iterative Hilbert Transform 416 Dekai Sun (Shandong University of Science and Technology) and Hongliang Zhao (Shandong University of Science and Technology)
An Automatic Column Welding Test Device Controlled by an Industrial Computer and PLC .421 Zhehao Ding (Shanghai DianJi University), Tian Chen (Shanghai DianJi University), and Qihang Zhang (Shanghai DianJi University)
Intelligent Commodity Settlement System Based on Embedded Equipment and Convolutional Neural Network .425 Fushan Li (Fuzhou University) and Lan Luo (Fuzhou University)
O2O Integrated AI Precise Poverty Alleviation Plan .429 Shih-Feng Chang (Nanfang College of Sun Yat-Sen University), Hui Ding (Nanfang College of Sun Yat-Sen University), Min-Qi Huang (Nanfang College of Sun Yat-Sen University), Yong-Lin Tan (Nanfang College of Sun Yat-Sen University), Jun-Jie Chen (Nanfang College of Sun Yat-Sen University), and Zhi-Tao Huang (Nanfang College of Sun Yat-Sen University)
Data Association Rules Mining Method Based on RBF Neural Network Optimization Algorithm .433 Tianyu Xia (Jinan University), Zhanghao Ye (Zhengzhou University), Haoning Wu (Wuhan University), and Yiding Liu (Peking University)
Design of Convolutional Neural Network SoC System Based on FPGA .437 Wei Lin (Fuzhou University) and Lei Zhang (Fuzhou University)
Invoice Code Recognition System Based on FPGA Acceleration .440 Shizhen Huang (Fuzhou University), HongHuang Huang (Fuzhou University), and Guowei Huang (Fuzhou University)
Vehicle Brand Classification Method Based on PCA-NET under Complex Background .445 Jianqiu Chen (University of New South Wales)
An Algorithm for the Hole Filling of Motion Foreground Based on Superpixel Segmentation .450 Guoqing Qiu (Chongqing University of Posts and Telecommunication), Yantao Wang (Chongqing University of Posts and Telecommunication), and Yating Wei (Chongqing University of Posts and Telecommunication)

Intelligent Management Strategy of Power Wireless Heterogeneous Network Link Based on Traffic Balance 454

Iraffic Balance 454
Ping Ma (State Grid Zhejiang Electric Power Co. Ltd. Shaoxing Power
Supply Company), Wei-ping Shao (State Grid Zhejiang Electric Power Co.
Ltd. Shaoxing Power Supply Company), Lei Zhang (State Grid Zhejiang
Electric Power Co. Ltd. Shaoxing Power Supply Company), De-sheng Wu
(NARI Group Corporation/State Grid Electric Power Research Institute),
and Tao Lu (NARI Group Corporation/State Grid Electric Power Research
Institute)
A Survey on Image Semantic Segmentation Methods with Convolutional Neural Network .458 Fude Cao (Shandong Institute of Commerce & Technology) and Qinghai Bao (China Railway Jinan Group Co., Ltd.)
Modeling Regional Interdependence in Business Data Based on Machine Learning Method .463 Yuhe Zhu (Beihang University)
Aeroengine Remaining Life Prediction Algorithm Based on Improved Differential Time Domain Features and LSTM .470 Zhang Yue (Air Force Aviation University)
Analysis on Approaches and Structures of Automated Machine Learning Frameworks .47.4 Peixuan Ge (Virginia Tech)

Author Index 479