



电子科技大学

学报

JOURNAL OF UNIVERSITY OF ELECTRONIC SCIENCE AND TECHNOLOGY OF CHINA 第51卷 第4期 Vol. 51 No.4

ISSN 1001-0548



2022
CHENGDU CHINA

中国 成都

电 子 科 技 大 学 学 报

主 编: 周 涛 副 主 编: 蒋 晓 责任编辑: 叶 芳

第51卷 第4期 2022年7月

目 次

・量子信息专栏・

本期"量子信息"专栏评述 专栏编委会	(481)	
诱骗态量子密钥分发中不可区分假设的合理性和安全性验证	(482)	
基于 Bell 态的两方互认证量子密钥协商协议	(488)	
・生物信息专栏・		
本期"生物信息"专栏评述 专栏编委会	(493)	
细胞穿膜肽识别问题的多特征融合卷积网络预测算法 ····································	(494)	
心外科手术患者重症监护室住院时间预测模型研究 张 平,吴念悦,张浩天,李功利,刘加林,李 科	(500)	
·成电青年学者·信息与通信工程专栏·		
降维 STAP 中稀疏恢复的角度多普勒通道选择方法 ························· 史靖希,程子扬,何子述,张 伟,陆晓莹	(506)	
不同基站计算架构 Massive MIMO 基带能效建模和趋势研究 ····································	(514)	
・通信与信息工程・		
面向区域导航增强的低轨卫星星座设计 陈 林,李 楷,靳云迪,林静然,邵怀宗	(522)	
存在载频误差下的多普勒频移定位算法	(529)	
・自动化技术・		
智能车载 DCU 数据高效传输及变步长提取 ····································	(535)	
针对电力系统薄弱状态的自动攻击策略	(542)	
基于 VMD 和 TCN 的多尺度短期电力负荷预测 刘 杰,金勇杰,田 明	(550)	
·计算机工程与应用·		
基于梯度相似性的自动作文评分多主题联合预训练方法 李晨亮,吴鸿涛	(558)	
融合语义及边界信息的中文电子病历命名实体识别 崔少国,陈俊桦,李晓虹	(565)	
异构有向传感器网络连通覆盖调度算法 李 明,胡江平,曹晓莉	(572)	
面向特征生成的无监督域适应算法 吴子锐,杨之蒙,蒲晓蓉,徐 杰,曹 晟,任亚洲	` ′	
基于多尺度特征预测的异常事件检测 ······ 王 军	, ,	
基于事件模式及类型的事件检测模型 ······代 翔	` /	
基于人眼亮度感知的 S 型函数图像对比度增强算法 ····································		
融合元路径学习和胶囊网络的社交媒体谣言检测方法 刘 楠、张凤荔、王瑞锦、张志扬、赖金山	` ′	
基于深度图卷积网络的社交机器人识别方法	(615)	
・复杂性科学专栏・		
地铁乘客站点的选择行为分析及预测 王 璞,肖健和,李明伦,郭 宝	` ′	
基于站点线路数的城市公交网络鲁棒性研究	(630)	

JOURNAL OF UNIVERSITY OF ELECTRONIC SCIENCE AND TECHNOLOGY OF CHINA

Vol.51 No.4 Jul. 2022

CONTENTS

 Special Section on Quantum Information 	
Comments to Special Topic Articles · · · · Editorial Board of Special Topic	(481)
Rationality and Security Verification of Indistinguishability Assumption in Decoy-State Quantum Key Distribution	
CHEN Xiaoming, CHEN Lei, and YAN Yalong	(482)
Two-Party Mutual Authentication Quantum Key Agreement Protocol Based on Bell States · · · · · · · · · · · · · · · · · · ·	
····· HE Yefeng, DI Man, PANG Yibo, YUE Yuru, LI Guoqing, and LIU Jixiang	(488)
Contain Contain Plate Contain	
• Special Section on Bioinformatics •	(402)
Comments to Special Topic Articles Editorial Board of Special Topic	(493)
Integrating Multiple Feature Representations in the Convolution Neural Network Prediction Algorithm for the Cell-Penetrating	(40.4)
Peptides	(494)
Prediction Model of Intensive Care Unit Length of Stay for Patients with Cardiac Surgery	
ZHANG Ping, WU Nianyue, ZHANG Haotian, LI Gongli, LIU Jialin, and LI Ke	(500)
 Special Section for UESTC Youth: Information and Communication Engineering 	
Angle-Doppler Channel Selection Method via Sparse Recovery for Reduced-Dimension STAP	
SHI Jingxi, CHENG Ziyang, HE Zishu, ZHANG Wei, and LU Xiaoying	(506)
Energy Efficiency Modeling of Massive MIMO Baseband Processing with Different Base Station Computing Architectures ····	()
DENG Ailin, FENG Gang, and LIU Mengjie	(514)
	(-)
• Communication and Information Engineering •	
LEO Satellite Constellation Design for Regional Navigation Augmentation	
····· CHEN Lin, LI Kai, JIN Yundi, LIN Jingran, and SHAO Huaizong	(522)
Source Localization Using Doppler Frequency Shift with Erroneous Carrier Frequency	
ZHOU Cheng, MA Congshan, YING Tao, and MAN Xin	(529)
• Automation Techniques •	
Efficient Transmission and Variable Step Extraction for Data in Intelligent Vehicle Domain Controller	
ZHANG Zhen, TONG Bin, FU Jianjun, YUAN Zheng, YU Hongying, and CHEN Yong	(535)
Automatic Attack Strategy for Weak State of Power System	(542)
Multi-Scale Short-Term Load Forecasting Based on VMD and TCN LIU Jie, JIN Yongjie, and TIAN Ming	
Width-Scale Short-Term Load Polecasting Based on VIVID and TCN	(550)
 Computer Engineering and Applications 	
A Gradient-Similarity Based Multi-Topic Jointly Pre-Training Method for Automated Essay Scoring	
LI Chenliang and WU Hongtao	(558)
Named Entity Recognition for Chinese Electronic Medical Record by Fusing Semantic and Boundary Information	
	(565)
Connected Coverage Scheduling Algorithm for Heterogeneous Directional Sensor Networks	
LI Ming, HU Jiangping, and CAO Xiaoli	(572)
Unsupervised Feature-Level Domain Adaptation with Generative Adversarial Networks	, ,
	(580)
Abnormal Event Detection Based on Multi-Scale Features Prediction WANG Jun	(586)
Event Detection Model Based on Event Pattern and Type Bias	(592)
Image Contrast Enhancement Algorithm with S-Type Function Based on Human Visual System	(372)
WANG Yizhu, LI Yuan, and YANG Yu	(600)
	(600)
Rumor Detection Based on Meta-Path Learning and Capsule Network	(600)
LIU Nan, ZHANG Fengli, WANG Ruijin, ZHANG Zhiyang, and LAI Jinshan	(608)
Social Bot Identify Method Based on Deep Graph Convolutional Network · · · · · MAO Wenqing and XU Yabin	(615)
• Complexity Sciences •	
Analyzing and Predicting Station Choice Behavior of Subway Passengers · · · · · · · · · · · · · · · · · · ·	
WANG Pu, XIAO Jianhe, LI Minglun, and GUO Bao	(623)
Study on the Robustness of Urban Bus Network Based on the Number of Lines at a Station · · · · · · · · · · · · · · · · · · ·	
XIE Yiran, LI Guohua, and YANG Bo	(630)