

CETC



ISSN 1673-5692
CN 11-5401/TN

Vol. 17 No. 2 Feb. 2022

总第 118 期 (月刊)

全国中文核心期刊



QK2215702

中国电子科学研究院学报

JOURNAL OF CHINA ACADEMY OF ELECTRONICS AND INFORMATION TECHNOLOGY

2022 第 17 卷第 2 期
02

ISSN 1673-5692



771673569224

中国电子科学研究院

China Academy of Electronics and Information Technology

万方数据

中国电子科学研究院学报

第 17 卷 第 2 期 2022 年

目 次

智能无人

- 深度学习技术对侦察情报的影响研究 孟春宁(105)
- 国外水下无人潜航器及其通信技术发展综述
..... 楚立鹏,鄢宏华,范 强,付圣峰,王永皎,张 博,梁萱卓(112)
- 可见光传感器无人机目标查证动态航路规划研究 陈 辉,董 晶,刘云龙(119)
- 国外人工智能技术在情报领域的应用研究 线珊珊(124)

综 述

- 开源事件库的对比和评估研究 李志鹏,高振远,周 阳,马 政,胡志强,石 珺,易 勇(129)
- 数据驱动的态势认知技术及发展思考..... 袁 翔,左 毅,王 菁,李婷婷,孟祥夏,吴云超(134)
- 量子计算发展与应用动向研究 刘轶男,杨 巍,魏 凡(141)
- 美军分布式作战体系及实战化运用发展分析 赵新路,韩志强,李 兵,熊西军,何亚军(149)

工程应用

- 基于无服务器架构的云原生应用软件研究 张国生(155)
- 对一种基于动态 S 盒与混沌映射的图像加密算法的安全分析与改进 朱淑芹,李秀娟,李若玉(162)
- 电离层衰落特性分析 郭晓彤,王 严,陈 馨,华彩成(170)
- 电子通信信号抗干扰循环频率特征提取算法研究 李相敏,李相宇,鄢仁生(175)
- 战术互联网半实物仿真研究 王 莉,李 浩,刘 敏,崔建岭(181)
- 基于 KNN 和雷达辐射源脉间参数的舰船目标个体识别方法
..... 顾 鹏,王碧垚,黄黔川,李 伟,张明阳(186)
- 战场实时综合态势信息分发技术研究 许银龙,都安平(193)
- 基于时空耦合的时空网格快速伴随研究 黄晓雄,赖 伟,史 超(199)

Journal of China Academy of Electronics and Information Technology

Vol. 17 No. 2 2022

MAIN CONTENTS

Intelligent Unmanned

- Study on the Impact of Deep Learning on Reconnaissance and Intelligence MENG Chun-ning(105)
- Overview of Unmanned Underwater Vehicles and The Communication Technologies Abroad
..... CHU Li-peng, YAN Hong-hua, FAN Qiang, FU Sheng-feng, WANG Yong-jiao, ZHANG Bo, LIANG Xuan-zhuo(112)
- Research on Dynamic Route Planning for Target Verification of UAV with Visible Light Sensor
..... CHEN Hui, DONG Jing, LIU Yun-long(119)
- Research on the Application of Artificial Intelligence Technology in Intelligence Field Abroad XIAN Shan-shan(124)

Reviews

- Research on Comparison and Evaluation of Open-Source Event Databases
..... LI Zhi-peng, GAO Zhen-yuan, ZHOU Yang, MA Zheng, HU Zhi-qiang, SHI Jun, YI Yong(129)
- Data-driven Situation Cognition Technology and Development Idea
..... YUAN Xiang, ZUO Yi, WANG Jing, LI Ting-ting, MENG Xiang-xia, WU Yun-chao(134)
- Research on the Development and Application Trend of Quantum Computation LIU Yi-nan, YANG Wei, WEI Fan(141)
- Analysis of the U. S. Military's Distributed Combat System and Actual Combat Application Development
..... ZHAO Xin-lu, HAN Zhi-qiang, LI Bing, XIONG Xi-jun, HE Ya-jun(149)

Engineering and Application

- Research on Cloud Native Application Software Based on Serverless Architecture ZHANG Guo-sheng(155)
- Security Analysis and Improvement of an Image Encryption Algorithm Based on Dynamic S-box and Chaotic Map
..... ZHU Shu-qin, LI Xiu-juan, LI Ruo-yu(162)
- Analysis of Ionospheric Fading Characteristic GUO Xiao-tong, WANG Yan, CHEN Xin, HUA Cai-cheng(170)
- Research on Extraction Algorithm of Anti-jamming Cyclic Frequency Feature of Electronic Communication Signal
..... LI Xiang-min, LI Xiang-yu, YAN Ren-sheng(175)
- Research on Hardware-in-the-loop Simulation of Tactical Internet based WANG Li, LI Hao, LIU Min, CUI Jian-ling(181)
- Ship Target Individual Identification Method Based On KNN and Inter-pulse Parameters of Radar Emitter
..... GU Peng, WANG Bi-yao, HUANG Qian-chuan, LI Wei, ZHANG Ming-yang(186)
- Research on Distributing Technology of Real-Time Comprehensive Situation Information in Battlefield
..... XU Yin-long, DU An-ping(193)
- Research of Spatial-Temporal Grid Fast Accompany Based on Spatial-Temporal Coupling
..... HUANG Xiao-xiong, LAI Wei, SHI Chao(199)



Competent Authority: China Electronics Technology Group Corporation
Sponsor: China Academy of Electronics and Information Technology
Chief Editor: ZHOU Bin
Add: Editorial Office of Journal of CAEIT (POBox 2518, Beijing 100041, China)
Tel: 86-10-50911322 **Fax:** 86-10-88791693
E-mail: dkyxuebao@cetc.com.cn **Magazine Code:** ISSN 1673-5692
CN 11-5401/TN
Single Issue Price: ¥ 30.00

欢迎关注 学术plus



《中国电子科学研究院学报》(中文核心期刊)在坚持“注重研究成果,提升学术水平”的办刊宗旨基础上,2016年先后推出学报在线采编系统、微信公众号平台等,大踏步地将传统学术期刊与新型传播形式相结合,强烈拥抱新型媒体,努力打造中国信息与电子前沿技术的新型学术传播、交流平台。

编辑部地址:北京市石景山区双园路11号

电 话:010-50911322

邮 箱:dkyxuebao@cetc.com.cn

网 址:<http://kjpl.cbpt.cnki.net>