

电子与信息学报

DIANZI YU XINXI XUEBAO

第 46 卷 第 10 期 2024 年 10 月

目 次

面向开放环境的自适应智能感知与持续学习研究进展专题

- 面向SAR目标识别成像参数敏感性的深度学习技术研究进展 何奇山, 赵凌君, 计科峰, 匡纲要 (3827)
- 深度模型的持续学习综述: 理论、方法和应用 张东阳, 陆子轩, 刘军民, 李澜宇 (3849)
- 类别数据流和特征空间双分离的类增量学习算法 云 涛, 潘 泉, 刘 磊, 白向龙, 刘 宏 (3879)
- 结合未知类特征生成与分类得分修正的SAR目标开集识别方法 陈 健, 雍奇锋, 杜 兰, 尹林伟 (3890)
- 采用自适应预筛选的遥感图像目标开集检测研究 党思航, 李晓哲, 夏召强, 蒋晓悦, 桂术亮, 冯晓毅 (3908)
- SAR目标增量识别中基于最大化非重合体积的样例挑选方法 李 斌, 崔宗勇, 汪浩瀚, 周 正, 田 宇, 曹宗杰 (3918)
- 小样本SAR目标的双重一致性因果识别方法 王陈炜, 罗思懿, 黄钰林, 裴季方, 张 寅, 杨建宇 (3928)
- 自监督解耦动态分类器的小样本类增量SAR图像目标识别 赵 琰, 赵凌君, 张思乾, 计科峰, 匡纲要 (3936)
- 基于频谱地图重构的辐射源识别 王雪刚, 王方刚, 王意卓 (3949)
- 通信干扰信道和功率智能决策算法 周 成, 林 苗, 马丛珊, 应 涛, 满 欣 (3957)
- 接收域分离的跨接收系统通用性辐射源指纹识别 孙丽婷, 柳 征, 黄知涛 (3966)
- 面向遥感图像解译的增量深度学习 翁星星, 庞 超, 许博文, 夏桂松 (3979)

无线通信与物联网

- 可重构智能超表面辅助的大规模机器类通信深度学习大规模MIMO信道估计 刘 婷, 王 媛, 辛元雪 (4002)
- 支持无线采能及簇间负载均衡的无人机辅助数据调度及轨迹优化算法 柴 蓉, 李沛欣, 梁承超, 陈前斌 (4009)
- 强干扰环境下无速率随机码编译码方案及其性能分析 王义文, 王千帆, 马 啸 (4017)
- 信息年龄约束下的无人机数据采集能耗优化路径规划算法 高思华, 刘宝煜, 惠康华, 徐伟峰, 李军辉, 赵炳阳 (4024)

雷达与导航

利用伯努利滤波的多目标机动雷达误差配准方法 邓洪高, 余润华, 纪元法, 吴孙勇, 孙希延 (4035)

改进变分模态分解与多特征的通信辐射源个体识别方法 刘高辉, 席宏恩 (4044)

利用部分可信信号的导航终端欺骗干扰检测方法 王环宇, 林红磊, 欧 钢, 唐小妹 (4053)

图像与智能信息处理

一种基于人体轮廓形变场的双流网络步态识别方法 霍 威, 王 科, 唐 俊, 王 年, 梁 栋 (4062)

电路与系统设计

两种面向宇航应用的高可靠性抗辐射加固技术静态随机存储器单元
..... 闫爱斌, 李 坤, 黄正峰, 倪天明, 徐 辉 (4072)

JOURNAL OF ELECTRONICS & INFORMATION TECHNOLOGY

Vol.46 No.10 October 2024

CONTENTS

Special Topic on Adaptive Intelligent Perception and Continuous Learning for Open Environments

Research Progress of Deep Learning Technology for Imaging Parameter Sensitivity of SAR Target Recognition	HE Qishan, ZHAO Lingjun, JI Kefeng, KUANG Gangyao	(3827)
A Survey of Continual Learning with Deep Networks: Theory, Method and Application	ZHANG Dongyang, LU Zixuan, LIU Junmin, LI Lanyu	(3849)
A Class Incremental Learning Algorithm with Dual Separation of Data Flow and Feature Space for Various Classes	YUN Tao, PAN Quan, LIU Lei, BAI Xianglong, LIU Hong	(3879)
An Open Set Recognition Method for SAR Targets Combining Unknown Feature Generation and Classification Score Modification	CHEM Jian, YONG Qifeng, DU Lan, YIN Linwei	(3890)
Research on Open-Set Object Detection in Remote Sensing Images Based on Adaptive Pre-Screening	DANG Sihang, LI Xiaozhe, XIA Zhaoqiang, JIANG Xiaoyue, GUI Shuliang, FENG Xiaoyi	(3908)
Exemplar Selection Based on Maximizing Non-overlapping Volume in SAR Target Incremental Recognition	LI Bin, CUI Zongyong, WANG Haohan, ZHOU Zheng, TIAN Yu, CAO Zongjie	(3918)
A Causal Interventional SAR ATR Method with Limited Data via Dual Consistency	WANG Chenwei, LUO Siyi, HUANG Yulin, PEI Jifang, ZHANG Yin, YANG Jianyu	(3928)
Few-Shot Class-Incremental SAR Image Target Recognition using Self-supervised Decoupled Dynamic Classifier	ZHAO Yan, ZHAO Lingjun, ZHANG Siqian, JI Kefeng, KUANG Gangyao	(3936)
Specific Emitter Identification Based on Radio Environment Map Reconstruction	WANG Xuegang, WANG Fanggang, WANG Yizhuo	(3949)
Intelligent Decision-making for Selection of Communication Jamming Channel and Power	ZHOU Cheng, LIN Qian, MA Congshan, YING Tao, MAN Xin	(3957)
Universal Radio Frequency Fingerprinting across Receiving Systems Using Receiving Domain Separation	SUN Liting, LIU Zheng, HUANG Zhitao	(3966)
Incremental Deep Learning for Remote Sensing Image Interpretation	WENG Xingxing, PANG Chao, XU Bowen, XIA Guisong	(3979)

Wireless Communication and Internet of Things

Deep Learning-enhanced Massive Channel Estimation for Reconfigurable Intelligent Surface-aided Massive Machine-Type Communication	LIU Ting, WANG Yuan, XIN Yuanxue	(4002)
Wireless Energy Harvest and Inter-Cluster Load Balancing-Enabled UAV-Assisted Data Scheduling and Trajectory Optimization Algorithms	CHAI Rong, LI Peixin, LIANG Chengchao, CHEN Qianbin	(4009)
Rateless Random Coding Scheme and Performance Analysis in Strong Interference Environments	WANG Yiwen, WANG Qianfan, MA Xiao	(4017)
Energy-Efficient UAV Trajectory Planning Algorithm for AoI-Constrained Data Collection	GAO Sihua, LIU Baoyu, HUI Kanghua, XU Weifeng, LI Junhui, ZHAO Bingyang	(4024)

(To be continued on inside back cover)

(Continued)

Radars and Navigation

- Mobile Radar Registration with Multiple Targets Based on Bernoulli Filter
..... *DENG Honggao, YU Runhua, JI Yuanfa, WU Sunyong, SUN Xiyan* (4035)

- Individual Identification Method for Communication Emitters Based on Improved Variational Modal Decomposition and
Multiple Features *LIU Gaohui, XI Hongen* (4044)

- The Spoofing Detection Method of Navigation Terminal Using Partial Authenticated Signals
..... *WANG Huanyu, LIN Honglei, OU Gang, TANG Xiaomei* (4053)

Image and Intelligent Information Processing

- A Dual-stream Network Based on Body Contour Deformation Field for Gait Recognition
..... *HUO Wei, WANG Ke, TANG Jun, WANG Nian, LIANG Dong* (4062)

Circuit and System Design

- Two Highly Reliable Radiation Hardened By Design Static Random Access Memory Cells for Aerospace Applications
..... *YAN Aibin, LI Kun, HUANG Zhengfeng, NI Tianming, XU Hui* (4072)