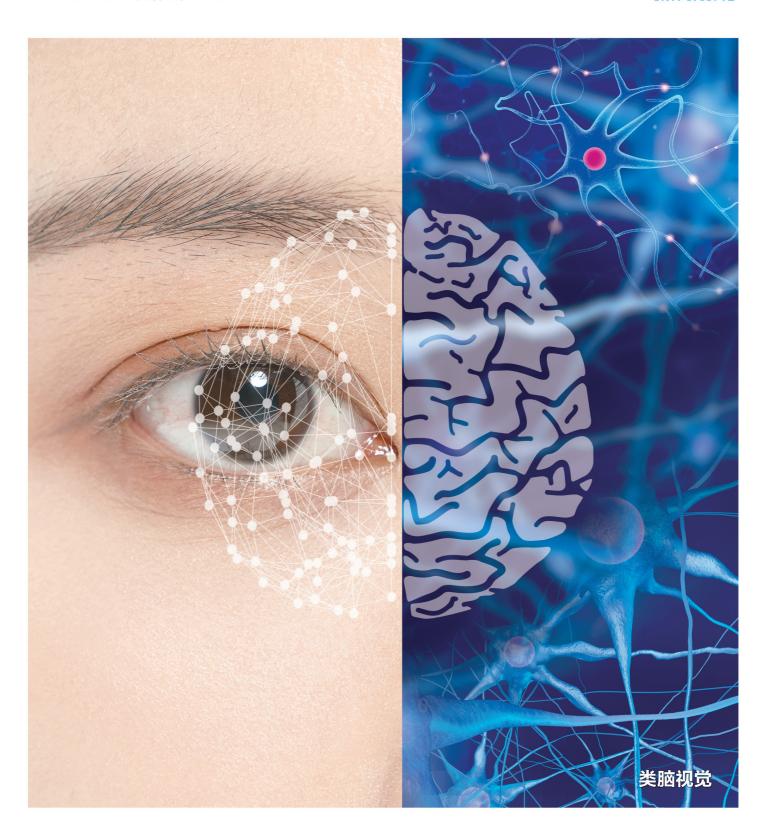


## 中国图象图形学报

2023 02 VOL.28

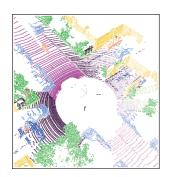
ISSN1006-8961 CN11-3758/TB

主办:中国科学院空天信息创新研究院中国图象图形学学会 北京应用物理与计算数学研究所

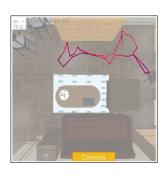




结合感受野模块与并联RPN网 络的火焰检测(第0418页)



融合稀疏注意力和实例增强 的雷达点云分割(第0483页)



面向室内场景的主被动融合 视觉定位系统(第0522页)

突排	凶视:	苋		

《中国图象图形学报》类脑视觉专栏简介
黄铁军,韩军伟,何晖光,李永杰,唐华锦,吴思,杨玉超,余肇飞,张兆翔,赵地,韩向娣 ·· 0333 生物视觉系统的神经网络编码模型综述
郑雅菁,余肇飞,黄铁军 ····································
张祎晨,黄铁军 ·
<b>fMRI的视觉神经信息编解码方法综述</b> 杜长德,周琼怡,刘澈,何晖光 ····································
<b>面向图像识别的多层脉冲神经网络学习算法综述</b> 李雅馨,申江荣,徐齐
面向类脑计算的脉冲神经网络研究 霍兵强,高彦钊,祁晓峰 ····································
<mark>图像分析和识别</mark> 结合感受野模块与并联RPN网络的火焰检测
鲍文霞, 孙强, 梁栋, 胡根生, 杨先军
区域增强和多特征融合的X光图像违禁品识别 韩萍,杨慧,方澄 ••••••••••••••••••••••••••••••••••••
<b>低视点下遮挡自适应感知的多目标跟踪算法</b> 乐应英,徐丹,贺康建,张浩
稀疏约束的时空正则相关滤波无人机视觉跟踪
田昊东,张津浦,王岳环 ····································
正振学, 许喆铭, 雪洋洋, 郎丛妍, 李尊, 魏莉莉 ··································
图像理解和计算机视觉
融合稀疏注意力和实例增强的雷达点云分割 刘盛,曹益烽,黄文豪,李丁达 ····································
融合多尺度上下文信息的实例分割方法 万新军,周逸云,沈鸣飞,周涛,胡伏原 ····································
引导性权重驱动的图表问答重定位关系网络
黎颖,吴清锋,刘佳桐,邹嘉龙 ····································
谢挺,张晓杰,叶智超,王子豪,王政,张涌,周晓巍,姬晓鹏0522
结合Transformer与非对称学习策略的图像检索 <sub>贺超,魏宏喜</sub>
计算机图形学
基于线性变换球面分布的实时间接光泽反射
夏博,刘艳丽,曾威,蒲一磊,张严辞 ************************************
刘艳,寿华好,季康松
医学图像处理
深度学习下主流染色体分类算法的性能评估 易序晟,尹爱华,黄杰晟,彭璟,陈汉彪,郭莉,林成创,李双印,赵淦森 ····································
面向脑核磁共振识别运动任务的门控循环单元方法 袁振,侯玉亮,杜宇慧 ····································
面向大规模胸片图像的深度哈希检索
管安娜,刘骊,付晓东,刘利军,黄青松 ····································
<b>遥感图像处理</b> 高光谱图像非负稀疏分量分解建模与鲁棒性解混方法
汪顺清,杨劲翔,邵远天,肖亮 ······ 0613
<b>渐进式多尺度因果干预航拍图像分割</b> 周峰,杭仁龙,徐超,刘青山,杨国为 ····································

## **CONTENTS**JOURNAL OF IMAGE AND GRAPHICS



Flame detection combined with receptive field and parallel RPN(P0418)



LiDAR point cloud semantic segmentation combined with sparse attention and instance enhancement(P0483)



Visual localization system of integrated active and passive perception for indoor scenes (P0522)

Rrai	in-i	neni	ired	∣ V/ic	ion

A literature review for neural networks-based encoding models of biological visual system Zheng Yajing, Yu Zhaofei, Huang Tiejun	335
A review of detailed network simulation methods	
Zhang Yichen, Huang Tiejun0	358
Review of visual neural encoding and decoding methods in fMRI	
Du Changde, Zhou Qiongyi, Liu Che, He Huiguang0	372
A summary of image recognition-relevant multi-layer spiking neural networks learning algorithm	
Li Yaxin, Shen Jiangrong, Xu Qi	
Research on spiking neural networks for brain-inspired computing	,000
Huo Bingqiang, Gao Yanzhao, Qi Xiaofeng	1401
True bingqiang, dae ranzhae, si Alaereng	701
Image Analysis and Recognition	
Flame detection combined with receptive field and parallel RPN	140
Bao Wenxia, Sun Qiang, Liang Dong, Hu Gensheng, Yang Xianjun	1410
Region enhancement and multi-feature fusion for contraband recognition in X-ray images	400
Han Ping, Yang Hui, Fang Cheng	1430
An adaptive occlusion-aware multiple targets tracking algorithm for low viewpoint	
Yue Yingying, Xu Dan, He Kangjian, Zhang Hao0	)441
Sparse constraint and spatial-temporal regularized correlation filter for UAV tracking	
Tian Haodong, Zhang Jinpu, Wang Yuehuan ······· 0	)458
Global and spatial multi-scale contexts fusion for vehicle re-identification	
Wangzhenxue, Xu Zheming, Xue Yangyang, Lang Congyan, Li Zun, Wei Lili0	)471
Image Understanding and Computer Vision	
LiDAR point cloud semantic segmentation combined with sparse attention and instance enhance	nce-
ment	
Liu Sheng, Cao Yifeng, Huang Wenhao, Li Dingda ····································	)483
Multi-scale context information fusion for instance segmentation	
Wan Xinjun, Zhou Yiyun, Shen Mingfei, Zhou Tao, Hu Fuyuan0	)495
Leading weight-driven re-position relation network for figure question answering	
Li Ying, Wu Qingfeng, Liu Jiatong, Zou Jialong0	510
Visual localization system of integrated active and passive perception for indoor scenes	
Xie Ting, Zhang Xiaojie, Ye Zhichao, Wang Zihao, Wang Zheng, Zhang Yong, Zhou Xiaowei,	
Ji Xiaopeng	1522
Image retrieval based on transformer and asymmetric learning strategy	,022
He Chao, Wei Hongxi ····································	1535
The Orlady, Well Horlight	/555
Computer Graphics	
Real-time indirect glossy reflection based on linearly transformed spherical distributions	
Xia Bo, Liu Yanli, Zeng Wei, Pu Yilei, Zhang Yanci	15/15
	1343
Circle average nonlinear subdivision curve design with normal constraints	EEC
Liu Yan, Shou Huahao, Ji Kangsong 0	occi
Modical Image Processing	
Medical Image Processing	
Performance evaluation of mainstream chromosome recognition algorithms under deep learnin	_
Yi Xusheng, Yin AiHua, Huang Jiesheng, Peng Jing, Chen Hanbiao, Guo Li, Lin Chengchuang	g, 
Li Shuangyin, Zhao Gansen 0	)570
Gated recurrent unit method for motor tasks recognition using brain fMRI	
Yuan Zhen, Hou Yuliang, Du Yuhui ···································	)589
A deep hash retrieval for large-scale chest radiography images	
Guan Anna, Liu Li, Fu Xiaodong, Liu Lijun , Huang Qingsong ······ 0	0601
Remote Sensing Image Processing	
Non-negative sparse component decomposition based modeling and robust unmixing for hy	per-
spectral images	
Wang Shunqing, Yang Jingxiang, Shao Yuantian, Xiao Liang	613
Airborne image segmentation via progressive multi-scale causal intervention	
Zhou Feng, Hang Renlong, Xu Chao, Liu Qingshan, Yang Guowei	