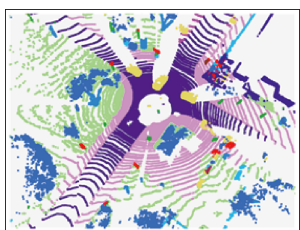


环视鱼眼图像处理深度学习
研究进展(第2778页)



结合空间深度卷积和残差
的大尺度点云场景分割
(第2848页)



曼哈顿世界环境下消失点非线
性优化估计算法(第2931页)

综述

深度对抗视觉生成综述

谭明奎, 许守恺, 张书海, 陈奇 2751

人机交互中的智能体情感计算研究

刘婷婷, 刘箴, 柴艳杰, 王瑾, 王媛怡 2767

环视鱼眼图像处理深度学习研究进展

包俊, 刘宏哲, 褚文博 2778

图像处理和编码

图像分解与色彩先验下的多曝光图像融合

李嫒源, 王琴, 朱智勤, 齐观秋 2800

双尺度分解和显著性分析相结合的红外与可见光图像融合

霍星, 邹韵, 陈影, 檀结庆 2813

轻量级注意力特征选择循环网络的超分重建

徐雯捷, 宋慧慧, 袁晓彤, 刘青山 2826

区域级通道注意力融合高频损失的图像超分辨率重建

周波, 李成华, 陈伟 2836

图像分析和识别

结合空间深度卷积和残差的大尺度点云场景分割

刘盛, 黄圣跃, 程豪豪, 沈家瑜, 陈胜勇 2848

细粒度图像分类的互补注意力方法

赵勋, 王家宝, 李阳, 王亚鹏, 苗壮 2860

联合分块谱带优选和深度特征的高光谱人脸识别

谢志华, 李毅, 牛杰一 2870

时空双仿射微分不变量及骨架动作识别

李琪, 墨瀚林, 赵婧涵, 郝宏翔, 李华 2879

多尺度分割先验迭代重加权低秩恢复显著性检测

张荣国, 郑维佳, 赵建, 胡静, 刘小君 2892

融合环境特征与改进YOLOv4的安全帽佩戴检测

葛青青, 张智杰, 袁琰, 李秀梅, 孙军梅 2904

图像理解和计算机视觉

关节轴角先验对3维人体重建结果的影响

姚砾, 张幼安, 张梦雪, 万燕 2918

曼哈顿世界环境下消失点非线性优化估计算法

韩冰心, 卢惠民, 于清华, 张礼廉 2931

双目机器视觉及RetinaNet模型的路侧行人感知定位

连丽容, 罗文婷, 秦勇, 李林 2941

遥感图像处理

遥感图像中油罐目标精确定位与参数提取

江哈, 张月婷, 郭嘉逸, 赵鑫, 李芳芳, 黄丽佳, 胡玉新, 雷斌, 丁赤飏 2953

参数合成空间变换网络的遥感图像一致性配准

陈颖, 张祺, 李文举, 石艳娇, 陈磊 2964

改进Mask R-CNN模型的海洋锋检测

徐慧芳, 黄冬梅, 贺琪, 杜艳玲, 覃学标 2981

噪声鲁棒的轻量级深度遥感场景图像分类检索

王亚鹏, 李阳, 王家宝, 赵勋, 苗壮 2991

改进U-Net型网络的遥感图像道路提取

杨佳林, 郭学俊, 陈泽华 3005

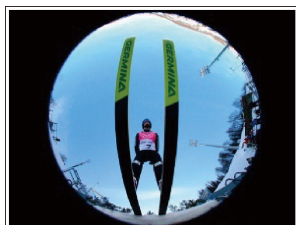
弱监督深度语义分割网络的多源遥感影像水体检测

李鑫伟, 李彦胜, 张永军 3015

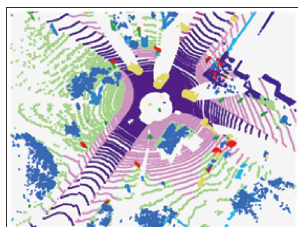
总目次 I

CONTENTS

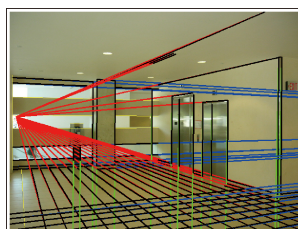
JOURNAL OF IMAGE AND GRAPHICS



Research progress of fisheye image processing based on deep learning(P2778)



A deep residual network with spatial depthwise convolution for large-scale point cloud semantic segmentation(P2848)



Vanishing point estimation based on non-linear optimization in manhattan world environments (P2931)

Review

A review on deep adversarial visual generation

Tan Mingkui, Xu Shoukai, Zhang Shuhai, Chen Qi 2751

Agent affective computing in human-computer interaction

Liu Tingting, Liu Zhen, Chai Yanjie, Wang Jin, Wang Yuanyi 2767

Research progress of fisheye image processing based on deep learning

Bao Jun, Liu Hongzhe, Chu Wenbo 2778

Image Processing and Coding

Multi-exposure image fusion based on image decomposition and color prior

Li Yuanyuan, Wang Qin, Zhu Zhiqin, Qi Guanqiu 2800

Dual-scale decomposition and saliency analysis based infrared and visible image fusion

Huo Xing, Zou Yun, Chen Ying, Tan Jieqing 2813

Lightweight attention feature selection recursive network for super-resolution

Xu Wenjie, Song Huihui, Yuan Xiaotong, Liu Qingshan 2826

Region-level channel attention for single image super-resolution combining high frequency loss

Zhou Bo, Li Chenghua, Chen Wei 2836

Image Analysis and Recognition

A deep residual network with spatial depthwise convolution for large-scale point cloud semantic segmentation

Liu Sheng, Huang Shengyue, Cheng Haohao, Shen Jiayu, Chen Shengyong 2848

Complemented attention method for fine-grained image classification

Zhao Xun, Wang Jiabao, Li Yang, Wang Yapeng, Miao Zhuang 2860

Hyperspectral face recognition based on partition bands optimal selection and deep features

Xie Zhihua, Li Yi, Niu Jieyi 2870

Spatio-temporal dual affine differential invariants for skeleton-based action recognition

Li Qi, Mo Hanlin, Zhao Jinghan, Hao Hongxiang, Li Hua 2879

Iterative reweighted low-rank recovery salient object detection with multiscale segmentation prior

Zhang Rongguo, Zheng Weijia, Zhao Jian, Hu Jing, Liu Xiaojun 2892

Safety helmet wearing detection method of fusing environmental features and improved YOLOv4

Ge Qingqing, Zhang Zhijie, Yuan Long, Li Xiumei, Sun Junmei 2904

Image Understanding and Computer Vision

The impact of joint axis angle prior on the results of 3D human body reconstruction

Yao Li, Zhang Youan, Zhang Mengxue, Wan Yan 2918

Vanishing point estimation based on non-linear optimization in manhattan world environments

Han Bingxin, Lu Huimin, Yu Qinghua, Zhang Lilian 2931

Roadside pedestrian detection and location based on binocular machine vision and RetinaNet

Lian Lirong, Luo Wenting, Qin Yong, Li Lin 2941

Remote Sensing Image Processing

Accurate localization and parameter extraction of oil tank in remote sensing images

Jiang Han, Zhang Yueting, Guo Jiayi, Zhao Xin, Li Fangfang, Huang Lijia, Hu Yuxin, Lei Bin, Ding Chibiao 2953

Consistent registration of remote sensing images in parametric synthesized spatial transformation network

Chen Ying, Zhang Qi, Li Wenju, Shi Yanjiao, Chen Lei 2964

Ocean front detection method based on improved Mask R-CNN

Xu Huifang, Huang Dongmei, He Qi, Du Yanling, Qin Xuebiao 2981

A robust lightweight deep neural network for remote sensing scene image classification and retrieval under label noise

Wang Yapeng, Li Yang, Wang Jiabao, Zhao Xun, Miao Zhuang 2991

Road extraction method from remote sensing images based on improved U-Net network

Yang Jialin, Guo Xuejun, Chen Zehua 3005

Weakly supervised deep semantic segmentation network for water body extraction based on multi-source remote sensing imagery

Li Xinwei, Li Yansheng, Zhang Yongjun 3015