近期工作 吴志涛

- 【1】.看轻量级 slam 有关论文
- 【2】.整理 slam 笔记

【1】.看轻量级 slam 有关论文

整理的轻量级 slam 有关论文,

https://github.com/atao153940/notebook/tree/main/collected%20papers/lightweight%20slam

VPS-SLAM: Visual Planar Semantic SLAM for Aerial Robotic Systems

关键词简介:轻量级,实时,语义视觉 slam,在无人机平台上运行;结构,提取语义的物体,然后在语义物体上提取平面,与 VO、VIO 结合;是 state of art 的 VO/VIO 算法+state of art 的物体检测器结合;估计位姿,同时建立语义地图;视频,https://vimeo.com/368217703;代码,https://bitbucket.org/hridaybavle/semantic_slam.git;期刊,IEEE Access;

A Depth Camera Based Lightweight Visual SLAM Algorithm

关键词简介:轻量级,视觉 slam,方法是,地图点管理,多线程设计,NEON 技术;地图点管理,只选择少量在多个帧中都匹配的点,作为稳定的特征点,进行位姿计算;来源,The 2017 4th International Conference on Systems and Informatics, ICSAI 2017;

A Rapid Optimization Method For Visual Indirect SLAM Using a Subset of Feature Points

关键词简介:对 ORB-SLAM2 改进,对提取到的 ORB 特征点按比例随机采样,减少数量,提高速度;来源,2019 7th International Symposium on Computing and Networking Workshops;

Orthogonal SLAM: a Step toward Lightweight Indoor Autonomous Navigation

关键词简介: 正交 slam,用于室内环境,只提取平行和垂直的直线,用 EKF,Relative map approach; 可以实时性,轻量级; 来源,2006, Proceedings of the 2006 IEEE/RSJ International Conference on Intelligent Robots and Systems;

Lidar Mapping Optimization Based on Lightweight Semantic Segmentation

关键词简介:激光雷达 slam,语义;改进点,使用了轻量级的语义分割网络;在 LOAM 上修改;来源,2019 IEEE Transactions on Intelligent Vehicles;

ORB-SLAM2S: A Fast ORB-SLAM2 System with Sparse Optical Flow Tracking

关键词简介: 轻量级 slam 方案; 前端, 对非关键帧使用稀疏光流法, 以提高速度; 对关键帧, 使用特征点方法, 保证精度; 来源, 2021 13th International Conference on Advanced Computational Intelligence (ICACI);

SuperPointVO: A Lightweight Visual Odometry based on CNN Feature Extraction

关键词简介:轻量级双目 slam;使用神经网络 SuperPoint,提取特征;使用 NMS,网格采样方法增强描述子表达能力;不使用人工设计的特征;来源,2020 5th International Conference on Automation, Control and Robotics Engineering (CACRE);

Affordable SLAM through the co-design of hardware and methodology

关键词简介:轻量级 slam 方案,包括硬件和软件上的设计;硬件,激光雷达;软件,FastSLAM2.0 上修改,自适应方式寻找最优参数;来源,2010 IEEE International Conference on Robotics and Automation:

LeGO-LOAM: Lightweight and Ground-Optimized Lidar Odometry and Mapping on Variable Terrain

关键词简介:轻量级 slam 方案;使用了地面平面信息;提取平面、边缘特征;来源,2018 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS);

【2】.整理 slam 笔记

整理的 slam 有关笔记,

https://github.com/atao153940/notebook/tree/main/note%20of%20slam

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