Linghao Yang

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Education

Northeastern University (NEU)

Control Science and Engineering

Main Areas: Multi-sensor fusion SLAM and Scene semantic modelling

Northeastern University (NEU)

Automation GPA: 4.0103/5 Sep. 2016 - June. 2020

Sep. 2021 – June. 2024

Shenyang, China

Shenyang, China

Ranking: 17/256

Publications

- [1] Yang L, Zhang Y, Tian R, Liang S, Shen Y, Coleman S, Kerr D. Fast, Robust, Accurate, Multi-Body Motion Aware SLAM. IEEE Transactions on Intelligent Transportation Systems (T-ITS), 2023. [PDF] [Poster]
- [2] Yang L, Wu Y, Deng Y, Tian R, Hu X, Ma T. UniQuadric: A SLAM Backend for Unknown Rigid Object 3D Tracking and Light-Weight Modeling. IEEE Transactions on Intelligent Transportation Systems (T-ITS Under review), 2023. [PDF] [Poster]
- [3] Tian R, Zhang Y, Cao Z, Jin Z, Yang L, Coleman S, Kerr D. Object SLAM With Robust Quadric Initialization and Mapping for Dynamic Outdoors. IEEE Transactions on Intelligent Transportation Systems (T-ITS), 2023. [PDF]
- [4] Liang S, Zhang Y, Tian R, Zhu D, Yang L, Cao Z. SemLoc: Accurate and Robust Visual Localization with Semantic and Structural Constraints from Prior Maps. International Conference on Robotics and Automation (ICRA), 2022. [PDF]
- [5] Tian R, Zhang Y, Feng Y, Yang L, Cao Z, Coleman S, Kerr D. Accurate and robust object SLAM with 3D quadric landmark reconstruction in outdoors. IEEE Robotics and Automation Letters (RAL), 2021.
- [6] Shen Y, Zhang Y, Wu Y, Wang Z, Yang L, Coleman S, Kerr D. BSH-Det3D: Improving 3D Object Detection with BEV Shape Heatmap. International Conference on Intelligent Robots and Systems (IROS), 2023. [PDF]

Public Projects

- Off-road environment SLAM: Responsible for the development of a purely visual localization system based on a priori LiDAR point cloud maps.
- Park Autonomous Parking: Responsible for the development of multi-sensor fusion odometry and road-level semantic mapping system.

Work Experience

Xi'an Precision Machinery Research Institute Kunming Branch, China

July. 2023 - June. 2024

Algorithm Engineer

Unmanned Underwater Vehicles Control & Navigation

Mon. 2022 - May. 2022

LVIO & 3D Reconstruction

Algorithm Intern

Awards

DJI

Northeastern University President's Scholarship.

Seq 2020

Northeastern University Graduate Student First Class Academic Scholarship

Seq 2023 - Seq 2020

Northeastern University Outstanding Student Scholarship.

Seg 2016 - Seg 2020

Self evaluation

• I am a good learner, listener and collaborator. I hold the belief that the journey of a thousand miles begins with a single step.