JaeWon **Lee**

Robotics · Multi-Robot · SLAM

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"Passion is the genesis of genius."

Summary

This is JaeWon Lee, who wants to be a Multi-Robot System and Cooperative Autonomous Driving engineer. I am interested in Robotics, Navigation, SLAM, Path Planning, Multi-Robot. I think Multi-Robot, Robotics, and SLAM can help the development of the world a lot. I want to study a lot and approach the world.

Research Interests

Multi-Robot SLAM, Path Planning, Collision Avoidance, Map Fusion

SLAM Visual SLAM, Visual Odometry, Optimization

Education

KwangWoon University *Seoul, S.Korea*

B.S. in School of Robotics *Mar. 2020 - Feb. 2024(Expected)*

- Current GPA : 3.98/4.50, Current Major GPA : 4.16/4.50
- Club : BARAM Robotics (Robotics Academic Group) - [2022 Vice President], Mar.2020-Current

Work Experience

Robotics A.I. LAB. @KwangWoon Univ *Seoul, S.Korea*

Undergraduate LAB Intern (Advisor : Prof. Junghyun Oh) *Jan. 2022 - Present*

- Research on Visual SLAM and Multi-Robot SLAM
- Studying Visual SLAM and implementing Multi-Robot SLAM and Path Planning

Skills

Programming C++/C, Python

DevOps ROS1, Git

Framework Pytorch, Unity

Languages Korean, English

Extracurricular Activity

Technical Blog - leejaewon.github.io *Github blog*

Writer *Jul. 2021 - Present*

- Writing posts about paper review, development, study of Interests.
- Studying through writing and sharing.

Autonomous Driving Simulation with Reinforcement Learning *BARAM Robotics Group*

Personal toy project *Sep.2021 - Nov.2021*

- Autonomous-driving simulation through DQN Reinforcement algorithm in self-made simulator with unity.
- Reward management using DQN, CNN, and Laser Sensor.

Multi-Robot SLAM and Path Planning *BARAM Robotics Group*

Personal toy project *Apr. 2022 - Present*

- Implementation of ROS-based Multi-Robot SLAM.
- Studying Path-Planning and Map Merging Algorithm.