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 engineer and Cooperative Autonomous Driving engineer. I am interested in Robotics, SLAM, Multi-Robot System. I think Robotics can help the development of the world a lot. I want to study a lot and approach the world.

Research Interests

Multi-Robot Exploration, Navigation, 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 : 4.06/4.50, Current Major GPA : 4.28/4.50
- Club : BARAM Robotics (Robotics Academic Group) - [2022 Vice President], Mar.2020-Present

Work Experience

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

Undergraduate LAB Intern (Advisor : PROF. Junghyun Oh)   *Jan. 2022 - Jun. 2022*

- Research on Visual SLAM and Computer Vision
- Studying Visual SLAM and implementing Multi-Robot SLAM, Exploration and Path-Planning

ROBOMATION   *Songpa-gu, Seoul, S.Korea*

R&D Intern   *Jun. 2022 - Aug. 2022*

- Research and Development Part Intern
- Ready

Skills

Programming C++/C, Python, Matlab

DevOps ROS, Git

Framework Pytorch, Tensorflow, Keras, Unity

Languages Korean, English

Extracurricular Activity

Technical Blog - lee-jaewon.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*

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 Exploration   *BARAM Robotics*

Personal toy project   *Mar.2022 - Jun.2022*

- Implementation of ROS-based Multi-Robot SLAM.
- Implementing Frontier Based Exploration and Allocation Algorithm.

Educational Activities

AI Genius Academy Mentoring   *Organized by Micro School*

TEACHING ASSISTANT   *Nov.2021*

- Project Assistant with Arduino and Raspberry Pi
- Support students to experience AI and proceed with the project through a Teachable Machine.

Samsung Electronics App Development Mentoring   *Organized by Micro School*

TEACHING ASSISTANT   *Jan.2022*

- MIT App Inventor training and Project Assistant.

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