



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 Navigation, Collision Avoidance, SLAM, Pose Estimation

SLAM Visual SLAM, LiDAR SLAM

Education

KwangWoon University

Seoul, S.Korea

B.S. IN SCHOOL OF ROBOTICS

Mar. 2020 - Feb. 2024(Expected)

- Current GPA : 4.08/4.50, Current Major GPA : 4.26/4.50
- 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

- Studying Visual SLAM and Visual Odometry
- Studying Multi Robot System and implementing Multi-Robot Exploration

ROBOMATION

Seoul, S.Korea

R&D INTERN

Jun. 2022 - Aug. 2022

- I developed an automation system for soccer games using multi-robot.
- I carried out a development that considers the relationship between robots using Aruco Marker.

Honors & Awards

AWARDS

2022-1 **Dean's list**, for Academic Excellence

Kwangwoon Univ.

HONORS

2022-1 **Full Tuition Scholarship**, for Top seat last semester

Kwangwoon Univ.

Skills

Programming C++/C, Python, Matlab

DevOps ROS, Git

Framework Pytorch, Tensorflow, Keras, Unity

Extracurricular Activity

Technical Blog - lee-jaewon.github.io

Personal Tech Blog

WRITER

Jul. 2021 - Present

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

Technical Team Blog - ropiens.tistory.com

CO-WRITER

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

Team Tech Blog

Jul. 2022 - Present

2022 Open Source Contribution Academy

MENTEE

- Contributions to translating Pytorch Hub English documents into Korean at the Pytorch Korean User's Group.

Ministry of Science and ICT, NIPA

Jul. 2022 - Oct. 2022

Building a Smart Transportation System Using Multi-Robots

CAPSTONE DESIGN

Kwangwoon Univ.

Jan.2023 - Present

Multi Robot Collision Avoidance with Velocity Obstacle

PERSONAL TOY PROJECT

- Collision Avoidance with Velocity Obstacle using multi robot.

BARAM Robotics

Sep.2022 - Nov.2022

Autonomous Driving Simulation with Reinforcement Learning

PERSONAL TOY PROJECT

- Autonomous-driving simulation through DQN Reinforcement algorithm in self-made simulator with unity.
- Reward management using DQN, CNN, and Laser Sensor.
- The source code for the project is in [\[my GitHub repository\]](#).

BARAM Robotics

Sep.2021 - Nov.2021

Frontier Based Multi-Robot Exploration

PERSONAL TOY PROJECT

- Implementation of ROS-based Multi-Robot SLAM.
- Implementing Frontier Based Exploration and Allocation Algorithm.
- The source code for the project is in [\[my GitHub repository\]](#).

BARAM Robotics

Mar.2022 - Jun.2022

House Interior Classifier and Automatic Recommendation

DEEP-LEARNING PROJECT

- Implementation House Interior Classifier.
- This can be automatically recommended on the actual sales site with classified result.
- Using Inception-Resnet-V2 in Keras
- The source code for the project is in [\[my GitHub repository\]](#).

2022 Deep Learning Lecture

Mar.2022 - Jun.2022

Educational Activities

AI Genius Academy Mentoring

TEACHING ASSISTANT

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

Organized by Micro School, TresC3

Nov.2021

Samsung Electronics App Development Mentoring

TEACHING ASSISTANT

- MIT App Inventor training and Project Assistant.

Organized by Micro School, TresC3

Jan.2022

2022 FUTURE EDUFESTA : LINK

TEACHING ASSISTANT

- Teaching Assistant of software festival with robots.

Association of Teachers For
Computing

Oct.2022