JUNWOON LEE

leejunwoon@robot.t.u-tokyo.ac.jp, this CV is temporary version

REASEARCH INTEREST

SLAM, mapping, Computer vision, Sensor fusion, Path planning

EDUCATION

University of Tokyo *April, 2023 - March, 2025 (expected)*
M.S. Candidate in Human & Engineered Environmental Studies
Advisor: Prof. Atsushi Yamashita

Osaka University *April, 2017 - March, 2023*
B.E. in Mechanical Engineering
Thesis: LiDAR-visual SLAM (Simultaneous Localization And Mapping) for Online Mapping of Unpaved Road Surface
Advisor: Prof. Masamitsu Kurisu, Prof. Masato Ishikawa

REASEARCH EXPERIENCE

Graduate Reasearch, University of Tokyo *2023 April - 2025 March (expected)*
Real World Robot Informatics Lab.
In developing a novel SLAM system.

Undergraduate Reasearch, Osaka University *2022 April - 2023 March*
Komatsu MIRAI Construction Equipment Cooperative Research Center
Developed a unpaved road surface mapping system using a novel LiDAR-visual SLAM.
Resulted in an thesis, a publication in JFR (in review) and a patent in Japan (pending).

PUBLICATIONS & WORKING PAPERS

Journal

[1] **J.Lee**, M.Kurisu, K.Kuriyama. "Three-dimensionalized feature based LiDAR-visual SLAM for online mapping of unpaved road surface," *Journal of Field Robotics*. (in preparing)

Patent

[1] waiting for pending

SKILLS

Reasearch Skills
Program Languages : C++, C, Python, MATLAB
Libraries : GTSAM, Ceres Solver, OpenCV, PyTorch, Keras, Open3D, PCL
Frameworks : ROS, Github, LaTeX
Sensors : LiDAR, Camera, IMU, RTK-GNSS

Languages
Korean(native), Japanese(near-native), English(proficient)

AWARDS AND SCHOLARSHIPS

Rotary Yoneyama Memorial Foundation Scholarship *April, 2023 - March, 2025*
A stipend of JPY 140,000(about USD 1,200) per month.

Korea-Japan Joint Government Scholarship Program *April, 2017 - March, 2023*
A stipend of JPY 120,000(about USD 1,000) per month and tuition waiver for 4 years.

EXPERIENCE

The 23rd Security Brigade, Republic of Korea Army *April, 2020 - October, 2021*
Sergeant, Coastal frontline guard (Military duty)

REFERENCES