Daeho Kim

➡ Integrated MS-PhD student, Kyung Hee University, Korea Republic of.

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■ AIRLAB

Research Interest

My primary research interest lies in Embodied AI. I have been focusing on foundational research to develop autonomous robots and aspire to conduct meaningful research towards a world where humans and robots coexist harmoniously.

Education

Kyung Hee University

M.S. - Ph.D in Software Convergence

Gyeongi-do Korea Sep. 2023 - Present

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Kyung Hee University, Republic of Korea

B.S. in Software Convergence

Gyeongi-do Korea Mar. 2018 - Aug. 2023

- Majored in Robot & Vision Track
- Leave on absence due to military service (Jan. 2019 Aug. 2020) Assistant Instructor, Ranger Training Unit, Republic of Korea Army Infantry School

Publications

International papers

- [1] Camera-LiDAR Extrinsic Calibration using Constrained Optimization with Circle Placement IEEE Robotics and Automation Letters (RA-L) Vol. 10, Issue:2, pp. 883-890, 2025. (Presentation at ICRA 2025 in Atlanta)
 - Daeho Kim, Seunghui Shin and Hyoseok Hwang*
- [2] PAIR360: A Paired Dataset of High-Resolution 360° Panoramic Images and LiDAR Scans IEEE Robotics and Automation Letters (RA-L) Vol. 9, Issue:11, pp. 9550-9557, 2024. (Presentation at ICRA 2025 in Atlanta) Geunu Kim, Daeho Kim, Jaeyun Jang, and Hyoseok Hwang*
- [3] Moving End-Effectors by Deep Reinforcement Learning for Better Hand-Eye Calibration Performance

under review, 2025

Seunghui Shin, Daeho Kim, and Hyoseok Hwang*

Domestic papers

[1] Performance Validation of Target-based Camera-LiDAR Extrinsic Calibration on Simulation Summer Annual Conference of KIBME (special session), 2024 Daeho Kim, and Hyoseok Hwang*

Projects

Pick and Place system with 6-DOF Pose Estimation using DOPE

• Pick and Place / 6-DOF Pose estimateion / Domain Generalization

Camera-LiDAR Extrinsic Calibration using an Ordinary Box

• Extrinsic Calibration / Sequential-RANSAC

Stereo RGB camera 3D reconstruction

• Stereo Calibration / 3D Reconstruction

Turtlebot Manipulation with Optical Flow in Gazebo Simulation

• Optical Flow / Teleoperation

Academic Experience

Teaching Assistant | Kyung Hee University

• 3D Data Processing (SWCON36600)

• Robot Programming (SWCON33100)

Silicon Valley Software Program | San Jose State University

• Silicon valley software innovation & Technology contest

Gyeongi-do Korea

Spring Sem. 2024.

Jan. 2021 - Feb. 2021

Fall Sem. 2023.

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California USA

💠 Skills

• Sensors - LiDAR, 360° camera, Fisheye camera, RGB-D camera, GPS, IMU

- Programming Python, C/C++
- Simulator Gazebo, IsaacSim
- Frameworks ROS, Open3D, OpenCV, PCL, PyTorch

- Korean Native
- **English Business Competence**