

Daeho Kim

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

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homepage

Research Interest

I am interested in Embodied AI, focusing on solving the problems that occur when AI operates in the physical world. I want to create a world where robots and humans live harmoniously.

Education

Kyung Hee University
M.S. - Ph.D in Software Convergence

Gyeonggi-do Korea
Sep. 2023 - Present

Kyung Hee University, Republic of Korea
B.S. in Software Convergence

Gyeonggi-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] Squeezing the Last Drop of Accuracy: Hand-Eye Calibration via Deep Reinforcement Learning-Guided Pose Tuning
IEEE Robotics and Automation Letters (RA-L) 2025.
Seunghui Shin, **Daeho Kim**, and Hyoseok Hwang*
- [2] GAIA: Generating Task Instruction Aware Simulation Grounded in Real Contexts using Vision-Language Models
IEEE Robotics and Automation Letters (RA-L) 2025.
Dogyu Ko†, Chanyoung Yeot†, **Daeho Kim**, Jaeho Kim and Hyoseok Hwang*
- [3] 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*
- [4] 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*

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

Developing OHT position-aware sensor technology

CanTops 

- Camera-Marker Pose Estimation / Localization

2024 - 2025

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



- Pick and Place / 6-DOF Pose estimation / Domain Generalization

2023

Academic Experience

Teaching Assistant | Kyung Hee University

Gyeonggi-do Korea

- 3D Data Processing (SWCON36600)
- Robot Programming (SWCON33100)

Spring Sem. 2024.
Fall Sem. 2023.

Silicon Valley Software Program | San Jose State University

California USA

- Silicon valley software innovation & Technology contest

Jan. 2021 - Feb. 2021

Skills

- Sensors - LiDAR, 360° camera, Fisheye camera, RGB-D camera, GPS, IMU
- Simulator - Gazebo, IsaacSim
- Frameworks - ROS, Open3D, OpenCV, PCL, PyTorch

Languages

- Korean - Native
- English - Business Competence
- Japanese - Conversational