Jeongho Ahn

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Education

Kyushu University, Ph.D. in Graduate School of Information Science and Electrical Engineering – Fukuoka, Japan — Oct 2021-Mar 2025

- Advisor: Prof. Ryo Kuzazume
- Thesis: 3D LiDAR-based Gait Analysis for Person Identification in Long-range Measurement Environments

Kyushu University, M.Eng. in Graduate School of Information Science and Electrical Engineering – Fukuoka, Japan — Apr 2019-Mar 2021

- Advisor: Prof. Ryo Kuzazume

Gachon University, B.Eng. in Department of Electronic Engineering – Seongnam, South Korea — Mar 2012-Feb 2019

- Advisor: Prof. Hyung-seok Han

Experience

Postdoctoral Researcher, Kyushu University – Fukuoka, Japan — Apr 2025-–Present

Research Intern, NASA Jet Propulsion Laboratory (JPL) / California Institute of Technology (Caltech) – Pasadena, United States — Feb–Apr 2024

Software Engineer, Living Robot Inc. – Fukuoka, Japan — Oct 2020–Jan 2024

Publications – Journal Articles

Koki Yoshino, Kazuto Nakashima, Jeongho Ahn, Yumi Iwashita, and Ryo Kurazume. "RGB-based Gait Recognition with Disentangled Gait Feature Swapping". *IEEE Access*, Vol.12, pp. 115515–115531, 2024

Jeongho Ahn, Kazuto Nakashima, Koki Yoshino, Yumi Iwashita, and Ryo Kurazume. "Learning Viewpoint-Invariant Features for LiDAR-Based Gait Recognition". *IEEE Access*, Vol. 11, pp. 129749–129762, 2023

Hiroyuki Yamada, Jeongho Ahn, Oscar Martinez Mozons, Yumi Iwashita, and Ryo Kurazume. "Gait-based Person Identification using 3D LiDAR and Long Short-term Memory Deep Networks". *Advanced Robotics*, Vol. 34, No. 18, pp. 1201–1211, 2020

Publications – Conference Proceedings

Jeongho Ahn, Kazuto Nakashima, Koki Yoshino, Yumi Iwashita, and Ryo Kurazume. "Gait Sequence Upsampling using Diffusion Models for Single LiDAR Sensors". *In Proceedings of the IEEE/SICE International Symposium on System Integration (SII)*, pp. 658–664, 2025.1.21–24, 2025

Koki Yoshino, Kazuto Nakashima, Jeongho Ahn, Yumi Iwashita, and Ryo Kurazume. "S2Gait: RGB-based Gait Recognition with Style Feature Sampling Data Augmentation". *In Proceedings of the IEEE/SICE International Symposium on System Integration (SII)*, pp. 375–380, 2025.1.21–24, 2025

Jeongho Ahn, Kazuto Nakashima, Koki Yoshino, Yumi Iwashita, and Ryo Kurazume. "2V-Gait: Gait Recognition using 3D LiDAR Robust to Changes in Walking Direction and Measurement Distance". *In Proceedings of the IEEE/SICE International Symposium on System Integration (SII)*, pp. 602–607, 2022.1.9–12, 2022

Koki Yoshino, Kazuto Nakashima, Jeongho Ahn, Yumi Iwashita, and Ryo Kurazume. "Gait Recognition using Identity-Aware Adversarial Data Augmentation". *In Proceedings of the IEEE/SICE International Symposium on System Integration (SII)*, pp. 596–601, 2022.1.9–12, 2022

Publications – Domestic Conference in Japan

Meeting on Image Recognition and Understanding (MIRU) 2022, 2023, 2024

The Robotics Society of Japan (RSJ) 2021, 2022

Research Grant

Support for Pioneering Research Initiated by the Next Generation (SPRING), Japan Science and Technology Agency (JST) Oct 2021-Sep 2024

Award

Outstanding Presentation Award, 3MT (Three Minute Thesis) Competition, Kyushu University Mar 2025

Reviewer

Journal of NeuroEngineering and Rehabilitation 2025

Additional Information

Completed Mandatory Military Service as a Squad Leader, Military Police of the Republic of Korea Army Oct 2014-Jul 2016

Served as the Student Representative at the Graduation Ceremony, Japan Language Program, Fukuoka University Oct 2018-Sep 2019

Skills

Languages: Korean, English, Japanese

Programming Languages: Python, C, C++, Java, VHDL

Machine Learning Frameworks: PyTorch, Tensorflow, Scikit-learn

Tools & DevOps: Linux, Git, Docker, OpenCV, Open3D, ROS (Robot Operating System), PCL (Point Cloud Library), Maya

Embedded Platforms: Raspberry Pi, Arduino, Intel NUC

Sensors: LiDAR, RGB-D cameras, ToF cameras, Odor Sensors