Hiroshi Tanaka

Tokyo, Japan

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Education

University of Tokyo

PhD in Computer Science (Robotics and AI)

Apr 2018 – Mar 2022 | Tokyo, Japan

GPA: 3.9/4.0

Research Focus: Reinforcement Learning for Robotic Manipulation, Computer Vision for Object Recognition

Activities: Robotics Research Lab, Computer Vision Study Group, AI Ethics Committee

Relevant Coursework: Advanced Machine Learning, Robot Kinematics and Dynamics, Computer Vision, Sensor Fusion, Control Theory, Path Planning Algorithms, Deep Reinforcement Learning

Kyoto University

Master of Engineering in Robotics

Apr 2016 – Mar 2018 | Kyoto, Japan

GPA: 3.8/4.0

Work Experience

Robotics Engineer | Sony AI | Apr 2022 - Present | Tokyo, Japan

- Developed reinforcement learning algorithms for robotic manipulation tasks, achieving 85% success rate in complex assembly operations.
- Implemented computer vision systems for object detection and pose estimation with sub-millimeter accuracy.
- Designed and built end-to-end robotic systems integrating perception, planning, and control components.

Research Intern | Toyota Research Institute | Jul 2021 - Mar 2022 | Tokyo, Japan

- Researched imitation learning techniques for autonomous vehicle navigation.
- Developed simulation environments for testing and validating autonomous driving algorithms.
- Published research findings in top-tier robotics conferences (ICRA, IROS).

Skills

Robotics: Robot Operating System (ROS), Motion Planning, Path Planning, Kinematics, Control Systems, Robotic Manipulation

AI/ML: Deep Learning, Reinforcement Learning, Computer Vision, Sensor Fusion, SLAM

Programming: Python, C++, MATLAB, Julia

Frameworks: PyTorch, TensorFlow, OpenCV, PCL, MoveIt

Simulation: Gazebo, NVIDIA Isaac, PyBullet, MuJoCo

Other: 3D Perception, Embedded Systems, Hardware Integration, Research Methods, Technical Writing

Certificates

NVIDIA: Deep Learning for Robotics

ROS Industrial: Advanced Manipulation

edX: MIT Autonomous Mobile Robots

Awards

Best Paper Award - IEEE International Conference on Robotics and Automation (ICRA) 2023

Japan Society for the Promotion of Science (JSPS) Research Fellowship

1st Place - International Autonomous Robot Competition 2021