DoYoung Kim

Graduate Student of Mechanical Design Engineering
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RESEARCH INTEREST

Deep Reinforcement Learning, Visual Navigation

EDUCATION

Mar. 2016~Aug. 2022

- Bachelor of JeonBuk National University(JBNU), South Korea
- GPA : 4.09/4.5

RESEARCH EXPERIENCES

Nov. 2022 ~ Present

▪ Intelligent Robotics Research Center, Korea Electronics Technology Institute, KETI

✓ Participating in projects related to autonomous mobile manipulators and industrial mobile robots

✓ Responsible for the comprehensive navigation process, including Simultaneous Localization and Mapping(SLAM) and management of middleware

Mar. 2021 ~ Aug. 2022

▪ Undergraduate Researcher, JBNU

✓ Supervised by Prof. Deok-Jin Lee

✓ Participated in projects related to autonomous driving motion control using Imitation learning

PUBLICATIONS

▪ The 23rd International Conference on Control, Automation and Systems (Oct 2023)

✓ "Development and Validation of Reconfigurable Autonomous Mobile Manipulator for Flexible Manufacturing Process," Accepted Regular Paper, The 23rd International Conference on Control, Automation and Systems, Oct. 2023

HONARS & AWARDS

▪ Minister's Award, Drone Navigation Challenge, Korea Ministry of Science and ICT, 2021

✓ Performed autonomous drone navigation tasks and won Ministry of Science and ICT's award

▪ Superior Academic Performance Scholarship (Mar 2016)

✓ Admitted as the top student of Mechanical Design Engineering department (full tuition)

▪ Presidential Award for Outstanding Graduates (Aug 2022)

✓ President's Award for the top graduate student, JBNU

SKILLS

▪ Robot Programming

✓ Programming language : C++ Python
✓ Frameworks : ROS, ROS2, Behavior Tree
✓ Tools: Isaac Sim, Gazebo, Docker, Linux, Git

EXTRACURRICULAR PROGRAMS

▪ Member, Robotics Club, AUTURBO, Jan. 2024 ~ Present

✓ Developing digital twin environment using Nvidia Isaac Lab for Reinforcement Learning(RL) and deployment of quadruped robots

✓ Contributed to and maintained open-source projects, StrideSim, a quadruped robot simulation

▪ Running personal websites

✓ Notion
✓ Tech Blog

TEACHING EXPERIENCE

▪ Participated as an undergraduate mentor in JBNU Mar. 2022 ~ July. 2022

✓ Selected as an Excellent Mentor of Mentoring Program
✓ Presented "Artificial Intelligence" seminar for undergraduate student