Seongjoon Moon

PhD Student
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EDUCATION

Mar. 2017 ~ Feb. 2023	**Korea University** Department of Mechanical Engineering	Seoul, Korea
	Advisor: Woojin Chung	
	Mechanical Engineering GPA: 3.52 / 4.5	
Mar. 2023 ~ Present	**Korea University** Department of Mechanical Engineering	Seoul, Korea
	Advisor: Woojin Chung	
	Ph.D. Student GPA: 4.32 / 4.5	

RESEARCH INTERESTS

- Reinforcement learning
- Imitation learning
- Mobile robot navigation
- Trajectory planning
- Multi-agent planning

CONFERENCES

1. Seongjoon Moon, Boogeon Kim, Jinwon Lee, Geonhyeok Park, Ikhyeon Cho, Woojin Chung, "A Multi-Robot Navigation Framework in Large-Scale Indoor Workspace", The 19th Korea Robotics Society Annual Conference(KRoC 2024), Pyeongchang, Korea (Feb. 2024) - Oral

RESEARCH EXPERIENCES

- Research Student at School of Mechanical Engineering, Korea University, Korea (Feb. 2023 ~ Present) / Reinforcement Learning for Mobile Robot Navigation

- Research Student at School of Mechanical Engineering, Korea University, Korea (Jun. 2022 ~ Dec. 2024) / Multi-agent Path Finding and Task Allocation

SKILLS AND TECHNIQUES

- Languages: Python, C++
- Core: Reinforcement Learning (PyTorch), ROS/ROS2
- Expertise: Trajectory Generation, Multi-Agent Path Finding (MAPF), Multi-Robot Task Allocation (MRTA)
- Tools: Gazebo, Docker, Git, Linux