Yunsoo Seo

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My research interests lie in **humanoid locomotion, sampling-based Model Predictive Control (MPC), and multi-contact dynamics**. These are some that I am diving into these days.

1. How can sampling-based MPC methods be scaled to handle high-dimensional humanoid systems in real-time?
2. How can we incorporate uncertainty (modeling errors, sensor noise etc.) into MPC to improve robustness in complex, dynamic environments?
3. How can we model and predict the interactions between a humanoid robot and its environment during multi-contact scenarios?(and how are the robot gonna react? ex. GRF)

Education

Mar 2024 - Present	**Korea University**	Master's degree Major in Control, Robotics and Systems (GPA: 4.5/4.5)
Mar 2020 - Feb2024	**Dongguk University**	Bachelor's degree Major in Mechanical, Robotics, and Energy Engineering (GPA: 3.69/4.5)

Internships

Mar 2024 - Present	Graduate student researcher	Advanced Robot Control Lab(ARC), Korea Institute of Science and Technology(KIST)
Mar 2024- Present	Graduate student researcher	Control and Mechatronics Lab(CML), Korea University
2022 - 2023	Undergraduate student researcher	Advanced Robot Control Lab(ARC), Korea Institute of Science and Technology(KIST)

Languages

Korean	Native
English	Highly proficient

Skills

C++	Experienced