

DAEGYU LIM

Ph.D Candidate
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EDUCATION

- **Ph.D Candidate in Transdisciplinary Studies** Mar. 2017 - Present
Seoul National University, Seoul, Republic of Korea
- **BA in Mechanical and Aerospace Engineering** Mar. 2012 - Feb. 2017
Seoul National University, Seoul, Republic of Korea

PUBLICATIONS

- Myeong-Ju Kim, **Daegyul Lim**, Gyeongjae Park, and Jaehung Park. “Foot Stepping Algorithm of Humanoids with Double Support Time Adjustment based on Capture Point Control.” *2023 IEEE International Conference on Robotics and Automation (ICRA)*. IEEE, 2023.
- Myeong-Ju Kim, **Daegyul Lim**, Gyeongjae Park, and Jaehung Park. “Humanoid Balance Control using Centroidal Angular Momentum based on Hierarchical Quadratic Programming.” *2022 IEEE/RSJ international conference on intelligent robots and systems (IROS)*. IEEE, 2022.
- **Daegyul Lim**, Donghyeon Kim, Jaehung Park. “Online Telemanipulation Framework on Humanoid for both Manipulation and Imitation” *2022 19th International Conference on Ubiquitous Robots (UR)*. IEEE, 2022. (*Best Application Paper Award)
- Donghyeon Kim*, **Daegyul Lim***, and Jaehung Park. “Transferable Collision Detection Learning for Collaborative Manipulator Using Versatile Modularized Neural Network.” *IEEE Transactions on Robotics* (2021). (*equal contribution)
- **Daegyul Lim***, Donghyeon Kim*, Jaehung Park. “Momentum Observer-Based Collision Detection Using LSTM for Model Uncertainty Learning.” *2021 IEEE International Conference on Robotics and Automation (ICRA)*. IEEE, 2021. (*equal contribution)
- Mingon Kim, **Daegyul Lim**, and Jaehung Park. “Online walking pattern generation for humanoid robot with compliant motion control.” *2019 International Conference on Robotics and Automation (ICRA)*. IEEE, 2019.

PATENTS

- Jaehung Park, **Daegyul Lim**, Donghyeon Kim, “Remote control method of motion tracking robot”, Korea Patent Application 1020210191286, filed December 2021. Patent Pending.

AWARDS

- **Best Application Paper Award** in the 19th International Conference on Ubiquitous Robots (UR 2022).

SCHOLARSHIP

- **Samsung Electronics Ph.D Student Sponsorship Program** at Device Solutions (2022. 09).
- **National Science & Technology Scholarship** (2013-2014).

RESEARCH SKILLS

Computer Languages

Simulator

Library

C/C++, Python, Matlab

MuJoCo, Isaac Gym, CoppeliaSim

Pytorch, Tensorflow, RBDL, qpOASES, Pinocchio