

MINEUI HONG

Ph.D. Student @ Robot Learning Laboratory (RLLAB)
Department of Electrical and Computer Engineering, Seoul National University
133 – 610, 1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea

CONTACT INFORMATION

Name: Mineui Hong
E-mail: mineui.hong@rllab.snu.ac.kr
Mobile: +82-10-9638-0408

RESEARCH INTERESTS

Reinforcement Learning, Learning-based Planning, Representation Learning, Robotics

EDUCATION

Ph.D. in Electrical and Computer Engineering - Seoul National University, Seoul, Republic of Korea - Advisor: Prof. Songhwai Oh	Mar. 2019 - Present
Overseas Study Program - Linköping University, Linköping, Sweden	Fall 2016
B.S. in Electrical and Computer Engineering - Seoul National University, Seoul, Republic of Korea	Mar. 2014 - Feb. 2019
Seoul Science High School for Gifted Students - Seoul, Republic of Korea	Mar. 2011 - Feb. 2014

PUBLICATIONS

International Journal

- **Mineui Hong**, Kyungjae Lee, Minjae Kang, Wonsuhk Jung, and Songhwai Oh, “**Dynamics-Aware Metric Embedding: Metric Learning in a Latent Space for Visual Planning**,” *IEEE Robotics and Automation Letters (RA-L)*, Apr. 2022.
- Jae In Kim*, **Mineui Hong***, Kyungjae Lee, DongWook Kim, Yong-Lae Park, and Songhwai Oh, “**Learning to Walk a Tripod Mobile Robot Using Nonlinear Soft Vibration Actuators with Entropy Adaptive Reinforcement Learning**,” *IEEE Robotics and Automation Letters (RA-L)*, Apr. 2020.

International Conference

- **Mineui Hong**, Minjae Kang, and Songhwai Oh, “**Diffused Task-Agnostic Milestone Planner**,” in *Proc. of Neural Information Processing Systems (NeurIPS)*, Dec. 2023.
- **Mineui Hong**, Kyungjae Lee, Minjae Kang, Wonsuhk Jung, and Songhwai Oh, “**Dynamics-Aware Metric Embedding: Metric Learning in a Latent Space for Visual Planning**,” in *Proc. of the IEEE International Conference on Robotics and Automation (ICRA)*, May. 2022. (RA-L option)
- **Mineui Hong** and Songhwai Oh, “**Learning Latent Dynamics from Multi-View Observations for Image-Based Control**,” in *Proc. of the International Conference on Control, Automation and Systems (ICCAS)*, Oct. 2021.
- Kyungjae Lee, Sungyub Kim, Sungbin Lim, Sungjoon Choi, **Mineui Hong**, Jae In Kim, Yong-Lae Park, and Songhwai Oh, “**Generalized Tsallis Entropy Reinforcement Learning and Its Application to Soft Mobile Robots**,” in *Proc. of Robotics: Science and Systems (RSS)*, Jul. 2020.

- Jae In Kim*, **Mineui Hong***, Kyungjae Lee, DongWook Kim, Yong-Lae Park, and Songhwa Oh, “**Learning to Walk a Tripod Mobile Robot Using Nonlinear Soft Vibration Actuators with Entropy Adaptive Reinforcement Learning,**” in *Proc. of the IEEE International Conference on Robotics and Automation (ICRA)*, May, 2020.

AWARDS AND HONOR

- Brain Korea 21 Plus Scholarship 2020 - Present
- Merit-Based Scholarship 2014 - 2017

TEACHING EXPERIENCE

Teaching Assistant

- Graduation Project Spring 2022
- Introduction to Intelligent Systems Fall 2019

Instructor

- Python Programming Tutoring in College of Natural Sciences, Seoul National University Fall 2018

RESEARCH EXPERIENCE

- Goal-Oriented Artificial Intelligence Agents. 2022 - Present
- Funded by Ministry of Science and ICT (MSIT)
- Robot Learning: Efficient, Safe, and Socially-Acceptable Machine Learning. 2019 - Present
- Funded by Ministry of Science and ICT (MSIT)
- Robot Learning from Demonstrations with Mixed Qualities. 2019 - 2021
- Funded by Ministry of Science and ICT (MSIT)

PROGRAMMING SKILLS

Language: Python, C/C++, Matlab

Software: Pytorch, TensorFlow, ROS, MuJoCo