Dohyeok Lee

■: dohyeoklee@snu.ac.kr | ♦ : dohyeoklee.github.io | • github.com/dohyeoklee

| 64 | 11001 | tion |
|-------|-------|------|
| P.() | 110'4 | |
| υч | ucu | |

| Education | |
|--|--|
| Seoul National University(SNU), Ph.D. in ECE | Sep 2024 – present |
| Seoul National University(SNU), M.S. in ECE | Mar 2022 – Feb 2024 |
| Korea Advanced Institute of Science and Technology(KAIST), B.S. in EE | Mar 2016 – Feb 2020 |
| Publications & Conferences C=Conferen | nce, D=Demo, S=In Submission, W=Workshop |
| [W2] Dynamics-Aligned Flow Matching Policy for Robot Learning | CVPR EAI Workshop 2025 |
| Dohyeok Lee, Jung Min Lee, Munkyung Kim ,Seokhun Ju, Seungyub Han, Jin W | oo Koo, Jungwoo Lee |
| [W1] View-Imagination: Enhancing Visuomotor Control with Adaptive View Synthesis | CVPR EAI Workshop 2025 |
| Dohyeok Lee, Munkyung Kim, Jung Min Lee, Seungyub Han, Jungwoo Lee | |
| [C2] SPQR: Controlling Q-ensemble Independence with Spiked Random Mo for Reinforcement Learning | odel NeurIPS 2023 |
| Dohyeok Lee, Seungyub Han, Taehyun Cho, Jungwoo Lee | |
| [D1] ARTificial Expressions: Human-Robot Interactive Drawing (Best Demo) | CVPR Demo 2023 |
| Yejin Kim, <i>Dohyeok Lee</i> | |
| [C1] Control of Furuta Pendulum with Reinforcement Learning | ICCAS 2019 |
| Dohyeok Lee, Usama Mohammad, Dong Eui Chang | |
| Work Experience | |
| Robotics Engineer, D.Hive (start-up) | Oct 2020 – April 2021 |
| Developing autonomous delivery robot | |
| Robotics Engineer Intern, Crazing Lab. (start-up) | June 2019 – Aug 2019 |
| Developing autonomous filming mobile robot | |
| Open Source Projects | |
| Nonlinear controller (★ 20) | n |
| • Implement nonlinear control (robust, adaptive, sliding mode) algorithms on two | wo-arm manipulator simulator |
| EKF (★ 14) | O |
| • Implement EKF(Extended Kalman Filter) for sensor fusion of GPS and IMU da | ta with Kitti dataset |
| IMPALA | 0 |
| • Implement IMPALA(Scalable Distributed Deep-RL with Importance Weighted Actor-Learner A system with ray, redis, UDP | Architectures) in distributed machine |
| RRT | 0 |
| • Implement RRT(Rapid Random Tree) algorithms | |
| Robotics Projects | |
| Moblie Humanoid | 2024 |
| Developing wheel-based humanoid for moving and picking object | |
| Robot-AR system | 2021 |
| | |

• Developing AR system integrating robot Spot with Unity, ROS

| Vender | 2020 |
|---|------|
| • Creating A.I media artwork with A.I based emotion recognition and autonomous vending machine system | |
| Autonomous Mobile Robot | 2018 |
| • Developing autonomous mobile robot with YOLO, Tmap API, GPS and compass sensor, etc. | |
| Hand-shape Manipulator | 2017 |
| • Developing hand-shape manipulator and glove-shape interface for teleoperation | |
| Maker-based Mobile Robot | 2016 |
| Developing mobile robot for maker-based localization and mapping | |