Jinwon Kim, M.S.

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Research Interests

- Path and Motion Planning
- Autonomous Driving
- Reinforcement Learning

Education

2021 – 2023 **M.S., Robotics Program** in Korea Advanced Institute of Science and Technology. Advisor: Sung-Eui Yoon, GPA: 3.65 / 4.3

2015 – 2021 **B.S., Division of Robotics** in Kwangwoon University. GPA: 4.23 / 4.5

Employment History

Jun '19 – Dec '19 **Student researcher,** Center for Intelligent & Interactive Robotics, Korea Institute of Science and Technology

Research Publications

International Conference

1. Jinwon Kim, S. Y., Heechan Shin. (2022b). Collision-backpropagation based obstacle avoidance method for a legged robot expressed as a simplified dynamics model. In *International conference on control, automation, and systems (iccas2022)*, BEXCO, Busan, Korea.

Domestic Conference (Korea)

1. Jinwon Kim, S. Y., Heechan Shin. (2022a). Collision backpropagation-based obstacle avoidance method for a legged robot with simplified dynamics model. In *Korea robotics society annual conference (kroc2022)*, Pyeongchang, Korea.
2. Jinwon Kim, K. K. (2020). Robust multi object detection using siamese network. In *Korea robotics society annual conference (kroc2020)*, Pyeongchang, Korea.

Patents

1. Kim, K., & Kim, J. (2020). Robust multi-object detection apparatus and method using siamese network. KR-Application No. 10-2020-0026298.

Skills

Languages English: Intermediate (TOEIC: 810, OPIc: IH), Korean: Native

Coding C++, Python, LaTeX

Library ROS, Pytorch, CasADi, Ipopt

Miscellaneous Experience

Awards and Achievements

Dec 2020 **Dean's list**, Kwangwoon University, Korea.

Nov 2020 **3rd Prize**, Open SW mini hackathon, TIZEN sector, Korea.

Jun 2019 **Dean's list**, Kwangwoon University, Korea.

Dec 2018 **Dean's list**, Kwangwoon University, Korea.