Jungwon Park

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Research Interests

Multi-Agent Trajectory Planning, Distributed Robot System, Collision Avoidance, Deadlock resolution.

Education

2018.03-	**Seoul National University, Seoul, Republic of Korea** Ph. D. Candidate in Aerospace Engineering. Advisor: H. Jin Kim
2012.03 -2018.02	**Seoul National University, Seoul, Republic of Korea** B. S. in Electrical and Computer Engineering.
2010.03 -2012.02	**Hansung Science High School, Seoul, Republic of Korea** Early graduation

Honors

2022	Awarded **Top Prize** (president award) in Korea Aerospace Industries (KAI) Aerospace Paper Award.
2020	Awarded **Multi-Robot Systems Award Finalist** in IEEE International Conference on Robotics and Automation (ICRA 2020).

International Journals

- **Jungwon Park**, Yunwoo Lee, Inkyu Jang, H. Jin Kim, "DLSC: Distributed Multi-Agent Trajectory Planning in Maze-like Dynamic Environments using Linear Safe Corridor," IEEE **T-RO** (Accepted).
- **Jungwon Park**, Dabin Kim, Gyeong Chan Kim, Dahyun Oh, H. Jin Kim, "Online distributed trajectory planning for quadrotor swarm with feasibility guarantee using linear safe corridor," IEEE **RA-L** 2022.
- Boseong Felipe Jeon, Yunwoo Lee, Jeongjun Choi, **Jungwon Park**, H Jin Kim, "Autonomous aerial dual-target following among obstacles," IEEE **Access** 2021.
- **Jungwon Park**, H. Jin Kim, "Online trajectory planning for multiple quadrotors in dynamic environments using relative safe flight corridor," IEEE **RA-L** 2020.

Projects

2022-2023	The development of online path planning algorithm for multi-robots. Hyundai Motor Company	**Project Leader**
2019-2021	Development of A.I. based recognition, judgement and control solution for autonomous vehicle corresponding to atypical driving environment. Ministry of Science and ICT, Republic of Korea	**Project Leader**
2016-2022	Development of multi-robot integrated control & operation system for supporting compound disasters accident management. Ministry of Trade, Industry and Energy, Republic of Korea	Researcher
2021-2022	Development of autonomous assistive robots for wheelchairs. Ministry of Science and ICT, Republic of Korea	Researcher

Reference: Advisor H. Jin Kim, hjinkim@snu.ac.kr