Gilhwan Kang

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🏳 South Korea ⌨ https://github.com/hwan0806

Research Interests

SLAM	Lifelong SLAM, Map management, LiDAR-Inertial-Visual SLAM
Spatial AI	3D scene understanding, Embodied AI, Visual-Language Navigation

Education

Inha University *Sep. 2022 – Present*
M.S. in Electrical and Computer Engineering *Incheon, S.Korea*

- Advisor : Younggun Cho
- GPA: 4.39
- Thesis: Unified Mapping Framework for Multi-modal LiDARs in Complex and Dynamic Environments

Inha University *Mar. 2017 – Aug. 2022*
B.S. in Electrical Engineering *Incheon, S.Korea*

- Total GPA: 4.27 / 4.5, Major GPA: 4.43 / 4.5

Publication

Joint-ID: Transformer-based Joint Image Enhancement and Depth Estimation for Underwater Environments
IEEE Sensors Journal *2023*

- Geonmo Yang, **Gilhwan Kang**, Juhui Lee and Younggun Cho

Robust Imaging Sonar-based Place Recognition and Localization in Underwater Environments
IEEE International Conference on Robotics and Automation (ICRA) *2023*

- Hogyun Kim, **Gilhwan Kang**, Seokhwan Jeong, Seungjun Ma and Younggun Cho

Workshop and Poster

Unified Mapping Framework for Multi-modal LiDARs in Complex and Dynamic Environments
ICRA Workshop on Future of Construction *2024*

- **Gilhwan Kang**, Hogyun Kim, Byunghee Choi, Seokhwan Jeong, Young-Sik Shin and Younggun Cho

Detail-guided Image Enhancement for Underwater Robot Vision
IROS Late Breaking *2022*

- **Gilhwan Kang**, Geonmo Yang, Juhui Lee and Younggun Cho

Awards and Honors

Best Paper Award 3rd prize *2024*
Workshop on Future of Construction *ICRA*

Excellence Prize (Top 20 out of 489 teams) *2023*
Industry-Academic Project Challenge *Ministry of Trade, Industry and Energy*

Excellence Prize *2022*
Embedded Software Competition *Ministry of Trade, Industry and Energy*

Full scholarship *2022-24*
Scholarship for the highest academic results *Inha University*

Skills

Programming   C++, Python, Matlab