Seungjun Ma

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Research Interests

SLAM Visual SLAM, Visual Place Recogntion
Spatial AI Visual Localization, Implicit Representation

Education

Inha University *Mar. 2023 – Present*
M.S. in Electrical and Computer Engineering *Incheon, S.Korea*

- Advisor : Younggun Cho
- Thesis: TBA

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

Publication

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

A Study on Autonomous driving Serving robot for Complete service
Proceedings of the Korea Information Processing Society Conference *2021*

- Hojun Park, **SeungJun Ma**

Workshop and Poster

StaticNeRF: Neural Implicit Static Mapping and Localization in Dynamic Environments *2024*
ICRA Workshop on Neural Fields in Robotics, ***Spotlight***

Juhui Lee, **Seungjun Ma**, Geonmo Yang and Younggun Cho

Mobile manipulator and navigation technology for driving in multi -layered environments *2024*
Institute of Control, Robotics and Systems Conference

Jongmin Lee, Kyounghoon Han, Daeum Park, Minjeong Kim, **Seungjun Ma**, Seokhwan Jung and Younggun Cho

Implicit Neural Map with Various Illuminance Domain and Illuminance Detection during Robot Autonomy *2024*
Korea Robotics Society Annual Conference, Award Finalist

Juhui Lee, **Seungjun Ma** and Younggun Cho

Robust Visual Localization for Low-textured Indoor Environments
IROS Late Breaking *2022*

- **Seungjun Ma**, Seokhwan Jeong and Younggun Cho

Reserach on Visual Localization in environments with few distinctive features
Korea Robotics Society Annual Conference, Undergraduate Oustanding Paper *2022*

- **Seungjun Ma**, Seokhwan Jeong and Younggun Cho

Awards and Honors

Scholarship *2023-24*
Scholarship for recruitment condition *Hyundai Motors Group*

Undergraduate Oustanding Paper Award *2022*
Korea Robotics Society Annual Conference *KROS*

Minister's Award *2021*
ICT Hanium Mentoring Contest *Ministry of Science and ICT*

Projects

Deep Total Recall: Continual Learning for Human-Like Recall of Artificial Neural Networks *2024*
Development of Quadrupped Robot Navigation System *IITP*

TBA *2024*
TBA *LG Electronics*

Skills

Programming	Python, PyTorch, Matlab
DevOps	Git, Docker, ROS
Languages	Korean, English