Yesung Hwang

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yesung31.github.io

Education

Eindhoven University of Technology — Eindhoven, Netherlands
M.Sc. in Artificial Intelligence and Engineering Systems — 2024.09 – Present
- Current Grade: 9.23/10.0 (Dutch Grading System)

Yonsei University — Seoul, South Korea
B.Sc. in Electrical and Electronic Engineering, Minor in Physics — 2015.03 – 2023.08
- Thesis: *Accelerated mGRE Image Reconstruction for MWI via Deep Learning*
- Advisor: Prof. Dong-hyun Kim
- Final Grade: 98.1/100

Experience

KAIST (Visual AI Lab) | Daejeon, South Korea — 2021.12 – 2022.12
- Undergraduate internship, advised by Prof. Minhyuk Sung.
- **Hyperbolic Embedding Space for Language-driven Shape Manipulation**: Derived the projection of text to shape region in hyperbolic CLIP embedding space to reduce training time.
- **Differentiable Discrete Poisson Solver**: Devised fast differentiable Poisson equation solver, enabling deep learning integration.

Kakao Mobility | Seoul, South Korea — 2021.07 – 2021.08
- Developed real-time continuous-time SLAM using bounded surface features for large-scale indoor mapping.
- Implemented multi-LiDAR movement distortion correction using IMU and LiDAR–LiDAR calibration.

Stryx | Seoul, South Korea — 2020.01 – 2021.02
- Developed pointcloud registration algorithms for city-scale HD mapping.
- Designed GPS noise detection and reduction methods for precise localization.
- Improved SLAM feature extraction for indoor–outdoor map integration.
- Worked on LiDAR+IMU localization algorithms for tunnels.

Republic of Korea Army | South Korea — 2018.12 – 2019.11
- Mandatory Military Service (coast guard).

Awards

Yonsei Honors Program – Merit-based Full Scholarship, Yonsei University — 2015.03

Skills

Programming: `C++`, `Python`, `ROS`, `Linux`, `Git`, `LaTeX`
Languages: Korean (Native), English (C1), Dutch (A1)

Travel

Backpacking | Asia, Europe — 2023.02 – 2023.08
- Period of personal travel and exploration.