Junha Lee

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Cheongam-Ro 77, POSTECH, Pohang-Si, Republic of Korea (37673)

Education

POSTECH Pohang, Republic of Korea
Ph.D. in Computer Science and Engineering. *Sep. 2021 – Present*

- Supervised by Prof. Jaesik Park in the Computer Vision Lab.
- Research Interest: 3D Geometry and Perception, 3D reconstruction, and Implicit representation.

POSTECH Pohang, Republic of Korea
M.S. in Computer Science and Engineering. *Sep. 2019 – Aug. 2021*

- Master's thesis: Global Point Cloud Registration using High-dimensional ConvNets and Hough Voting (Advisor: Prof. Jaesik Park)

POSTECH Pohang, Republic of Korea
B.E. in Computer Science and Engineering. *March. 2012 – Aug. 2019*

Publication

International

[1] **Junha Lee**, Christopher Choy, Animashree Anandkumar, and Jaesik Park
Putting 3D Spatially Sparse Networks on a Diet
2112.01316 (arXiv), 2021

[2] **Junha Lee**, Seungwook Kim, Minsu Cho, and Jaesik Park
Deep Hough Voting for Robust Global Registration
International Conference on Computer Vision (**ICCV**), 2021

[3] Christopher Choy, **Junha Lee**, Rene Ranftl, Jaesik Park, and Vladlen Koltun
High-Dimensional Conovlutional Networks for Geometric Pattern Recognition
Conference on Computer Vision and Pattern Recognition (**CVPR**), 2020
(**Oral** Presentation, 5.7% acceptance rate)

Domestic

[1] **Junha Lee**, Seungwook Kim, Minsu Cho, and Jaesik Park
Robust Global Registration via Hierarchical Hough Voting
33rd Workshop on Image Processing and Image Understanding (IPIU), 2021
(**Gold Prize** at IPIU Best Paper Award)

Projects

Open3D | *Core Contributor* Aug 2020 – Present

- Implemented the highly optimized built-in implementations that support various neighbor search methods (Knn, Radius, and Hybrid) supporting both CPU and GPU, arbitrary data type (Float32, Float64), and index type (Int32, Int64) via a common interface.
- 6.4k Github stars

Professional Services

Reviewer, in CVPR (2022), ECCV(2022), ICCV (2021), BMVC (2021), IEEE RA-L/ICRA (2021)