

JUNHO LEE

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EDUCATION

Seoul National University 2020 - Current
Ph.D. Electrical and Computer Engineering
Advised by Prof. Young Min Kim
GPA: 3.90/4.30

Seoul National University 2017 - 2020
B.S. Electrical and Computer Engineering
GPA: 3.51/4.30

RESEARCH INTERESTS

My research goal is to build a robotic system that can robustly perceive and manipulate real-world objects. Specifically, I focus on manipulating transparent objects with a robot arm. Currently, I am working on grasping such objects via neural fields while obtaining input from an RGB-D camera.

PUBLICATIONS

MasKGrasp: Mask-based Grasping for Scenes with Multiple General Real-world Objects
Junho Lee, Junhwa Hur, Inwoo Hwang, Young Min Kim
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2022.

Gatsbi: Generative agent-centric spatio-temporal object interaction
Cheoulhui Min, Jinseok Bae, Junho Lee, Young Min Kim
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2021
(Oral).

PATENTS

10-2596914 2023

AWARDS & HONORS

- Tutor Award by SNU College of Engineering 2021

PROJECTS

- Bachelor thesis: Using demonstrations from VR integrated robot control systems to alleviate sparse reward setting for RL(2020).

TEACHING EXPERIENCES

- TA, Linear Algebra for Electrical Systems Fall 2021
Instructor: Young Min Kim

- TA, Linear Algebra for Electrical Systems Fall 2022
Instructor: Young Min Kim

IT SKILLS

- **Programming Languages:** Python, C++, MATLAB, LaTeX
- **Libraries:** PyTorch, Numpy, Nvidia IsaacSim, Blender
- **Platforms:** Linux, Mac OS, Windows
- **Hardware:** Panda Franka Emika, HTC Vive, Realsense
- **Server:** System administrator for server(48 GPUs)

LANGUAGES

- **Korean (native)**
- **English (native)**