

JUNHO LEE

(+82)10-2871-1839 ◊ twjhlee@snu.ac.kr

EDUCATION

Seoul National University *2020 - Current*
Ph.D. Electrical and Computer Engineering
Advised by Prof. Young Min Kim

Seoul National University *2017 - 2020*
B.S. Electrical and Computer Engineering

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

NFL: Normal Field Learning for 6-DoF Grasping of Transparent Objects
Junho Lee, Sangmin Kim, Yonghyeon Lee, Young Min Kim
IEEE Robotics and Automation Letters (RA-L), 2023.

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)