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

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)**