Junho Lee

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Introduction

I am a post-doc researcher at the 3D Vision Lab, part of the Department of Electrical and Computer Engineering at Seoul National University, where I work on reliable 3D perception and robotic manipulation of transparent and specular objects. My principle investigator is Young Min Kim.

Education

Seoul National University, Sep.2020 - Aug.2025 Ph.D. in Electrical and Computer Engineering
Seoul National University, Mar.2017 - Aug.2020 B.S. in Electrical and Computer Engineering

Career

Postdoc Researcher, Seoul National University Sep.2025 - current

Skills

Python, Pytorch, ROS, C++, Linux, Windows, Pybullet, Isaac Sim
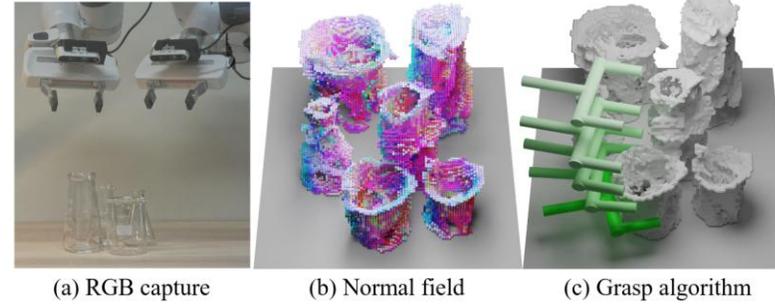Administrator of 64+ GPU server
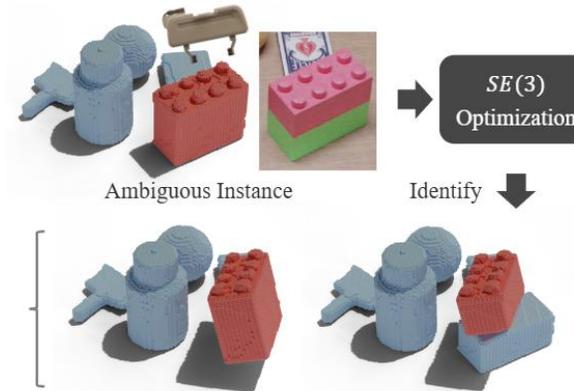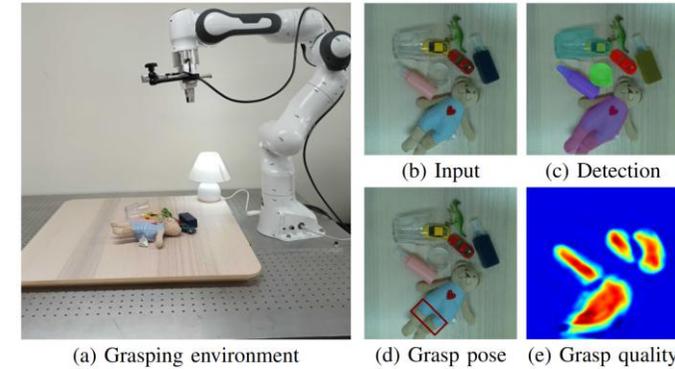
Hardware

Panda franka

Realsense cameras

HTC vive

Research

(a) RGB capture   (b) Normal field   (c) Grasp algorithm

Normal Field Learning
Explicit reconstruction and grasping
Transparent object manipulation

Ambiguous Instance   Identify

SE(3) Optimization

(a) Grasping environment

(b) Input   (c) Detection
(d) Grasp pose   (e) Grasp quality

Active Perception for Clutter
Interact to identify instance
Obtain instance-wise geometry

Mask-based Grasping
2D grasping for transparent objects
Clutter avoidance

Language

Korean: Native, English: Native, Japanese: Novice