

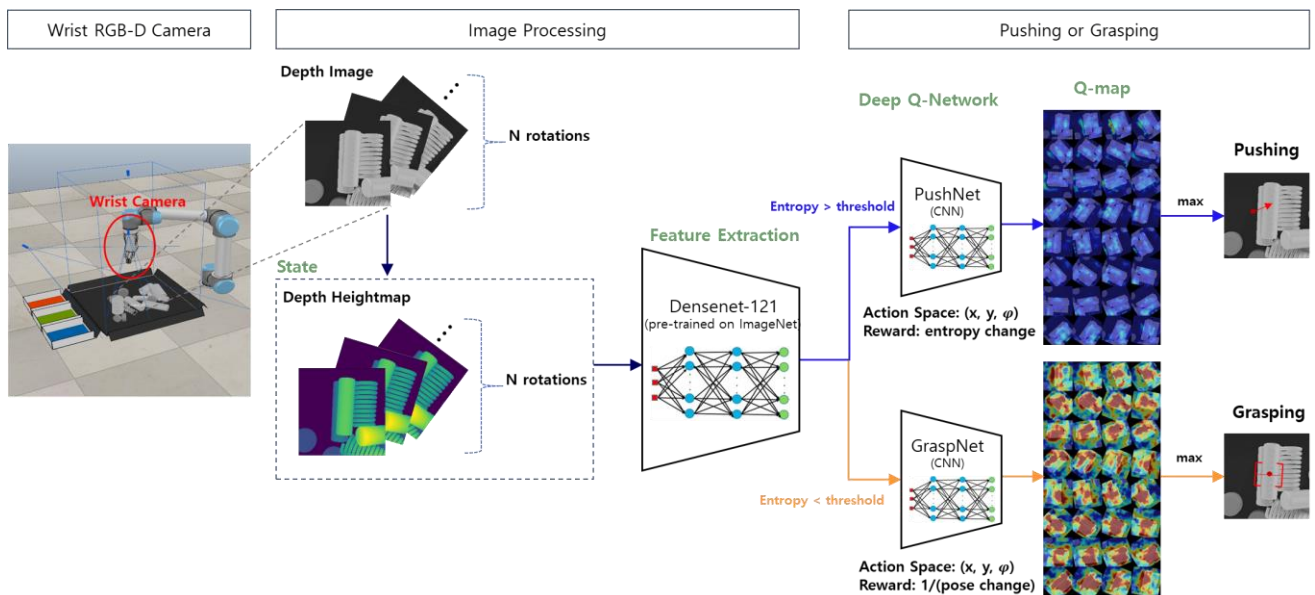
Action Intelligence

Robot Grasping Using Deep Reinforcement Learning

Introduction

- Vision-based grasp pose estimation using deep reinforcement learning
- Self-supervised learning of grasping target object in cluttered environment

System Overview



Main Technologies and Outstanding Characteristics

- Robustly grasping object in cluttered environment using pushing
- Continual learning for grasping target object with minimal information (i.e. center)
- No need of human efforts for grasp pose annotations
- Directly applicable to different types of robot system

Application Areas and Expected Effects

- Flexible manufacturing systems/collaborative industrial robots
- Promising approach for robot to acquire complex skills autonomously