

Maks_{im} Sorokin

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🌐 initmaks.github.io/about/

☎ 580-495-97-95

EDUCATION

M.S., Computer Science 2017 - May 2020

Georgia Institute of Technology Atlanta, GA

Specialized in: Computational Perception and Robotics

Advised by: Dr. C. Karen Liu

B.S., Computer Engineering 2013 - 2017

Izmir University of Economics Izmir, Turkey

Honor and High Honor Student

EXPERIENCE

Head Teaching Assistant 2018 - Present

Artificial Intelligence class by Dr. Thomas Ploetz & Dr. Thad Starner

- Helped organize and lecture the class of 900 students
 - Led, supervised and guided the team of 16 Teaching Assistants
 - Redesigned existing assignments, exams and, TA workflows
- | Python | Docker | Numpy | Pandas | jupyter |

Graduate Researcher 2018 - Present

Computer Graphics Lab

- Developed vision-based Deep Reinforcement Learning pipeline for object localization and manipulation for agents with egocentric view
- Planned 1st author SIGGRAPH Asia publication in May 2020

| Python | Pytorch | Pybullet | Numpy | DDPG | SAC | TD3 |

Project Mentor & Reviewer Jan - Jul 2017

Udacity - AI and Deep Learning programs

- Mentored and guided 200+ students providing feedback on 1500+ projects
- Covering CNN, GAN, and RNN projects

| Python | Tensorflow | Keras | Numpy |

AWARDS

Scientific and Technological Research Council of Turkey 2017

Finalist of Country-wide Software Development University Competition

Informatics Association of Turkey 2017

Best University Graduation Project - University Exhibition Visitors Choice

Udacity DIDI - SDC challenge 2017

7th in round 1, and 12th in round 2 out of 2000 teams competition

Izmir University of Economics 2015-2017

Honor and High Honor Student Award Winner

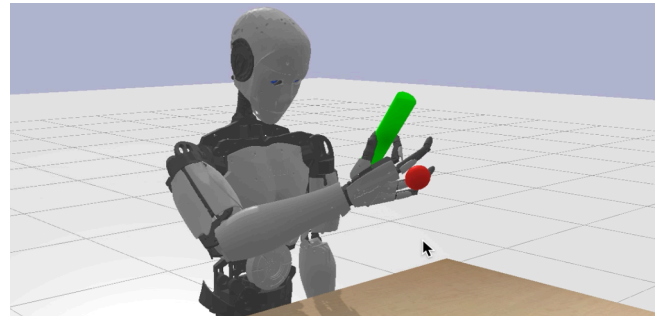
SKILLS

Working: Python, Pytorch, Numpy, Pandas, Tensorflow, Keras, OpenCV, Docker, ROS, Gazebo, PyBullet, git

Basic: C/C++, Lua

PROJECTS

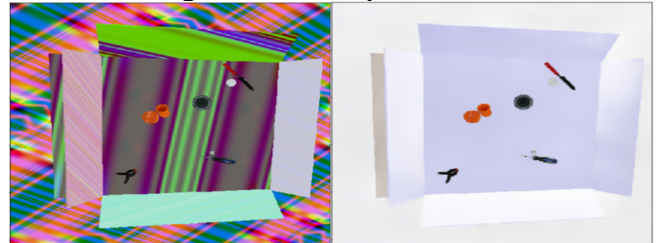
Vision based object search and manipulation



- End-to-end vision based off policy reinforcement learning
- Modeling searching behaviour & manipulation
- Visual perception from egocentric point of view

| Python | Pytorch | Pybullet | Numpy | DDPG | SAC | TD3 |

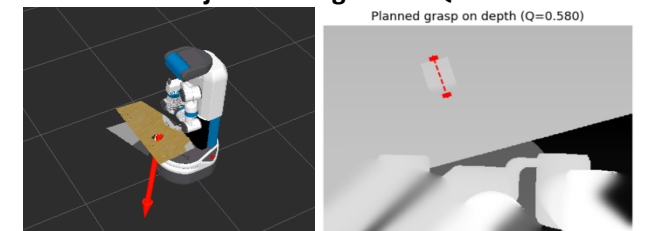
Real2Sim Image Domain Adaptation



- Real to canonical image conversion using U-net
- Trained with 100% synthetic data for real world images

| Python | UNET | Pytorch | V-REP | Numpy | fastai |

Fetch Robot Object Picking with GQ-CNN



- Navigation and object grasping ROS pipeline
- Using MoveIt! & GQ-CNN using Fetch robot in Gazebo

| Python | Tensorflow | OpenCV | Gazebo | Docker | ROS |

Swinging Character Animation



- Learning to swing on pull up bar using Deep RL.

| Python | C++ | Tensorflow | DARTsim |