Heeyang **Jung**

ROBOTICS · DEEP LEARNING · REINFORCEMENT LEARNING

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"Opportunity did not knock until I built a door."

Summary

This is Heeyang Jung, who want to be a ML Engineer focused on Robotics Control & Optimization using RL&ML. I am interested in Robotic, ML, reinforcement learning. I want to be an engineer who combines theory and practice. I want to be beneficial to people by exploring how the knowledge I learned can be used in the field or how it can be used.

Research Interests

Deep Learning   generative model, unsupervised learning
Human Robot Interaction   face detection, face alignment, 3d object detection

Education

KwangWoon University   *Seoul, Korea*
B.S. IN SCHOOL OF ROBOTICS   *Mar. 2020 - Feb. 2024(Expected)*
- **Current GPA**: 4.33/4.50, **Current Major GPA**: 4.25/4.50
- **Club**: BARAM Robotics(Robotics Academic Group) [2022 Staff], Mar.2021-Present

Work Experience

Ubiquitous Lab @ KwangWoon Univ   *Seoul,Korea*
UNDERGRADUATE LAB INTERN(ADVISOR: PROF. YONGHOON CHOI)   *Jan. 2022 - Jun. 2022*
- Solving algorithm problems(BOJ, Programmers)
- Design deep Learning pipeline

Petnow Inc   *Seoul,Korea*
UNDERGRADUATE R&D DIVISION INTERN(ADVISOR: CTO. DAEHYUN PAK)   *Jun. 2022 - Present*
- Improve biometric model named DNNet(Dog Nose Network)
- Improve backbone of DNNet
- Apply suitable loss function to DNNet

Skills

Programming   Python, C/C++, Matlab
Framework   Pytorch, Tensorflow
DevOps   Ros, Git
Languages   Korean, English

Extracurricular Activity

Neural Radiance Generative Adversarial Network for Photorealistic Space Design   *Kwangwoon University*
CAPSTONE   *Mar .2023 - Jul. 2023*
- Using **[instant-NGP]**
- Using **[CycleGAN]**
- Extended style transfer from 2D images to 3D objects
- (The source code will be released.)

Door Lock System using deep metric learning   *Baram robotics*
PERSONAL TOY PROJECT   *Sep. 2022 - Dec. 2022*
- Improving original ResNet(Pytorch) / revising downsampling architecture
- (The source code will be released.)

Reinforcement learning-based robot arm
Baram robotics

PERSONAL TOY PROJECT
Apr. 2022 - Jul. 2022

- Implementing the environment using gym(from openAI)
- Connecting the agent program to the Robot arm in ROS
- The source code related to this toy project is on my **[Github repository]**

Game learning agent based reinforcement learning
Baram robotics

PERSONAL TOY PROJECT
Sep. 2021 - Oct. 2021

- Implementing the environment required for reinforcement learning
- Apply DQN algorithm to agent
- The source code related to this toy project is on my **[Github repository]**

First Runner Project
TresC3(Venture Inc),Korea Univ

1ST STUDENT
Oct. 2021 - Feb. 2022

- Studying Autonomous racing(F1tenth)
- Making AEB(automatic emergency braking) code
- Making wall following code

Educational Activities

AI Genius Academy Mentoring
Organized by Micro School, TresC3

TEACHING ASSISTANT
Nov. 2021

- Project Assistant with Arduino and Raspberry Pi
- Support students to experience AI and proceed with the project through a Teachable Machine

Samsung Electronics App Development Mentoring
Organized by Micro School, TresC3

TEACHING ASSISTANT
Jan. 2022

- MIT App Inventor training and Project Assistant