Dong-Hee Kim

queez0405@gmail.com • queez0405.github.io • queez0405

Introduction

I'm a research engineer trying to be a better engineer than yesterday—always thinking that adapting and optimizing knowledge in papers to real-world problems. The main research interests are the reliable AI, on-device AI, and reinforcement learning.

Education

Hanyang University **Sep 2019 – Aug 2021**
Candidate for Master of Science, Advised by Prof, Ki-Seok Chung
Major in Electronic and Computer Engineering

Hanyang University **Mar 2014 – Aug 2019**
Bachelor of Science
Major in Electronic Engineering

Daegu II Science High School **Mar 2012 – Feb 2014**

Publications

- **Dong-Hee Kim***, Jaeyoon Lee* and Ki-Seok Chung. "What Matters for Out-of-Distribution Detectors using pre-trained CNN?" *Under Writing*.
- **Dong-Hee Kim**, Changwoo Lee and Ki-Seok Chung. "A Confidence-Calibrated MOBA Game Winner Predictor" *IEEE Conference on Games*, 2020.
- **Dong-Hee Kim** and Ki-Seok Chung. "Improving Decection Performance of Out-of-Distribution with Mixup" *The Korean Institute of Communications and Information Sciences Winter Conference*, 2020.
- **Dong-Hee Kim**, Sung-Jin Lee and Ki-Seok Chung. "CNN Acceleration by Exploiting SIMD Parallelism" *The Korean Institute of Communications and Information Sciences Fall Conference*, 2018.

Projects

Reinforcement learning (RL) framework on edge device **Dec 2019 – Dec 2020**
- Industrial project.
- Implementation of RL framework running on low-power edge device.
- Funded by LG electronics.

The Competency Development Program for Industry Specialist **Sep 2019 – Feb 2021**
- Industrial project.
- Funded by Ministry of Trade, Industry and Energy(MOTIE).

AI for playing Puyopuyo
- Personal project.
- Training AI for playing Puyopuyo with actor-critic and A2C.
- Tensorflow 2.x implementation.
- Github: `https://github.com/queez0405/puyopuyoRL`

Communication

Group for presenting deep learning papers **Nov 2019 –**

- Present over 5 papers from various deep learning field. Out-of-Distribution Detection, Uncertainty Estimation, Quantization etc.
- Youtube channel:`https://www.youtube.com/channel/UCDULrK2OJsiDhFroa2Aj_LQ`

Professional skills

Programming Languages: C/C++, Python, PHP, Javascript, Assembly, Verilog

Frameworks: Tensorflow, Keras, Pytorch, Darknet, Git

Platforms: Linux, Windows, Arduino, Raspberry pi

Teaching Experience

Teaching Assistant

- Microprocessor
  Fall 2019

Special Teaching Experience

- Advising Research & Education program for Hansung science high school students.
  May 2020 – Nov 2020