

DEOKKI HONG

Accelerated Computing Systems Lab.
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Research Interests

Neural Architecture Search(NAS), Generative Adversarial Network, Class Incremental Training

Education

Yonsei University Sep. 2020 – Present
M.S. in Artificial Intelligence Seoul, Korea

Yonsei University Mar. 2013 – Aug. 2020
B.S. in Economics and Computer Science Seoul, Korea

Publications

Enabling Hard Constraints in Differentiable Neural Network and Accelerator Co-Exploration DAC, 2022
Deokki Hong, Kanghyun Choi, Hyeyoon Lee, Joonsang Yu, Noseong Park, Youngsok Kim, Jinho Lee

It's All In the Teacher: Zero-Shot Quantization Brought Closer to the Teacher CVPR, 2022
Kanghyun Choi, Hyeyoon Lee, Deokki Hong, Joonsang Yu, Noseong Park, Youngsok Kim, Jinho Lee

Qimera: Data-free Quantization with Synthetic Boundary Supporting Samples NeurIPS, 2021
Kanghyun Choi, Deokki Hong, Noseong Park, Youngsok Kim, Jinho Lee

DANCE: Differentiable Accelerator/Network Co-Exploration DAC, 2021
Kanghyun Choi¹, Deokki Hong¹, Hojae Yoon¹, Joonsang Yu, Youngsok Kim, Jinho Lee

¹: indicates co-first authors

Projects

High-resolution Face Image Generation by Transformer-based GAN 2021 – Present
Electronics and Telecommunications Research Institute (ETRI)

Fast Distributed Deep Neural Network Training 2020
Korea Institute of Industrial Technology (KITECH)

Awards

• Second prize at Software Capstone Design Dec. 2019

Teaching Experience

• Logic Circuit Design (CSI2111): Teaching Assistant Fall 2021, 2020
• Multi-core and GPU Programming (CSI4119): Teaching Assistant Spring 2021

Skills

- Python, Java, C, C++
- Pytorch, Numpy, Jupyter Notebook, Matplotlib, Pandas
- Korean (Native proficiency), English (Professional working proficiency)