DEOKKI HONG

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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

Hard-constrained Differentiable Co-Exploration Method　　　　　　　　　　DAC, 2022
　for Neural Architectures and Hardware Accelerators

__Deokki Hong__, Kanghyun Choi, Hyeyoon Lee, Joonsang Yu, Noseong Park, Youngsok Kim, Jinho Lee

It's All In the Teacher:　　　　　　　　　　　　　　　　　　　　　　　CVPR, 2022
　Zero-Shot Quantization Brought Closer to the Teacher

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 Choi[1], __Deokki Hong__[1], Hojae Yoon[1], 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, Jupter Notebook, Matplotlib, Pandas**

- **Korean** (Native proficiency), **English** (Professional working proficiency)