Hye Yoon Lee

Accelerated Intelligent Systems (AISys) Lab. @ SNU Email: hylee817@snu.ac.kr

Research Interests

Trustworthy and Safe AI (Adversarial attack and defense), Accelerating AI applications (data-free learning, model compression, knowledge distillation, quantization, etc), Generative AI (GANs, VAEs, Diffusion Models)

EDUCATION

Sep. 2023 ~ Present	Seoul National University Ph.D. in Department of Electrical and Computer Engineering	Seoul, Korea
Sep. 2021 ~ Aug. 2023	Yonsei University M.S. in Computer Science, <i>GPA(4.45 / 4.5)</i>	Seoul, Korea
Mar. 2019 ~ Aug. 2021	Yonsei University B.S. in Computer Science, <i>GPA(4.09 / 4.5)</i>	Seoul, Korea

PUBLICATIONS

- Hyevoon Lee, Kanghyun Choi, Dain Kwon, SunJong Park, Mayoore Selvarasa Jaiswal, Noseong Park, Jonghyun Choi, and Jinho Lee. "DataFreeShield: Defending Adversarial Attacks without Training Data." ICML 2024.
- Jaewon Jung, Jaeyong Song, Hongsun Jang, <u>Hyevoon Lee</u>, Kanghyun Choi, Noseong Park, and Jinho Lee. "Fast Adversarial Training with Dynamic Batch-level Attack Control." DAC 2023.
- Kanghyun Choi, <u>Hyevoon Lee</u>, Deokki Hong, Joonsang Yu, Noseong Park, Youngsok Kim, and Jinho Lee. "It's all in the teacher: Zero-shot quantization brought closer to the teacher." CVPR 2022 (Oral Presentation).
- Deokki Hong, Kanghyun Choi, <u>Hyeyoon Lee</u>, Joonsang Yu, Noseong Park, Youngsok Kim, and Jinho Lee. "Enabling hard constraints in differentiable neural network and accelerator co-exploration." DAC 2022.

Awards

*	The 28th Humantech Paper Award (Silver Prize)	2022
	Co-Author	2021
***	Software Capstone Design Excellence Award	2021
	Hosted by Yonsei CS Department	
*	Asan Foundation (1 st Prize)	2020
	IT approach to social welfare	

TEACHING EXPERIENCE

Yonsei University (*Teaching Assistant*) Logic Circuit Design (Fall 2021), Multi-core and GPU Programming (Spring 2022)

Seoul National University (Teaching Assistant) Digital System Design and Practices (Fall 2023), Programming Methodology (Spring 2024)

Projects

*	Accelerating Diffusion Models for Landscape Generation	2023
	Electronics and Telecommunications Research Institute (ETRI)	
*	Semantic Modification Method for High-resolution Face Images	2022
	Electronics and Telecommunications Research Institute (ETRI)	
*	High-resolution Face Image Generation by Transformer-based GAN	2021
	Electronics and Telecommunications Research Institute (ETRI)	