Daeun Kim

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Contact Information

School of Computing, KAIST, 291 Daehak-ro, Yuseong-gu, Daejeon, South Korea, 34141

Research Interests

- Computer architecture
- Generative AI system
- HW/SW Co-design

Education

KAIST, Ph.D. in School of computing   Mar. 2025 – date
- Advisor: Prof. Jongse Park

KAIST, M.S. in School of computing   Mar. 2023 – Feb. 2025
- Advisor: Prof. Jongse Park
- Thesis: Exploiting MX Quantization for Accelerating Diffusion Transformer-based Image Generative Model Inference

KAIST, B.S. in School of computing   Mar. 2018 – Feb. 2023

Publications

MixDiT: Accelerating Image Diffusion Transformer Inference with Mixed-Precision MX Quantization   Apr. 2025

Daeun Kim, Jinwoo Hwang, Changhun Oh, Jongse Park

IEEE Computer Architecture Letters (CAL)

CoVA: Exploiting Compressed-Domain Analysis to Accelerate Video Analytics   Jun. 2022

Jinwoo Hwang, Minsu Kim, *Daeun Kim*, Seungho Nam, Yoonsung Kim, Dohee Kim, Hardik Sharma, Jongse Park

USENIX Annual Technical Conference (ATC)

Experiences

Undergrad Architecture Mentoring (uArch) Workshop mentee, ISCA 2025   Jun. 2023
Undergraduate research intern, KAIST CASys Lab   Sep. 2021 - Feb. 2023
AI engineer internship, Naviworks Co.,Ltd.   Mar. 2021 - Aug. 2021

Teaching Assistant

KAIST CS230: System Programming   Fall 2022

References

Jongse Park   jspark@casys.kaist.ac.kr
Professor, KAIST