Chanjeong Park

Curriculum Vitae

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Seoul National University (SNU)
1, Gwanak-ro, Gwanak-gu, Seoul, 08826, South Korea

RESEARCH INTERESTS

Mobile-server Collaboration for Real-time Edge Computing
Efficient DNN Models and Systems for Visual Processing

EDUCATION

Visiting Scholar in Carnegie Mellon University Sep 2025 — Present
Learning, Incentives, and Optimization for Networked Systems (LIONS) Research Group
Advised by Prof. Carlee Joe-Wong

M.S. & Ph.D in Seoul National University Sep 2023 — Present
Networked Computing (NXC) Lab.
Advised by Prof. Kyunghan Lee

B.S. in Seoul National University Mar 2017 — Aug 2023
Department of Electrical and Computer Engineering
Two-year absence due to military service (ROK Army Sergeant, Discharged)

PUBLICATIONS

Kyungmin Bin, Jongseok Park, **Chanjeong Park**, Seyeon Kim, and Kyunghan Lee, "CoActo: CoActive Neural Network Inference Offloading with Fine-grained and Concurrent Execution", ACM MobiSys (Acceptance Rate: 16.3%=43/263), Tokyo, Japan, 2024.

ONGOING PROJECTS

Fully Exploiting Temporal Redundancy of Video Input in Vision Transformer
Chanjeong Park, Donggyu Yang, Sooyoung Kwon, Gibum Park and Kyunghan Lee
Submitted for review. Addressing the critical patch misalignment barrier in ViT video inference, which causes recomputation on false residuals.

Progressive Refinement of ViT Inference for Network-server Coactive Offloading
Chanjeong Park, Carlee Joe-Wong and Kyunghan Lee
Manuscript in preparation. Initiating inference on an early-arriving, low-resolution image and progressively refining the output using subsequently-arriving high-resolution details.

Sever-mobile Collaborative Inference of LLMs
Gibum Park, Yonghwa Cho, Sanghyun Han, **Chanjeong Park** and Kyunghan Lee
Submitted for Review. Designing a server–edge collaborative LLM inference system with a single-turn, token-based communication.

HONORS AND AWARDS

Best Presentation Award Nov 2024
A3 Foresight Program 2024 (Beijing, China)

ACM Student Travel Grant June 2024
The 22th ACM International Conference on Mobile Systems, Applications, and Services (Tokyo, Japan)

Ministry of National Defense Award Nov 2020
2020 Open Source Academy for Military
Awarded for outstanding performance and leadership as the leader of a top-performing team

TEACHING EXPERIENCES

Industrial Applications of Electrical and Electronic Technologies, SNU Fall 2024
Teaching Assistance
Lead Instructor: Adjunct Prof. Byounghoon Kim (Vice President, LG Electronics)

Introduction to Random Variables and Random Processes, SNU Spring 2024
Teaching Assistance
Class Lecturer: Prof. Kyunghan Lee

COURSEWORKS

Computer Architecture, SNU Fall 2021
Designed and implemented a pipelined CPU in Verilog, featuring a fully associative cache and DMA support

Scalable High Performance Computing, SNU Fall 2023
Implemented a distributed inference system for DNN Models in C/C++/CUDA, covering the full stack from custom compute kernels to collective communication protocols

SKILLS AND TECHNIQUES

Computer Languages
C/C++, AArch64 ASM, CUDA, Python

Software and Tools
LaTeX