Junhyuk So

Google Scholar

EDUCATION

_	M.S/Ph.D - POSTECH (Advisor : Eunhyeok Park)
•	Department of Computer Science and Enginnering

B.S - University Of Seoul

Department of Electrical and Computer Engineering

Research Interests

- Efficient AI
- quantization, pruning, neural architecture search
- Machine Learning generative model, multimodal learning, representation learning
- Computer System GPU kernel design, neural network accelerator, computer systems

PUBLICIATIONS

* co-first author, [*] First-authored top-tier conference

CONFERENCE

2024

• [ECCV24] Junhyuk So*, Jungwon Lee*, Eunhyeok Park, "FRDiff : Feature Reuse for Universal Training-free Acceleration of Diffusion Models", ECCV The 18th European Conference on Computer Vision, Oct, 2024

2023

- [NeurIPS23] Junhyuk So*, Jungwon Lee*, Daehyun Ahn, Hyungjun Kim, Eunhyeok Park, "Temporal • Dynamic Quantization for Diffusion Models" NeurIPS 37th Conference on Neural Information Processing Systems, Dec, 2023
- [NeurIPS23] Junhyuk So*, Changdae Oh*, Yongtaek Lim, Hoyoon Byun, Minchul Shin, Kyungwoo Song, "Geodesic Multi-Modal Mixup for Robust Fine-Tuning" NeurIPS 37th Conference on Neural Information Processing Systems, Dec, 2023
- [CVPR23] Juncheol Shin*, Junhyuk So*, Sein Park, Seungyeop Kang, Sungjoo Yoo, Eunhyeok Park, "NIPQ : Noise porxy based Integraded Psuedo Quantization " IEEE/CVF CVPR Computer Vision and Pattern Recognition Conference, June, 2023
- Eunchong Noh, Junhyuk So, Seunghwan Lee, "Machine-Learning based Optimal Design of a Wireless Power Transfer Coil for Battery-Powered Tram" ICPE 2023-ECCE Asia 11th International Conference on Power Electronics, May, 2023

2022

• Changdae Oh, Heeji Won, Junhyuk So, Taero Kim, Yewon Kim, Hosik Choi, Kyungwoo Song, "Learning Fair Representation via Distributional Contrastive Disentanglement" ACM SIGKDD International Conference on Knowledge Discovery Data Mining. July, 2022 (https://dl.acm.org/doi/10.1145/3534678.3539232)

2021

[CODES21] Chanyoung Oh*, Junhyuk So*, Sumin Kim*, Youngmin Yi, "Exploiting Activation Sparsity for ٠ Fast CNN Inference on Mobile GPUs" International Conference on Hardware/Software Codesign and System Synthesis (CODES+ISSS) Oct, 2021 (https://dl.acm.org/doi/abs/10.1145/3477008)

JOURNAL [SCI]

2023

• Junhyuk So*, Yongtaek Lim, Yewon Kim, Changdae Oh, Kyungwoo Song, "Robust Contrastive Learning With Dynamic Mixed Margin" IEEE Access June, 2023 (https://ieeexplore.ieee.org/abstract/document/10154052)

2021

• Chanyoung Oh*, Junhyuk So*, Sumin Kim*, Youngmin Yi, "Exploiting Activation Sparsity for Fast CNN Inference on Mobile GPUs" ACM Transactions on Embedded Computing Systems (TECS) Oct, 2021 (https://dl.acm.org/doi/abs/10.1145/3477008)

Pohang, Korea 2022 - Present

> Seoul, Korea 2018 - 2022

JOURNAL [DOMESTIC]

2020

• 김도희, 이상헌, 정세환, **소준혁**, 이영민, "CCTV 영상에서 얼굴인식과 사람 재식별을 이용한 확진자 고속 검색 시스템(Fast Confirmed Case Search System using Face Recognition and Person Re-identification in CCTV Video)", 한국정보과학회(KSC) 학술발표논문집 pp.1572-1574. Dec, 2020 (https://www.dbpia.co.kr/Journal/articleDetail?nodeId=NODE10530078)

ACADEMIC SERVICES

• Reviewer - NeurIPS24, CVPR24, AAAI24, ICLR25

Awards

- Participation Award in Junior Student track, Korea Software Congress, Korea (Dec. 2020)
- First Prize in Research Sharing Contest, University Of Seoul, Korea (Dec. 2020)

Skills

- Python, C/C++, Javascript, Java
- CUDA, OpenCL
- Pytorch, Tensorflow
- React, React Native, Android

MISC

• Homepage : https://junhyukso.github.io