

Junhyuk So

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EDUCATION

- **M.S/Ph.D - POSTECH (Advisor : Eunhyeok Park)** Pohang, Korea
Department of Computer Science and Engineering 2022 - Present
- **B.S - University Of Seoul** Seoul, Korea
Department of Electrical and Computer Engineering 2018 - 2022

RESEARCH INTERESTS

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

PUBLICATIONS

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

CONFERENCE

- 2025
- **[CVPR25] Junhyuk So**, Jiwoong Shin, Chaeyeon Jang, Eunhyeok Park, "PCM : Picard Consistency Model for Fast Parallel Sampling of Diffusion Models", **CVPR** The IEEE/CVF Conference on Computer Vision and Pattern Recognition, 2025
- 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 Integrated 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 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]
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- 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>)

JOURNAL [DOMESTIC]

2020

- 김도희, 이상현, 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>