

Sejin Park

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Research Interests

Efficient AI; Inference-efficient models, Data-efficient learning, Hardware-aware models
Low-level Vision; Image restoration, Camera ISP

Education

Ph.D.	Korea University, Department of Electrical and Computer Engineering, Seoul, Korea Advisor: Prof. Seung-Won Jung(Deep Image Processing Lab) 🔗	Mar 2024 – Present
Integrated B.S. & M.S.	Seoul National University of Science and Technology, Department of Electrical Engineering, Seoul, Korea Advisor: Prof. Byeongkeun Kang (Physical AI Lab) 🔗	Mar 2018 – Feb 2024

Publications

† Equal contribution.

Anonymous Submission 2026

Juhyun Bae[†], **Sejin Park[†]**, Seung-Won Jung.

Anonymous Submission 2026

Sejin Park, Hongjae Lee, Changwoo Han, Seung-Won Jung.

IM-LUT: Interpolation Mixing Look-Up Tables for Image Super-Resolution 2025

Sejin Park, Sangmin Lee, Kyong Hwan Jin, Seung-Won Jung.

In Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV 2025)

Acceptance rate : 24.0%

FDCNet: Feature Drift Compensation Network for Class-Incremental Weakly Supervised Object Localization 2023

Sejin Park[†], Taehyung Lee[†], Yeejin Lee, Byeongkeun Kang.

In Proceedings of the 31st ACM International Conference on Multimedia (MM 2023)

Acceptance rate : 24.6%

Books

Introduction to Computer Vision for Future Mobility 2025

Sejin Park and Seung-Won Jung.

ISBN: 9791175000766

Patent Application

Lookup table-based multi-interpolation hybrid method and device for arbitrary scale image super-resolution

S. Park and Seung-Won Jung

KR Application 10-2025-0104234, 2025

Research Projects

AI for Science & Technology National Research Foundation of Korea (NRF)	Sep 2026 - Present
Lightweight LLMs with Logic Gate Networks National Research Foundation of Korea (NRF)	Sep 2025 - Present
SPAD Camera ISP National Research Foundation of Korea (NRF)	Mar 2024 - Sep 2025
Class-Incremental Object Localization via Weakly Supervised Learning and Language Model National Research Foundation of Korea (NRF)	Jun 2023 - Feb 2024
Development of Smart Total Management System for Small Scale Water Supply Facilities National Research Foundation of Korea (NRF)	May 2022 - Apr 2024
VR/AR Content Generation System Reflecting User Context Institute for Information & communication Technology Planning & evaluation (IITP)	Apr 2020 - Dec 2022
AI-based Water Management System National Research Foundation of Korea (NRF)	Apr 2021 - Jun 2022
Attention-based Visual Object Tracking System Electronics and Telecommunications Research Institute (ETRI)	Sep 2020 - Nov 2021

Teaching Experience

Department of Electrical Engineering, Korea University
KECE404, Engineering Design II, Fall 2025
KECE403, Engineering Design I, Spring 2025
KECE370, Digital Signal Processing, Fall 2024

Skills

Programming: Python, C/C++, MATLAB

Frameworks: PyTorch, Docker

Languages: Korean, English