SEUNGHWAN LEE

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EDUCATION

M.S. in Immersive Media Engineering — Mar 2024 – Feb 2026
Sungkyunkwan University, Seoul, South Korea, GPA: 4.5/4.5
Advised by Professor Sungeun Hong

B.S. in Information and Communication Engineering — Mar 2017 - Feb 2024
Inha University, Incheon, South Korea, GPA: 3.75/4.5; Major GPA: 3.89/4.5

PUBLICATIONS

C02 A Jung, **Seunghwan Lee**, D Han, S Hong. "SyMerge: From Non-Interference to Synergistic Merging via Single-Layer Adaptation", Under Review [PDF]

J02 **Seunghwan Lee***, I Jung*, H Lee, E Park, S Hong. (*: equal contributions), "Instance-Aware Test-Time Segmentation for Continual Domain Shifts", Under Review [PDF]

C01 Y Kim*, **Seunghwan Lee***, A Jung*, B Ryu, S Hong. (*: equal contributions), "Task Vector Quantization for Memory-Efficient Model Merging", International Conference on Computer Vision (**ICCV 2025**) [PDF]

J01 H Lee, **Seunghwan Lee***, I Jung*, S Hong. (*: equal contributions), "Prototypical class-wise test-time adaptation", Pattern Recognition Letters, 2025. [PDF]

PROJECTS

Sensor Fusion and Missing Modality Handling for Occluded Instance Segmentation in Autonomous Driving
M.S. Students Fellowship by National Research Foundation (NRF) — Sep 2024 - Aug 2025
Served as Principal Investigator(PI), independently drafted the project proposal and executed the research

RGB-X Path Networks for Multi-modal Multi-task Learning
Funded by National Research Foundation (NRF) — Aug 2024 - Feb 2026
Efficient fusion of RGB images with optional modalities (depth, thermal, etc.) and knowledge transfer across tasks

HONORS AND AWARDS

3rd Place, Infrared Instance Segmentation Challenge at ICRA 2025 (Hanwha Systems) — May 2025

Outstanding Paper Award at IPIU 2025 — Feb 2025

Excellence Award, Capstone Design at Inha University — Dec 2023

PATENTS

System and Method for Ultra-Low-Precision Model Merging Based on Task Vector Decomposition — 2025
Republic of Korea, 10-2025-0176483 (Applications)

Apparatus and Method for Test-Time Adaptation of an Image Learning Model — 2024
Republic of Korea, 10-2024-0168645 (Applications)

TEACHING EXPERIENCE

Generative Deep Learning (CNT3070), Sungkyunkwan University — Fall 2025

CERTIFICATION

Advanced Data Analytics Semi-Professional (ADsP) — 2022