Seunghwan Lee

Seoul, South Korea | nommis911@gmail.com | Personal Website | nomis911

Research Interest

I am broadly interested in model efficiency and transfer. My current research focuses on the following topics:

Model merging: Building universal models by merging the parameters of multiple separate models

Domain transfer: Adapting models to new tasks or domains with minimal supervision or data

Efficient machine learning: Reducing memory and computation costs in deep neural networks through quantization, pruning, and other compression techniques

Education

M.S. Sungkyunkwan University, Immersive Media Engineering — Mar 2024 – present
- GPA: 4.5 / 4.5
- Advisor: Prof. Sungeun Hong

B.E. Inha University, Information and Communication Engineering — Mar 2017 – Feb 2024
- GPA: 3.75 / 4.5

Publications

*Equal contribution are denoted by **

Task Vector Quantization for Memory-Efficient Model Merging — Oct 2025
Youngeun Kim*, ***Seunghwan Lee****, Aecheon Jung*, Bogon Ryu, Sungeun Hong
International Conference on Computer Vision (ICCV) 2025

Why Train Everything? Tint a Single Layer for Multi-task Model Merging — Mar 2025
Aecheon Jung, ***Seunghwan Lee***, Dongyoon Han, Sungeun Hong
Preprint

Prototypical class-wise test-time adaptation — Jan 2025
Hojoon Lee, ***Seunghwan Lee****, Inyoung Jung*, Sungeun Hong
Pattern Recognition Letters 2025

Projects

Sensor Fusion and Missing Modality Handling for Occluded Instance Segmentation in Autonomous Driving — Sep 2024 - Aug 2025
M.S. Students Fellowship by National Research Foundation of Korea (NRF)

Honors and Awards

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

Honorable Mention for Outstanding Paper Award, IPIU 2025 — Feb 2025

Excellence Award, Capstone Design for Information and Communication Engineering, Inha University — Dec 2023