

Dong Hoon Lee

CONTACT INFORMATION	Korea Advanced Institute of Science and Technology (KAIST) 291 Daehak-ro, Yuseong-gu 34141 Daejeon, Republic of Korea	Phone: +82-010-9741-9959 Email: donghoonlee@kaist.ac.kr Homepage: https://movinghoon.github.io
RESEARCH INTERESTS	I am broadly interested in making vision models more efficient—faster, lighter, and cheaper—by reducing data requirements and computational costs. I am also interested in representation learning without supervision and have contributed to some projects. <i>Few-shot Learning, Efficient Vision Transformers, Self-supervised Learning</i>	
EDUCATION	Ph.D. , Kim Jaechul Graduate School of AI Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea	<i>Mar. 2018 – Expected Feb. 2026</i>
	M.S. , Electrical Engineering Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea	<i>Feb. 2018</i>
	B.S. , Electrical Engineering Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea	<i>Feb. 2016</i>
	Korea Science Academy , Busan, Republic of Korea	<i>Feb. 2012</i>
HONORS	Korea Government Fellowship Qualcomm Innovation Fellowship, 2021 South Korea Finalist NeurIPS 2022 Scholar Award	<i>March 2012 to 2026</i> <i>2021</i> <i>2022</i>
EXPERIENCE	Research Intern, LG AI Research, Seoul, Korea	<i>April 2022 to October 2022</i>
PUBLICATION	[C] Conference [P] Preprint	
	[C1] Dong Hoon Lee and Song Chong, “ <i>Learning based Utility Maximization for Multi-resource Management</i> ”, International Conference on Future Internet Technologies (CFI) 2018.	
	[C2] Dong Hoon Lee and Sae-Young Chung, “ <i>Unsupervised Embedding Adaptation via Early-Stage Feature Reconstruction for Few-Shot Classification</i> ”, in International Conference on Machine Learning (ICML) 2021.	
	[C3] Dong Hoon Lee , Sungik Choi, Hyunwoo Kim, and Sae-Young Chung, “ <i>Unsupervised Visual Representation Learning via Mutual Information Regularized Assignment</i> ”, in Neural Information Processing Systems (NeurIPS), 2022.	
	[C4] Dong Hoon Lee and Seunghoon Hong, “ <i>Learning to Merge Tokens via Decoupled Embedding for Efficient Vision Transformers</i> ”, in Neural Information Processing Systems (NeurIPS), 2024.	
	[C5] Whie Jung, Dong Hoon Lee , Seunghoon Hong, “ <i>Disentangled Representation Learning via Modular Compositional Bias</i> ”, in Neural Information Processing Systems (NeurIPS), 2025.	
	[C6] Kiet T Nguyen, Chanhyuk Lee, Donggyun Kim, Dong Hoon Lee , Seunghoon Hong, “ <i>Universal Few-shot Spatial Control for Diffusion Models</i> ”, in Neural Information Processing Systems (NeurIPS), 2025.	

PATENTS	[P1] Dong Hoon Lee and Seunghoon Hong, "Variable Length Tokenization via Token Merging for Flexible Diffusion Transformers", in preparation, 2025.
PROJECT EXPERIENCE	[1] Song Chong, Yeongjin Kim, Jeongho Kwak, Dong Hoon Lee , "Hybrid Content Caching Method and System", Nov. 2016.
	Scalable representation construction by self-supervision without prior task experience National Research Foundation of Korea (NRF) March 2021 to April 2022
	Pre-prediction Modeling for autonomous network operation Ministry of Science, ICT and Future Planning April 2017 to August 2018
	Versatile Network System Architecture for Multi-dimensional Diversity Ministry of Science, ICT and Future Planning April 2016 to November 2017
PROGRAMMING LANGUAGES	Python (PyTorch/TensorFlow) GitHub: https://github.com/movinghoon
LANGUAGES	Korean, English
ACADEMIC SERVICES	Conference reviewer - ICML (2022-2025), NeurIPS (2023-2025), ICLR (2025), CVPR (2023-2025), ICCV (2023-2024), ECCV (2024)
TEACHING EXPERIENCE	Teaching Assistant (KAIST) Fall 2016 to Fall 2019 <ul style="list-style-type: none">EE807 Special Topics in EE: Mathematical Foundation of Reinforcement LearningEE807 Special Topics in EE: Deep Reinforcement Learning and AlphaGoEE405 Electronics Design Lab: Robocam/Network of Smart ThingsEE210 Probability and Introductory Random Process