Dong In Lee

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Research Interests

3D Computer Vision, Vision-Langauge Model, 3D/4D Generation, Human–Object Interaction, AI Watermarking

Experience

Convergence Design Lab, Purdue University
Supervisor: Prof. Karthik Ramani (Convergence Design Lab ↗)
West Lafayette, IN, USA
Feb. 2025 – Feb. 2026
(expected)

Computer Vision Lab, Korea University
Supervisor: Prof. Sangpil Kim (Computer Vision Lab ↗)
Seoul, Korea
Mar. 2023 – Present

System Software Laboratory, Hankuk University of Foreign Studies
Supervisor: Prof. Seung-Ho Lim (System Software Laboratory ↗)
Yongin, Korea
Apr. 2022 – Mar. 2023

Military Service, Republic of Korea Army
Information System Operation & Maintenance
Aug. 2019 – Feb. 2021

Education

Ph.D.   **Korea University**, Department of Artificial Intelligence   Aug. 2023 – Present
- Supervisor: Prof. Sangpil Kim (Computer Vision Lab ↗)

B.S.   **Hankuk University of Foreign Studies**, Computer & Electronic System Engineering   Feb. 2018 – Aug. 2023
- GPA: 4.1/4.5
- Supervisor: Prof. Seung-Ho Lim (System Software Laboratory ↗)

Publications

Conferences

Dynamic-eDiTor: Training-Free Text-Driven 4D Scene Editing with Multimodal Diffusion Transformer   2026
Dong In Lee*, Hyungjun Doh*, Seunggeun Chi, Runlin Duan, Sangpil Kim, Karthik Ramani
Under Review. **Equal Contribution*

3D-Consistent Multi-View Editing by Diffusion Guidance   2026
Josef Bengtson, David Nilsson, **Dong In Lee**, Fredrik Kahl
Under Review.

Temporally Consistent Amodal Completion for 3D Human-Object Interaction Reconstruction   2025
Hyungjun Doh*, **Dong In Lee***, Seunggeun Chi, Pin-Hao Huang, Kwonjoon Lee, Sangpil Kim, Karthik Ramani
ACM Multimedia 2025. **Equal Contribution*

EditSplat: Multi-View Fusion and Attention-Guided Optimization for View-Consistent 3D Scene Editing with 3D Gaussian Splatting   2025
Dong In Lee, Hyeongcheol Park, Jiyoung Seo, Eunbyung Park, Hyunje Park, Ha Dam Baek, Shin Sangheon, Sangmin Kim, Sangpil Kim
CVPR 2025.

Insightful Instance Features for 3D Instance Segmentation   2025
Wonseok Roh, Hwanhee Jung, Giljoo Nam, **Dong In Lee**, Hyeongcheol Park, Sang Ho Yoon, Jungseock Joo, Sangpil Kim
CVPR 2025.

WateRF: Robust Watermarks in Radiance Fields for Protection of Copyrights   2024
Youngdong Jang, **Dong In Lee**, MinHyuk Jang, Jong Wook Kim, Feng Yang, Sangpil Kim
CVPR 2024.

Development of Parameter Bit Operation Framework for Deep Neural Networks   2024
Dong In Lee, Jung-Heon Kim, Seung-Ho Lim
ICCE 2024.

Journal

Egocentric Hand Activity Video Dataset and Bidirectional Motion-Priors for Hand Action Recognition   2023
Jiyoung Seo, **Dong In Lee**, Pilhyeon Lee, Jiwoo Lee, YounHee Gil and Karthik Ramani and Sangpil Kim
IEEE Access, https://doi.org/10.1109/ACCESS.2026.3652803 ↗

A study on the development of a crop disease diagnosis mobile app service based on deep learning   2023
Dong In Lee, Ji Hwan Lee, Seung Ho Jang, Se Jong Oh, Ill Chul Doo
Applied Sciences, 13(5):3148. https://doi.org/10.3390/app13053148 ↗

Awards & Scholarships

Scholarships

- Academic Excellent Scholarship (2022-1, 2022-2)
- Merit Scholarship; Teaching Assistant, Discrete Mathematics (2022-1)
- Merit Scholarship; Teaching Assistant, Database (2022-2)
- Merit Scholarship; Department Office Assistant (2021-2)

Awards

- Excellence Prize, Capstone Design and Practice, HUFS (Dec. 2022)
- Excellence Prize, AI for Future Society, Dongguk University & LINC 3.0 (Dec. 2022)
- Excellence Prize, AI Idea Festival, HUFS (Nov. 2022)
- Excellence Prize, Data Youth Campus, Korea Data Agency & Ministry of Science and ICT (Aug. 2022)
  News link ↗

Teaching & Advising

Teaching Assistant, IoT (Internet of Things)   Mar. 2023 – Jul. 2023
PI: Seung-Ho Lim, Division of Computer Engineering, HUFS

Teaching Assistant, Database   Sep. 2022 – Dec. 2022
PI: Ki Rack Son, Division of Computer Engineering, HUFS

Teaching Assistant, Discrete Mathematics   Mar. 2022 – Jul. 2022
PI: Yoo Jin Jung, Division of Computer Engineering, HUFS