Kangsan Kim

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Research Interests

My research interest lies in developing AI assistants that understand the world and interact with humans through visual data. Previous works focus on video understanding for real-world applications, including out-of-domain video understanding and video-based multimodal RAG. I am also interested in embodied MLLMs that operate on egocentric video with strong spatial reasoning ability.

Education

KAIST — Seoul, S. Korea
Ph.D. in Artificial Intelligence — Mar 2024 - Present
Advisor: Prof. Sung Ju Hwang

KAIST — Daejeon, S. Korea
B.S. in Computer Science — Mar. 2018 - Feb. 2024
Minor in Business and Technology Management

Experience

B GARAGE — San Jose, CA, United States
Computer Vision Engineer Intern — Oct 2022 - Jul 2023
Developed an ultra-fast edge instance segmentation model that can segment anything in the warehouse.

NAVER (Papago) — Remote
Machine Learning(NLP) Scientist Intern — Jul 2021 - Nov 2021
Built and improved end-to-end Korean-English speech translation model.

Publications

HoliSafe: Holistic Safety Dataset and Benchmark for Vision-Language Models
Youngwan Lee, Kangsan Kim, Kwanyong Park, Ilchae Jung, Soojin Jang, Seanie Lee, Yong-Ju Lee, Sung Ju Hwang
Under review, 2025

UniversalRAG: Retrieval-Augmented Generation over Multiple Corpora with Diverse Modalities and Granularities
Woongyeong Yeo*, Kangsan Kim*, Soyeong Jeong, Jinheon Baek, Sung Ju Hwang
Under review, 2025

VideoRAG: Retrieval-Augmented Generation over Video Corpus
Soyeong Jeong*, Kangsan Kim*, Jinheon Baek*, Sung Ju Hwang
Findings of the Association for Computational Linguistics **(ACL Findings)**, 2025

VideoICL: Confidence-based Iterative In-context Learning for Out-of-Distribution Video Understanding
Kangsan Kim*, Geon Park*, Youngwan Lee, Woongyeong Yeo, Sung Ju Hwang
Conference on Computer Vision and Pattern Recognition **(CVPR)**, 2025

*: equal contribution

Honors

Qualcomm-KAIST Innovation Award, 2023
Dean's List, College of Engineering, 2020 Spring