

Hoiyeong Jin

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RESEARCH INTERESTS

Generative Models, Image/Video Generation and Editing, Vision-Language-Action (VLA) models

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST)

Mar. 2025 – present

Integrated M.S./Ph.D. in Artificial Intelligence (Advisor: Dr. Jaegul Choo)

KyungHee University

Mar. 2019 – Feb. 2023

Bachelor of Software Convergence, (GPA 4.02 / 4.5)

PUBLICATIONS

- [5] **InsertAnywhere: Bridging 4D Scene Geometry and Diffusion Models for Realistic Video Object Insertion**

Hoiyeong Jin*, Hyojin Jang*, Jeongho Kim*, Junha Hyung, Kinam Kim, Dongjin Kim, Huijin Choi, Hyeonji Kim, Jaegul Choo

Under Review, 2026

- [4] **Infinite-Homography as Robust Conditioning for Camera-Controlled Video Generation**

Minjung Kim*, Jeongho Kim*, **Hoiyeong Jin**, and Jaegul Choo

Under Review, 2026

- [3] **ACG: Action Coherence Guidance for Flow-based VLA models**

Minho Park*, Kinam Kim*, Junha Hyung, Hyojin Jang, **Hoiyeong Jin**, Jooyeol Yun, Hojoon Lee, Jaegul Choo

Under Review, 2026

- [2] **PromptDresser: Improving the Quality and Controllability of Virtual Try-On via Generative Textual Prompt and Prompt-aware Mask**

Jeongho Kim*, **Hoiyeong Jin***, Sunghyun Park and Jaegul Choo

IEEE/CVF International Conference on Computer Vision (ICCV), 2025.

- [1] **Descanning: From Scanned to the Original Images with a Color Correction Diffusion Model**

Junghun Cha*, Ali Haider*, Seoyun Yang, **Hoiyeong Jin**, Subin Yang, A F M SHAHAB UDDIN, Jaehyeong Kim, Soo Ye Kim and Sung-Ho Bae

In Proceedings of the AAAI Conference on Artificial Intelligence (AAAI), 2024.

AWARDS

Military AI Competition (MAICON)

2022

- Building Change Detection Using Aerial Image Data (Segmentation)
- Image Denoising for All-Weather Mission Execution (Image Restoration)
- 3rd ranked

KHUGGLE AI Challenge

2022

- Real-World Super-Resolution
- 2nd ranked

Samsung AI Challenge : Image Quality Assessment

2023

- Predicting Quantitative Evaluation Scores for the Quality of Image (IQA)
- Expressing the Evaluation Results in Natural Language (Image Captioning)
- 3rd ranked

Military AI Competition (MAICON)

2023

- Deepfake Video Classification
- 4th ranked (2nd ranked on leaderboard)