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 Master's and Ph.D. program 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)
- 3nd ranked

Military AI CompetitiON (MAICON) 2023
- Deepfake Video Classification
- 4th ranked (2nd ranked on leaderboard)