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Education

Korea University

Integrated M.S. & Ph.D. student
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Present

Gachon University

B.S. in AI-Software

Seongnam, South Korea

Feb. 2024

Research Interests

Diffusion Model, Guidance method

Associative Memory, Signal Representation

Projects

Samsung Research, Next Generation Display Lab

Development of user-preferred image-based image quality technology

Seoul, South Korea

June. 2024 - June. 2025

Samsung Research, Next Generation Display Lab

Development of a Self-Learning-Based High-Resolution Infinite-Zoom Technology

Seoul, South Korea

Oct.01 2025 - Sep.30 2026

Peer-reviewed Papers

*: Equal contribution, ^S: Samsung Research

1. **Hyunmin Cho**, Woo Kyoung Han and K.H. Jin[†], “Balancing Fidelity and Diversity in Diffusion Models via Symmetric Attention Decomposition: Hopfield Perspective”, Forty-Third International Conference on Machine Learning (ICML), 2026, Accepted. [paper]
2. **Hyunmin Cho**^{*}, Donghoon Ahn^{*}, Susung Hong^{*}, Jee Eun Kim, Seungryong Kim[†] and K.H. Jin[†], “TAG:Tangential Amplifying Guidance for Hallucination-Resistant Sampling”, Forty-Third International Conference on Machine Learning (ICML), 2026, Accepted. [paper]
3. Byeonghun Lee^{*}, **Hyunmin Cho**^{*}, Honggyu Choi^S, Soo Min Kang^S, Iljun Ahn^S and K.H. Jin[†], “Reference-based Super-Resolution via Image-based Retrieval-Augmented Generation Diffusion”, IEEE/CVF International Conference on Computer Vision (ICCV), 2025, Accepted. [paper]
4. Woo Kyoung Han, Byeonghun Lee, **Hyunmin Cho**, Sunghoon Im[†] and Kyong Hwan Jin[†], “Towards Lossless Implicit Neural Representation via Bit Plane Decomposition”, IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2025, Accepted. [paper]

Reference

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