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Education

KAIST (Korea Advanced Institute of Science and Technology)

Daejeon, Korea

INTEGRATED M.S. & Ph.D. IN DEPARTMENT OF ELECTRICAL ENGINEERING

Mar. 2020 - Aug. 2025

- · Advisor: Changick Kim
- GPA: 4.05/4.3

KAIST (Korea Advanced Institute of Science and Technology)

Daejeon, Korea

Mar. 2015 - Feb. 2020

B.S. IN DEPARTMENT OF ELECTRICAL ENGINEERING

- Got a National Academic Excellence Scholarship (Science and Engineering, Korea)
- GPA: 3.75/4.3 Cum Laude

Research Interest

Diffusion Architecture Reimagine diffusion training as multi-task learning and synergize multiple denoising tasks. [C4] [C6]

Solve practical problems in generating 3D scenes or objects from a single image. [J1] [C5] One-Image-to-3D

Text-to-3D Scene Currently, I am interested in direct generation of 3D Gaussian Splatting only from text prompts. [P3]

Publication

(C: conference, J: journal, P: preprint, *: Equal Contribution)

JOURNAL

[J1] Bridging Implicit and Explicit Geometric Transformation for Single-Image View Synthesis

2024

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)

Byeongjun Park*, Hyojun Go*, Changick Kim

CONFERENCE

[C6] Switch Diffusion Transformer: Synergizing Denoising Tasks with Sparse Mixture-of-Experts

2024

EUROPEAN CONFERENCE ON COMPUTER VISION (ECCV)

Byeongjun Park, Hyojun Go, Jinyoung Kim, Sangmin Woo, Seokil Ham, Changick Kim

[C5] HarmonyView: Harmonizing Consistency and Diversity in One-Image-to-3D

2024

IEEE/CVF COMPUTER VISION AND PATTERN RECOGNITION CONFERENCE (CVPR)

Sangmin Woo*, **Byeongjun Park***, Hyojun Go, Jinyoung Kim, Changick Kim

[C4] Denoising Task Routing for Diffusion Models

2024

INTERNATIONAL CONFERENCE ON LEARNING REPRESENTATIONS (ICLR)

Byeongjun Park*, Sangmin Woo*, Hyojun Go*, Jinyoung Kim*, Changick Kim

[C3] Point-DynRF: Point-based Dynamic Radiance Fields from a Monocular Video

IEEE/CVF WINTER CONFERENCE ON APPLICATIONS OF COMPUTER VISION (WACV)

Byeongjun Park, Changick Kim

[C2] Temporal Flow Mask Attention for Open-Set Long-Tailed Recognition of Wild Animals in **Camera-Trap Images**

IEEE INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP)

Jeongsoo Kim, Sangmin Woo, Byeongjun Park, Changick Kim

[C1] Fine-Grained Multi-Class Object Counting

2021

IEEE INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP)

Hyojun Go, Junyoung Byun, Byeongjun Park, Myung-Ae Choi, Seunghwa Yoo, Changick Kim

PREPRINT

[P3] SplatFlow: Multi-View Rectified Flow Model for 3D Gaussian Splatting Synthesis ARXIV Hyojun Go*, Byeongjun Park*, Jiho Jang, Jin-Young Kim, Soonwoo Kwon, Changick Kim [P2] Diffusion Model Patching via Mixture-of-Prompts ARXIV Seokil Ham*, Sangmin Woo*, Jin-Young Kim, Hyojun Go, Byeongjun Park, Changick Kim [P1] DiffRef3D: A Diffusion-based Proposal Refinement Framework for 3D Object Detection ARXIV

Patents_

Method and apparatus with scene flow estimation

Se-Ho Kim*, Inyong Koo*, Inyoung Lee, Byeongjun Park, Changick Kim

2022

Youngjun Kwak, Taekyung Kim, Changick Kim, Byeongjun Park, Changbeom Park

Work Experience _____

Koh Young Technology Seoul, Korea

AI RESEARCH INTERN Mar. 2018 - aug. 2018

• I was a member of the research team working on an Al-based solution for optimizing the process of mounting chips on PCB boards.

Honors & Awards

2021 Best Paper, Samsung Best Paper Award in IEIE Autumn Annual Conference
 2024 Invited Talk, Recent Trends in 3D Content Creation (ETRI)

Korea