Hojun Song

EDUCATION

February 2024 B.S., School of Computer Science and Engineering
Kyungpook National University, Daegu

August 2025 M.S., School of Computer Science and Engineering
Kyungpook National University, Daegu

Present PhD student at School of Computer Science and Engineering
Kyungpook National University, Daegu

RESEARCH INTEREST

Ongoing

- 3D scene reconstruction, 3D gaussian splatting, 3D semantic segmentation

Previous

- 3D scene graph generation, knowledge distillation, pruning, image classification

RESEARCH EXPERIENCE: JOURNAL

- H. Song, C. Song, D. Lee, H. Choi, J. Jeong, S. Kim and S. Park, “Compression Framework for Light 3D Scene Graph Generation via Pruning-as-Search and Distillation,” *IEEE Transactions on Multimedia* (2026)
- J. Son, H. Song, C. Song, M. Ha, D. Kang and Y, Ha, “Condition-based Synthetic Dataset for Amodal Segmentation of Occluded Cucumbers in Agricultural Images,” *Computers and Electronics in Agriculture* 238, 110800.
- H. Baek, D. Lim, H. Song, G. Vani and S. Park, "Generated Image Classification Model for Deep Learning-based Inpainting Model." IEIE Transactions on Smart Processing & Computing 14.6 (2025): 764-775.
- E. Kim, D. Kang, D. Kim, H. Song, & S. Park "User-based Mask Generation Method using Object Tracking for Video Inpainting" JOURNAL OF BROADCAST ENGINEERING 30.1 pp.61-71 (2025) : 61.
- H. Song, C. Song, D. Lee and S. Park, “Automatic Classification of Disaster Images Based on Deep Learning,” *The Journal of Korean Institute of Communications and Information Sciences 48* (12), 1633-1636.

RESEARCH EXPERIENCE: CONFERENCE

- H. Song, S.Park, “Pruning-guided Point Cloud Enhancement via 3D Gaussian Splatting,” *The International Workshop on Advanced Image Technology (IWAIT), Kaohsiung, Taiwan, 2026.* (Best paper award)
- H. Song, C. Song, D. Lee and S. Park, “A Study of Structured and Unstructured Pruning on 3D Scene Graph Generation Model,” *15th International Conference on 3D Systems and Applications (3DSA), Jeju, Republic of Korea, 2024*.
- D. Lee, H. Song, C. Song, D. Kang, H. Yu, J. Hong and S. Park, “A Study on Light-weight 3D Scene Graph Generation Models Using Knowledge Distillation,” *15th International Conference on 3D Systems and Applications (3DSA), Jeju, Republic of Korea, 2024*. (Best paper award)
- E. Kim, D. Kang, H. Song, D. Kim, & S. Park (2024-06-25). Performance Evaluation of Inpainting for Restoring Generative Content. 한국방송미디어공학회 학술발표대회 논문집, 제주.
- C. Song, H. Song, D. Lim, J. Hong, & S. Park (2024-06-25). A Case Study on Applying Unstructured Pruning to 3D Scene Graph Model. 한국방송미디어공학회 학술발표대회 논문집, 제주.

- H. Choi, H. Song, D. Kang, C. Song, & S. Park (2024-06-25). A Study on 3D Object Classification Performance of Generated 3D Point Cloud. 한국방송미디어공학회 학술발표대회 논문집, 제주.

- H. Song, Y. Koo, S. Park, J. Cha, Y. Lee, C. Hur, & H. Park (2022-12-20). Deep learning-based Lightweight Model for Carbon-Reduction Activity Image Classification. 한국정보과학회 학술발표논문집, 제주.

ONGOING RESEARCH

- H. Song, C. Song, G. Kim, J. Hong, D. Kim, J. Jeong, S. Kim and S. Park, "G2P: Gaussian-to-Point Cross-Modal Learning for 3D Semantic Segmentation," AAAI 2026 Submitted.
- Optimized 3D Reconstruction Framework for Compressed Video Input (Adobe)

PATENT

- Device and method for pruning graph generation models (그래프 생성 모델을 프루닝하기 위한 장치 및 방법), PCT (2025), Patent application
- Apparatus and method for classifying image data based on deep learning (딥러닝 기반 이미지 데이터 분류 장치 및 방법), 2023, Patent application

AWARDS

- Best Paper Award of The International Workshop on Advanced Image Technology (IWAIT) 2026
- Excellence Award of 2025 KNU CSE Thesis
- The prize for encouraging 2024 KNU Thesis Contest
- The grand prize of 2023 KNU start-up competition
- The grand prize of 2023 AICOSS Artificial intelligence industry-academia project

LinkedIn: https://www.linkedin.com/in/hojun-song-253326254/
Scholar: https://scholar.google.co.kr/citations?user=Lq8vO8EAAAAJ&hl=ko
Email: hojunsong@knu.ac.kr