

Jinhyun Jang

JOINT M.S & PH.D CANDIDATE · YONSEI UNIVERSITY

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Summary

Research Interest Deep learning, Computer vision, Vision-language models, Object detection, Video understanding, Generative models
Current Focus Open-vocabulary object detection, Visual grounding

Education

Yonsei University

JOINT M.S & PH.D CANDIDATE, ELECTRICAL & ELECTRONIC ENGINEERING

- Supervisor: Prof. Kwanghoon Sohn.

Seoul, S.Korea

Mar. 2020 - Present

Yonsei University

B.S., ELECTRICAL & ELECTRONIC ENGINEERING

Seoul, S.Korea

Feb. 2020

Publication

“Improving Visual Recognition with Hyperbolic Visual Hierarchy Mapping”

HYEOUNGJUN KWON, **JINHYUN JANG**, JIN KIM, KWONYOUNG KIM AND KWANGHOON SOHN

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2024.

Jun. 2024

“Knowing Where to Focus: Event-aware Transformer for Video Grounding”

JINHYUN JANG, JUNGIN PARK, JIN KIM, HYEOUNGJUN KWON AND KWANGHOON SOHN

- IEEE/CVF International Conference on Computer Vision (ICCV), 2023.

Oct. 2023

“Probabilistic Prompt Learning for Dense Prediction”

HYEOUNGJUN KWON, TAEYONG SONG, SOMI JEONG, JIN KIM, **JINHYUN JANG**, AND KWANGHOON SOHN

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023.

Jun. 2023

“Semantic-Aware Network for Aerial-to-Ground Image Synthesis”

JINHYUN JANG, TAEYONG SONG AND KWANGHOON SOHN

- International Conference on Image Processing (ICIP), 2021.

Sep. 2021

Patent

“Video Grounding Apparatus and Method”

JINHYUN JANG AND KWANGHOON SOHN

- Korean patent,

Mar. 2024

“Cross-modal Retrieval Learning Apparatus and Method”

JINHYUN JANG AND KWANGHOON SOHN

- Korean patent, 10-2023-0047216

Apr. 2023

“Aerial-to-Ground Image Synthesis Apparatus and Method”

JINHYUN JANG AND KWANGHOON SOHN

- Korean patent, 10-2021-0166722

Dec. 2021

Research Project

Development of Complex Situational Awareness and Prediction Technology through Multi-modal Data Fusion and Social Artificial Intelligence

FUNDED BY MINISTRY OF SCIENCE, MID-LEVEL RESEARCH

- Developed an algorithm for video grounding

Seoul, S.Korea

Jan. 2024 - Present

Development of Object Detection and Tracking via Deep Learning

FUNDED BY LIG NEX1

- Developed an algorithm for object detection and tracking

Seoul, S.Korea

Apr. 2021 - Jun. 2022

Deep Identification and Tracking of Missing Person in Heterogeneous CCTV

FUNDED BY MINISTRY OF SCIENCE, NATIONAL RESEARCH FOUNDATION

- Developed an algorithm for pedestrian detection, tracking, re-identification

Seoul, S.Korea

Mar. 2020 - Feb. 2022

Honors & Awards

2020 **3rd Award**, DACON Deepfake Face Detection Challenge

Seoul, S.Korea

Experiences

Lab Manager

DIGITAL IMAGE MEDIA LAB

Seoul, S.Korea

Sep. 2023-Present

Teaching Assistants

DEPT. OF ELECTRICAL & ELECTRONIC ENGINEERING, YONSEI UNIVERSITY

- Internship: Text-to-Image Generation, Spring, 2022
- Internship: Generative Models, Winter, 2021
- Signals and Systems, Fall, 2021
- Introductory Digital Experiments, Fall, 2020

Seoul, S.Korea

Skills

Programming Python, Lua, C/C++, MATLAB

Deep learning Pytorch, Tensorflow

Languages Korean, English