

Gyeong-hyeon Kim

PH.D. STUDENT · CHUNG-ANG UNIVERSITY

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Research Interest

Machine learning, Deep learning, Computer vision, Video understanding
(Current Focus) Action segmentation, Action anticipation

Education

Chung-Ang University

Ph.D. in Computer Science and Engineering

- Advisor: Eunwoo Kim

Seoul, South Korea

Mar. 2023 - Present

Chung-Ang University

M.S. in Computer Science and Engineering

- Dissertation title: "Temporal Action Segmentation with Alleviating Local Context Fading"
- Advisor: Eunwoo Kim
- Overall GPA: 4.39/4.5

Seoul, South Korea

Mar. 2021 - Feb. 2023

Chung-Ang University

B.S. in Computer Science and Engineering

- Overall GPA: 3.81/4.5

Seoul, South Korea

Mar. 2014 - Feb. 2021

Publications

INTERNATIONAL JOURNAL

Growing a Brain with Sparsity-Inducing Generation for Continual Learning

Jul. 2023

Hyundong Jin, **Gyeong-hyeon Kim**, Chanho Ahn, and Eunwoo Kim

Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV 2023)

GhostNext: Rethinking Module Configurations for Efficient Model Design

Mar. 2023

Kiseong Hong, **Gyeong-hyeon Kim**, and Eunwoo Kim

Applied Sciences, vol. 13, no. 5

Stacked Encoder-Decoder Transformer with Boundary Smoothing for Action Segmentation

Dec. 2022

Gyeong-hyeon Kim, and Eunwoo Kim

Electronics Letters, vol. 58, no. 25, pp. 972-974

Projects

Time-Series Action Prediction and Segmentation

Funded by Hyundai Construction Equipment

Mar. 2023 - Dec. 2023

- This project aims to develop high-performing deep learning models to learn and segment time-series actions for various equipments.

Customized Neural Architecture Search and Proposal

Funded by Samsung SDS

Mar. 2021 - Oct. 2021

- This project aims to develop customized neural architecture search technology for visual tasks.
- Co-worked with Samsung SDS AI Vision Lab.

Pose Estimation for Bin-Picking with a 3D Model

Funded by Doosan Digital Innovation

Oct. 2020 - Dec. 2020

- This project develops exact 6D pose estimation and instance segmentation algorithms for a bin-picking problem of a robot.

Honors & Awards

DOMESTIC

- 2020 **3rd Place**, NIPA Artificial Intelligence Problem Solving Contest (Tile Fine Crack Detection)
- 2020 **3rd place**, Davinci Open Source SW-AI Deep Learning Hackathon

Experience

Samsung Junior Software Cup Mentor

College Student Mentor

Sep. 2020 - Nov. 2020

- Mentored elementary, middle, and high school students as a college student mentor with an employee mentor.
- Conducted mentoring and feedback for the software implementation of mentee ideas.

Patents

Apparatus and Method for Classifying Motion of Objects in Video

May. 2023

Eunwoo Kim, **Gyeong-Hyeon Kim**

- Korea patent (applied) No. 10-2023-0056528

Teaching Experience

TEACHING ASSISTANT

2022-Spring **Capstone Design (56120)**

2021-Spring **Algorithms (13601)**

Skills

Programming Python, C/C++, Java, OpenCV
Deep Learning PyTorch, TensorFlow
Languages Korean, English