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   *Seoul, South Korea*
PH.D. IN COMPUTER SCIENCE AND ENGINEERING   *Mar. 2023 - Present*
- *Advisor*: Eunwoo Kim

Chung-Ang University   *Seoul, South Korea*
M.S. IN COMPUTER SCIENCE AND ENGINEERING   *Mar. 2021 - Feb. 2023*
- *Dissertation title*: "Temporal Action Segmentation with Alleviating Local Context Fading"
- *Advisor*: Eunwoo Kim
- Overall GPA: 4.39/4.5

Chung-Ang University   *Seoul, South Korea*
B.S. IN COMPUTER SCIENCE AND ENGINEERING   *Mar. 2014 - Feb. 2021*
- Overall GPA: 3.81/4.5

Publications

INTERNATIONAL JOURNAL

GhostNeXt: Rethinking Module Configurations for Efficient Model Design
KISEONG HONG, **GYEONG-HYEON KIM**, AND EUNWOO KIM   *Mar. 2023*
Applied Sciences, vol. 13, no. 5

Stacked Encoder-Decoder Transformer with Boundary Smoothing for Action Segmentation
GYEONG-HYEON KIM, AND EUNWOO KIM   *Dec. 2022*
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

APRIL 2023   GYEONG-HYEON KIM · CURRICULUM VITAE   1

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.

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