Kyung-Min Jin

CONTACT INFORMATION

Korea University
Department of Artificial Intelligence
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RESEARCH INTERESTS

Designing a novel framework in computer vision domain: In particular, I conducted research on pose estimation architectures based on transformers combined with convolutional neural networks.

EDUCATION

Korea University Seoul, Korea

Department of Artificial Intelligence Sep. 2021 - present

- M.S. in Artificial Intelligence
- Thesis Topic: *Attention Merger for Pose Estimation in Video*
- Adviser: Professor Seong-Whan Lee
- Laboratory: PRML Laboratory
- Area of Study: Computer Vision
- GPA: 4.50 / 4.50 (100 / 100)

College of Informatics Mar. 2016 - Aug. 2021

- B.S. in Computer Science & Engineering
- B.S. in Artificial Intelligence
- Advisor: Professor Seong-Whan Lee
- GPA: 3.99 / 4.50 (94.2 / 100)
- GPA of Computer Science & Engineering: 4.02 / 4.50 (94.5 / 100)
- GPA of Artificial Intelligence 4.17 / 4.50 (96.2 / 100)

PUBLICATIONS

[1] **Kyung-Min Jin**, Byoung-Sung Lim, Gun-Hee Lee, Tae-Kyung Kang, and Seong-Whan Lee, "Kinematic-aware Hierarchical Attention Network for Human Pose Estimation in Videos," in *Proc. IEEE Winter Conf. Appl. Comput. Vis. **(WACV)***, 2023.

[2] Tae-Kyung Kang, Gun-Hee Lee, **Kyung-Min Jin**, and Seong-Whan Lee, "Action-aware Masking Network with Group-based Attention for Temporal Action Localization," in *Proc. IEEE Winter Conf. Appl. Comput. Vis. **(WACV)***, 2023.

[3] **Kyung-Min Jin**, Gun-Hee Lee, and Seong-Whan Lee, "OTPose: Occlusion-Aware Transformer for Pose Estimation in Sparsely-Labeled Videos," in *Proc. IEEE Int. Conf. Syst. Man Cybern. **(SMC)***, 2022. **(Oral)**

CONFERENCE TALKS

[1] **Kyung-Min Jin**, Byoung-Sung Lim, Gun-Hee Lee, Tae-Kyung Kang, and Seong-Whan Lee, "Kinematic-aware Hierarchical Attention Network for Human Pose Estimation in Videos," in *Proc. IEEE Winter Conf. Appl. Comput. Vis. **(WACV)***, January 3 - 7 2023, Waikoloa, Hawaii.

[2] **Kyung-Min Jin**, Gun-Hee Lee, and Seong-Whan Lee, "OTPose: Occlusion-Aware Transformer for Pose Estimation in Sparsely-Labeled Videos," in *Proc. IEEE Int. Conf. Syst. Man Cybern. **(SMC)***, October 9 - 12 2022, Prague, Czech Republic.

GRANTS AND HONORS

[1] 2022 LG Electronics R&D Scholarships Sep. 2022 - present

[2] Grand Prize in 2021 Miso Artificial Intelligence Model Development Challenge - Infant Behavior Video Data hosted by Ministry of Science and ICT Dec. 2021

[3] Encouragement Prize in Korea University 2020 smart campus dataton Jul. 2020

Research Experience

Voicecaddie Seoul, Korea

Golf swing pose, distance assistant device May. 2020 - Nov. 2020

- Golf pose estimation model, action localization, and annotation tool
- Pytorch, C++, and OpenCV

Industrial Experience

Deer Corporation Seoul, Korea

Electric kick board startup Jul. 2020 - Feb. 2021

- Frontend developer
- React, Typescript, Next.js, and React Native

Klue Seoul, Korea

Course evaluation service for Korea University Jul. 2019 - present

- Frontend developer
- React, Typescript, Redux, and MobX

Teaching Experience

Teaching Assistant Korea University

- Teaching Assistant for COSE213-02: Data Structure Autumn 2022

Certificate

Human Resources Development Service of Korea Seoul, Korea

- Engineer Information Processing Nov. 2021

Skills

Computer Programming

- Python, JavaScript, and C

Deep Learning Frameworks

- PyTorch, Tensorflow, and Keras

Languages

- Korean (mother tongue)
- English (OPIc - IM1 / TOEIC - 830)