Kyung-Min Jin

CONTACT INFORMATION

LG Electornics

GitHub: /KyungMinJin Cognitive Vision TP E-mail: km_jin@korea.ac.kr 19, Yangjae-daero 11-gil, Seocho-gu,

Homepage: https://kyungminjin.github.io Seoul, Republic of Korea

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 - Feb. 2023

• M.S. in Artificial Intelligence

• Thesis: Kinematic Continuity-aware Masked Hierarchical Attention for Pose Estimation in Videos

• Adviser: 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 GPA: 4.02 / 4.50 (94.5 / 100)

• B.S. in Artificial Intelligence GPA: 4.17 / 4.50 (96.2 / 100) • GPA: 3.99 / 4.50 (94.2 / 100)

PUBLICATIONS

- [1] Kyung-Min Jin, Gun-Hee Lee, Woo-Jeoung Nam, Tae-Kyung Kang, Hyun-Woo Kim, and Seong-Whan Lee, "Masked Kinematic Correlation with Hierarchical Attention for Pose Estimation," Under Review.
- [2] Tae-Kyung Kang, Gun-Hee Lee, Woo-Jeoung Nam, Hyun-Woo Kim, Kyung-Min Jin, and Seong-Whan Lee, "Calibrated Attention Masking Network for Temporal Action Localization," Under Review.
- [3] Hyun-Woo Kim, Gun-Hee Lee, Woo-Jeoung Nam, Kyung-Min Jin, Tae-Kyung Kang, Geon-Jun Yang, and Seong-Whan Lee, "MHCanonNet: "Multi-Hypothesis Canonical Lifting Network for Self-supervised 3D Human Pose Estimation in the wild Video," Under Review.
- [4] 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. (Oral)
- [5] 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. (Oral)
- [6] 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)

GRANTS AND HONORS	[1] Awarded LG Electronics R&D Scholarships	Sep. 2022
	[2] Awarded Grand Prize Miso AI Model Development Challenge 2021, Infant Behavior Video Data hosted by Ministry of Science and ICT Dec. 2021	
	[3] Encouragement Prize smart campus dataton 2020 in Korea	University Jul. 2020
RESEARCH EXPERIENCE	Voice caddie	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	LG Electronics	Seoul, Korea
	Artificial Intelligence, Computer vision field	Mar. 2023 - present
	Artificial intelligence researcher (pose estimation)Pytorch	
	Deer corporation	Seoul, Korea
	Electric kick board startup	Jul. 2020 - Feb. 2021
	Frontend developerReact, Typescript, Next.js, and React Native	
	Klue	Seoul, Korea
	Course evaluation service for Korea University	Jul. 2019 - present
	Frontend developerReact, Typescript, Redux, and MobX	
TEACHING EXPERIENCE	Teaching Assistant • Teaching Assistant for COSE213-02: Data Structure	Korea University Sep. 2022 - Dec. 2022
	• Inflearn: Online 2D Pose estimation course	Mar. 2023
CERTIFICATE	Human Resources Development Service of Korea • Engineer Information Processing	Seoul, Korea Nov. 2021
SKILLS	Computer Programming • Python, JavaScript, and C	
	Deep Learning FrameworksPyTorch, Tensorflow, and Keras	
	Languages	

Languages

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