Hyun-Woo Kim

PERSONAL INFORMATION

Nov.04.1995
37, Almata-gil, Dongjak-gu,
Seoul, Republic of Korea

GitHub: /khw11044
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RESEARCH INTERESTS

Designing a novel framework in computer vision domain:
I conducted research on 3D Human Pose Estimation architectures in self-supervised manner.

EDUCATION

Korea University Seoul, Korea

Department of Artificial Intelligence Mar. 2021 - Feb. 2023

- M.S. in Artificial Intelligence
- Thesis: MHCanonPose: Multi-Hypothesis Canonical 3D Human Pose Estimation in the Wild
- Adviser: Professor Seong-Whan Lee
- Laboratory: PRML Laboratory
- Area of Study: Computer Vision
- GPA: 4.13 / 4.50 (96.3 / 100)

Hansung University Seoul, Korea

College of IT Engineering Mar. 2015 - Feb. 2021

- B.S. in Division of IT Convergence Engineering
- Advisor: Professor Hee-seok Oh
- GPA: 3.57 / 4.50 (90.7 / 100)

PUBLICATIONS

[1] **Hyun-Woo Kim**, Gun-Hee Lee, Myeong-Seok Oh, and Seong-Whan Lee, "Cross-View Self-Fusion for Self-Supervised 3D Human Pose Estimation in the Wild," in *Proceedings of the Asian Conference on Computer Vision (**ACCV**)*, 2022. **(Oral)**

[2] **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," in *Pattern Recognition*, 2022. (Under Review)

GRANTS AND HONORS

[1] 2021 Miso Artificial Intelligence Model Development Challenge [PA]
Grand Prize (MSIT, NIPA, MiSo) Dec. 2021

[2] 2020 Open-Source Software Developer Competition [PM]
Sponsor Prize (MSIT, NIPA) Nov. 2020

[3] The 16th Hansung Engineering Competitive Exhibition [PM]
Silver Prize (Hansung Univ.) Sep. 2020

[4] The 16th Hansung Engineering Competitive Exhibition [PM]
Bronze Prize (Hansung Univ.) Sep. 2020

[5] The 1st Hansung University C&C Festival [PM]
Bronze Prize (Hansung Univ.) Jul. 2020

[6] The 15th Hansung Engineering Competitive Exhibition [PM]
Bronze, Sponsor Prize (Hansung Univ.) Sep. 2019

PATENTS

[1] **Hyun-Woo Kim**, Tae-Hyun Kim, and Jin-Myeong Je. Image-based anti-drone detection device and method using deep learning model. Korea Patent 10-2020-0080646, 2020.

RESEARCH EXPERIENCE

Development of AI based Golf Swing Analysis Algorithm for Golf Training

Korea University - VoiceCaddie — May. 2021 - Oct. 2021

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

Color Image based Visual Object Tracking Algorithm Implementation and Verification

Hansung University - ETRI — Jul. 2020 - Nov. 2020

- Visual Object Tracking algorithms comparison and performance verification
- Python, Pytorch

TEACHING EXPERIENCE

LikeLion — Online lecturer 2021

- Make a Git portfolio that the interviewers like

Inflearn — Online lecturer 2021

- Make a GitHub blog in a day

SKILLS

Computer Programming

- Python, JavaScript, Java and C++

Deep Learning Frameworks

- PyTorch, Tensorflow, and Keras

Languages

- Korean (Mother tongue)
- English (OPIc - IH)