Hyun-Woo Kim

PERSONAL INFORMATION

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

GitHub: github.com/khw11044
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EDUCATION

Korea University
Seoul, Korea

Department of Artificial Intelligence
Mar. 2021 - Feb. 2023

- M.S. in Artificial Intelligence
- 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*, 2023.

[3] Geon-Jun Yang, Jun-Hee Kim, **Hyun-Woo Kim**, Gun-Hee Lee and Seong-Whan Lee, "EGPose: Explicit and Geometric Self-Supervision for 3D Human Pose Estimation," in *Proceedings of the International Joint Conference on Neural Networks, IEEE (**IJCNN**)*, 2023.

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

[5] 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," 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   • 3D Human Pose Estimation
INTERESTS   • Reconstruction of 3D avatars
               • Reconstruction of animation-ready 3D clothed humans
               • Virtual try on
               • GAN
               • 3D Vision

RESEARCH   **Development of AI based Golf Swing Analysis Algorithm for Golf Training**
EXPERIENCE
               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   **LikeLion**   Online lecturer
EXPERIENCE   • Make a Git portfolio that the interviewers like   2021

               Inflearn   Online lecturer
               • Make a GitHub blog in a day   2021

               Inflearn   Online lecturer
               • 3D Human Pose Estimation and Practical Project   2023

SKILLS   **Computer Programming**
               • Python, JavaScript, Java and C++

               Deep Learning Frameworks
               • PyTorch, Tensorflow, and Keras

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