Hanbyel Cho

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Work Experience

Meta Reality Labs, XR Input Perception
 Research Scientist Intern (Manager: Cem Keskin)

 Meta Reality Labs, Codec Avatars Lab Research Scientist Intern (Manager: Wei Pu) Redmond, WA, USA June 2024 - Dec. 2024

Pittsburgh, PA, USA Dec. 2023 - Feb. 2024

Publications

- Efficient Dynamic Scene Editing via 4D Gaussian-based Static-Dynamic Separation Joohyun Kwon*, Hanbyel Cho*, Junmo Kim (*Equal contribution)
 Under Review, 2025
- Foreseeing Reconstruction Quality of Gradient Inversion: An Optimization Perspective Hyeong Gwon Hong, Yooshin Cho, Hanbyel Cho, Jaesung Ahn, Junmo Kim The 38th Annual AAAI Conference on Artificial Intelligence (AAAI), 2024
- Generative Approach for Probabilistic Human Mesh Recovery using Diffusion Models
 Hanbyel Cho, Junmo Kim
 IEEE/CVF International Conference on Computer Vision (ICCV), 2023, CV4Metaverse Workshop
- Implicit 3D Human Mesh Recovery using Consistency with Pose and Shape from Unseen-view Hanbyel Cho, Yooshin Cho, Jaesung Ahn, Junmo Kim IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023
- Video Inference for Human Mesh Recovery with Vision Transformer
 Hanbyel Cho, Jaesung Ahn, Yooshin Cho, Junmo Kim
 IEEE International Conference on Automatic Face and Gesture Recognition (IEEE FG), 2023
- Localization using Multi-Focal Spatial Attention for Masked Face Recognition Yooshin Cho, Hanbyel Cho, Hyeong Gwon Hong, Jaesung Ahn, Dongmin Cho, Junmo Kim IEEE International Conference on Automatic Face and Gesture Recognition (IEEE FG), 2023
- Rethinking Efficacy of Softmax for Lightweight Non-Local Neural Networks
 Yooshin Cho, Youngsoo Kim, Hanbyel Cho, Jaesung Ahn, Hyeong Gwon Hong, Junmo Kim
 IEEE International Conference in Image Processing (ICIP), 2022
- Camera Distortion-aware 3D Human Pose Estimation in Video with Optimization-based Meta-Learning Hanbyel Cho, Yooshin Cho, Jaemyung Yu, Junmo Kim IEEE/CVF International Conference on Computer Vision (ICCV), 2021
- Improving Generalization of Batch Whitening by Convolutional Unit Optimization Yooshin Cho, Hanbyel Cho, Youngsoo Kim, Junmo Kim IEEE/CVF International Conference on Computer Vision (ICCV), 2021

Education

- Korea Advanced Institute of Science and Technology (KAIST)
 PhD in Electrical Engineering (Advisor: Prof. Junmo Kim)
 Dissertation: High-Fidelity Human Body Model Reconstruction in Unconstrained Situations
- Korea Advanced Institute of Science and Technology (KAIST)
 MS in Electrical Engineering (Advisor: Prof. Junmo Kim)
 Daejeon, Korea
 Mar. 2018 Feb. 2020
 Thesis: Improving Performance of Face Super-Resolution with Stochastic Attributes Modeling
- Korea Advanced Institute of Science and Technology (KAIST)
 BS in Electrical Engineering
 Daejeon, Korea
 Mar. 2013 Feb. 2018

Skills

- Computer Vision: Foundation Models, Vision Language Models, Diffusion Models, ConvNets, Transformers, Mamba, Image Classification, Object Detection, Image Segmentation, 3D Object Recognition, 3D Human Pose Estimation, Egocentric Vision, Self-supervised Learning, Camera Models.
- Programming: PyTorch, TensorFlow, Python, Numpy, MATLAB, C, LaTeX

Academic Service

Conference Reviewer: CVPR, ICCV, ECCV, NeurIPS, ACCV

Journal Reviewer: TIP, JVCI

Awards & Scholarships

and Shape from Unseen-view (CVPR, 2023)

Finalist, Qualcomm Innovation Fellowship Korea
 Hosted by Qualcomm Korea, Inc.

 Recognized for the first-authored paper titled: Implicit 3D Human Mesh Recovery using Consistency with Pose

• Excellent Presentation Award, CARAI Academic Workshop

Oct. 2023

Hosted by Center for Applied Research in Artificial Intelligence (CARAI)

Finalist, Qualcomm Innovation Fellowship Korea
 Hosted by Qualcomm Korea, Inc.

 Recognized for the first-authored paper titled: Camera Distortion-aware 3D Human Pose Estimation in Video with Optimization-based Meta-Learning (ICCV, 2021)

Governmental Scholarship for KAIST Graduate Students
 2018 - 2024

• Governmental Scholarship for KAIST Undergraduate Students 2013 - 2017

References

o Intern Manager: Cem Keskin, Principal Scientist, Meta

o Intern Manager: Wei Pu, Engineering Manager, Meta

MS/PhD Advisor: Junmo Kim, Professor, School of Electrical Engineering, KAIST