Buzhen Huang

Ph.D. Student, Southeast University

buzhenhuang@outlook.com · www.buzhenhuang.com

Research Interests

Fields: Computer Vision, Computer Graphics
Topics: Human Mesh Recovery, Motion Capture

Education

Southeast University	Sep 2019 - present
Ph.D. in Control Science and Engineering	Advisor: Prof. Yangang Wang
University of Pennsylvania	Feb 2018 - Mar 2018
Visiting Student	
Hangzhou Dianzi University	Sep 2015 - Jun 2019
B.E. in Automation, **rank**: 3/152	Advisor: Prof. Chenggang Yan and Prof. Yue Gao

Publications

[1] Reconstructing Groups of People with Hypergraph Relational Reasoning
Buzhen Huang, Jingyi Ju, Zhihao Li and Yangang Wang
IEEE International Conference on Computer Vision (ICCV), 2023

[2] Physics-Guided Human Motion Capture with Pose Probability Modeling
Jingyi Ju*, **Buzhen Huang***, Chen Zhu, Zhihao Li and Yangang Wang (*equal contribution)
International Joint Conferences on Artificial Intelligence (IJCAI), 2023

[3] Object-Occluded Human Shape and Pose Estimation with Probabilistic Latent Consistency
Buzhen Huang*, Tianshu Zhang* and Yangang Wang (*equal contribution)
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2022

[4] Pose2UV: Single-shot Multi-person Mesh Recovery with Deep UV Prior
Buzhen Huang*, Tianshu Zhang* and Yangang Wang (*equal contribution)
IEEE Transactions on Image Processing (TIP), 2022

[5] Neural MoCon: Neural Motion Control for Physically Plausible Human Motion Capture
Buzhen Huang, Liang Pan, Yuan Yang, Jingyi Ju and Yangang Wang
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022

[6] Dynamic Multi-Person Mesh Recovery from Uncalibrated Multi-View Cameras
Buzhen Huang, Yuan Shu, Tianshu Zhang and Yangang Wang
International Conference on 3D Vision (3DV), 2021

[7] Object-Occluded Human Shape and Pose Estimation from a Single Color Image
Tianshu Zhang*, **Buzhen Huang***, Yangang Wang (*equal contribution)
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020 (Oral Presentation)

[8] A Flower Classification Framework Based on Ensemble of CNNs
Buzhen Huang, Youpeng Hu, Yaoqi Sun, Xinhong Hao, Chenggang Yan
Pacific-Rim Conference on Multimedia (PCM), 2018

Awards & Honors

First Place Winner in 2022 GigaCrowd Challenge	2022
National Scholarship	2022
SEU Doctoral Entrance Scholarship	2022
Style3D Graduate Fellowship (1 of 10 in China)	2022
Excellent Graduate of Zhejiang Province	2019
National Scholarship	2017
First Prize in Provincial Undergraduate Electronic Design Contest	2017

Professional Service

Session Chair: IJCAI
Conference Reviewer: NeurIPS, CVPR, ICCV, ECCV, IJCAI, ACM MM, CICAI
Journal Reviewer: TMM, Computers & Graphics

Academic Talks

Invited Speaker at Huawei, Noah's Ark Lab	2022

Teaching Assistant

Digital Image Processing System, Southeast University	Fall 2020
	Instructor: Yangang Wang
Introduction to Artificial Intelligence, Southeast University	Fall 2019
	Instructor: Yangang Wang