Jianhao Zeng

jh_zeng@tju.edu.cn | zengjianhao.github.io | Google Scholar

Education

Tianjin University Tianjin, China
M.Eng. in Electronic and Information Engineering 2021/09 – 2024/06
Advisor: Prof. Dan Song

Tianjin University Tianjin, China
B.Eng. in Mechanical Design & Manufacturing and Their Automation 2017/09 – 2021/06

Publications

1. **Eevee: Towards Close-up High-resolution Video-based Virtual Try-on**
   Jianhao Zeng*, Yancheng Bai*, Ruidong Chen, Zhang Xuanpu, Lei Sun, Dongyang Jin, Ryan Xu, Nannan Zhang#, Dan Song, Xiangxiang Chu
   Under Review

2. **Semantic Context Matters: Improving Conditioning for Autoregressive Models**
   Dongyang Jin*, Ryan Xu*#, Jianhao Zeng, Rui Lan, Yancheng Bai, Lei Sun, Xiangxiang Chu
   Under Review

3. **Group Relative Attention Guidance for Image Editing**
   Xuanpu Zhang*, Xuesong Niu*, Ruidong Chen, Dan Song, Jianhao Zeng, Penghui Du, Haoxiang Cao, Kai Wu#, Anan Liu#
   Under Review

4. **MEF-GD: Multimodal Enhancement and Fusion Network for Garment Designer**
   Dan Song, Juan Zhou, Jianhao Zeng, Hongshuo Tian, Bolun Zhen, Rongbao Kang, Anan Liu#
   IEEE Transactions on Circuits and Systems for Video Technology, 2025 ***(TCSVT)***

5. **Robust-MVTON: Learning Cross-Pose Feature Alignment and Fusion for Robust Multi-View Virtual Try-On**
   Nannan Zhang*, Yijiang Li*, Dong Du#, Zheng Chong, Zhengwentai Sun, Jianhao Zeng, Yusheng Dai, Zhenyu Xie, Hairui Zhu, Xiaoguang Han#
   IEEE/CVF Conference on Computer Vision and Pattern Recognition ***(CVPR 2025)***

6. **BooW-VTON: Boosting In-the-Wild Virtual Try-On via Mask-Free Pseudo Data Training**
   Xuanpu Zhang, Dan Song#, Pengxin Zhan, Tianyu Chang, Jianhao Zeng, Qingguo Chen, Weihua Luo, Anan Liu#
   IEEE/CVF Conference on Computer Vision and Pattern Recognition ***(CVPR 2025)***

7. **Better Fit: Accommodate Variations in Clothing Types for Virtual Try-on**
   Dan Song, Xuanpu Zhang, Jianhao Zeng, Pengxin Zhan, Qingguo Chen, Weihua Luo, Anan Liu#
   IEEE Transactions on Circuits and Systems for Video Technology, 2024 ***(TCSVT)***

8. **CAT-DM: Controllable Accelerated Virtual Try-on with Diffusion Model**
   Jianhao Zeng, Dan Song#, Weizhi Nie, Hongshuo Tian, Tongtong Wang, Anan Liu#
   IEEE/CVF Conference on Computer Vision and Pattern Recognition ***(CVPR 2024)***

9. **Fashion Customization: Image Generation Based on Editing Clue**
Dan Song, **Jianhao Zeng**, Min Liu, Xuanya Li, Anan Liu#
IEEE Transactions on Circuits and Systems for Video Technology, 2023 ***(TCSVT)***

Experiences

Machine Learning Department, AMAP, Alibaba Group Beijing, China
Algorithm Engineer 2025/06 – Current
Mentor: Dr. Lei Sun, Dr. Yancheng Bai and Mr. Xiangxiang Chu

Laboratory for MAchine Perception and LEarning (MAPLE), Westlake University Hangzhou, China
Research Assistant 2024/06 – 2025/01
Advisor: Dr. Liyuan Ma, Dr. Zhiyang Chen and Prof. Guojun Qi (Fellow of IEEE, IAPR and AAIA)

Institute of Television and Image Information, Tianjin University Tianjin, China
Graduate Student 2021/09 – 2024/06
Advisor: Prof. Dan Song and Prof. Anan Liu (Distinguished Young Scholars)

Competitions

- **Top 6.9%** in Jiangsu Meteorological AI Algorithm Challenge 2022/06
- **First Prize** in Tianjin University Undergraduate Physicists Tournament (TJUPT) 2019/08
- **Second Prize** in National College Students Mathematical Competition 2018/10
- **Third Prize** in Tianjin College Student Mathematics Competition 2018/05

Awards

- CVPR Registration and Travel Support 2024
- Excellent Master's Degree Thesis of Tianjin University (**Top 5%**) 2024
- Tianjin University Academic Scholarship 2021, 2022, 2023

Others

- **Reviewer**: ACM MM (2024), ICLR (2025, 2026), NIPS (2025), CVPR (2026), TCSVT
- **Teaching Assistant**: Digital Logic Circuit, Tianjin University
- **Translation**: Physically Based Rendering: From Theory To Implementation, fourth edition
- **Patent**: A Fashion Image Editing Method and Device Based on Self-Attention Mechanism (CN115082295B)

Skills

- **Programming Languages** C, C++, Python, HTML, CSS, JavaScript
- **Frameworks** PyTorch, PyTorch Lightning, Accelerate
- **Tools** Linux, Git, LaTeX, Typst
- **Human Languages** Mandarin, English (TOEFL iBT: 94)