



Yangyang Xu

CONTACT INFORMATION

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RESEARCH INTEREST

Computer Vision, Generative Models, Image Editing and Transfer Learning

EXPERIENCE& EDUCATION

<i>PostDoc</i>	2021.12 - Present
The University of Hong Kong, Department of Computer Science	
Supervisor: Prof. Ping Luo	
<i>Intern</i>	2021.09 - 2021.11
Tencent, Interactive Entertainment Group, Turing Lab	
Mentor: Dr. Junle Wang	
<i>Ph.D.</i>	2018.07 - 2021.08
South China University of Technology, China	
Supervisor: Prof. Shengfeng He and Prof. Xuemiao Xu	

PUBLICATION

Summary: CVPR & ICCV (2), IEEE & ACM Transactions (7)

* Corresponding author

+ Equal Contribution

- High-resolution Face Swapping via Latent Semantics Disentanglement**
*Yangyang Xu, Bailin Deng, Junle Wang, Yanqing Jing, Jia Pan and Shengfeng He**
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2022.
- From Continuity to Editability: Inverting GANs with Consecutive Images**
Yangyang Xu, Yong Du, Wenpeng Xiao, Xuemiao Xu and Shengfeng He**
IEEE/CVF International Conference on Computer Vision (ICCV), 2021.
- Multi-view Face Synthesis via Progressive Face Flow**
Yangyang Xu, Xuemiao Xu, Jianbo Jiao, Keke Li, Cheng Xu and Shengfeng He**
IEEE Transactions on Image Processing (TIP), 2021.
DOI: 10.1109/TIP.2021.3090658
- Pro-PULSE: Learning Progressive Encoders of Latent Semantics in GANs for Photo Upsampling**
*Yang Zhou⁺, Yangyang Xu⁺, Yong Du, Qiang Wen and Shengfeng He**
IEEE Transactions on Image Processing (TIP), 2022.
DOI: 10.1109/TIP.2022.3140603

5. **Transductive Zero-shot Action Recognition via Visually-connected Graph Convolutional Networks**
Yangyang Xu, Chu Han, Jing Qin, Xuemiao Xu, Guoqiang Han, and Shengfeng He**
 IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 2020.
 DOI: 10.1109/TNNLS.2020.3015848
6. **Holistically-Associated Transductive Zero-Shot Learning**
Yangyang Xu, Xuemiao Xu, Guoqiang Han, and Shengfeng He**
 IEEE Transactions on Cognitive and Developmental Systems (TCDS), 2021.
 DOI: 10.1109/TCDS.2021.3049274
7. **Invertible Grayscale with Sparsity Enforcing Priors**
*Yong Du, Yangyang Xu, Taizhong Ye, Qiang Wen, Chufeng Xiao, Junyu Dong, Guoqiang Han, Shengfeng He**
 ACM Transactions on Multimedia Computing Communications and Applications (TOMM), 2021.
 DOI: 10.1145/3451993
8. **Background Matting via Recursive Excitation**
*Junjie Deng⁺, Yangyang Xu⁺, Zeyang Zhou and Shengfeng He**
 IEEE International Conference on Multimedia and Expo (ICME), 2022.
9. **Unsupervised Domain Adaptation via Importance Sampling**
*Xuemiao Xu, Hai He, Huaidong Zhang, Yangyang Xu, and Shengfeng He**
 IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), 2019.
 DOI: 10.1109/TCSVT.2019.2963318
10. **Deep Texture-Aware Features for Camouflaged Object Detection**
Jingjing Ren, Xiaowei Hu, Lei Zhu, Xuemiao Xu, Yangyang Xu, Weiming Wang, Zijun Deng and Pheng-Ann Heng*
 IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), 2021.
 DOI: 10.1109/TCSVT.2021.3126591
11. **Ensemble One-Dimensional Convolution Neural Networks for Skeleton-Based Action Recognition**
Yangyang Xu, Jun Cheng, Lei Wang, Feng Liu and Dapeng Tao*
 IEEE Signal Processing Letters (SPL), 2018.
 DOI: 10.1109/LSP.2018.2841649
12. **Human Action Recognition by Learning Spatio-Temporal Features With Deep Neural Networks**
Lei Wang, Yangyang Xu, Jun Cheng, Jianqin Yin and Jiaji Wu*
 IEEE Access, 2018.
 DOI: 10.1109/ACCESS.2018.2817253
13. **DTA: Double LSTM with temporal-wise attention network for action recognition**
Yangyang Xu, Lei Wang, Jun Cheng and Jiaji Wu*
 IEEE International Conference on Computer and Communications. 2017.
 DOI: 10.1109/CompComm.2017.8322825

PRE-PRINT

1. **Self-supervised Matting-specific Portrait Enhancement and Generation**
*Yangyang Xu, Zeyang Zhou, Shengfeng He**
Submitted to IEEE Transactions on Image Processing (TIP), Major revision
2. **Parsing-Conditioned Anime Translation: A New Dataset and Method**
*Zhansheng Li⁺, Yangyang Xu⁺, Nanxuan Zhao, Yang Zhou, Yongtuo Liu, Dahua Lin and Shengfeng He**
Submitted to ACM Transactions on Graphics (TOG), Major revision
3. **RIGID: Recurrent GAN Inversion and Editing of Real Face Videos**
Yangyang Xu, Shengfeng He, Kwan-Yee K. Wong, Ping Luo
Submitted to Thirty-sixth Conference on Neural Information Processing Systems (NeurIPS), 2022
4. **Open-set Mixed Domain Adaptation via Visual-Linguistic Focal Evolving**
Bangzhen Liu, Yangyang Xu, Xuemiao Xu, Shengfeng He
Submitted to Thirty-sixth Conference on Neural Information Processing Systems (NeurIPS), 2022
5. **HoliStyle: Discovering Holistic Interpretable Direction for Multi-Attribute Face Editing**
Ruihua Zeng⁺, Yangyang Xu⁺, Xuemiao Xu, Ping Luo and Shengfeng He**
Submitted to ACM MultiMedia (MM), 2022
6. **Class-aware Global Feature Alignment for Adaptive Object Detection**
Shan Xu, Huaidong Zhang, Xuemiao Xu, Xiaowei Hu, Yangyang Xu, Liangui Dai, Pheng-Ann Heng, Kup-Sze Choi
Submitted to IEEE Transactions on MultiMedia (TMM)

ACTIVITIES

1. **Reviewer:**
SIGGRAPH 2022, SIGGRAPH Asia 2022, NeurIPS 2022, ICML 2022, CVPR 2022, ICCV 2021, CVPR 2021, AAAI 2021, ECCV 2020, CVPR 2020, P&G 2020.
IEEE TIP, IEEE TNNLS, Pattern Recognition, Neural Computing, IEEE SPL.
2. **Seminar report:**
“Graph Convolutional Neural Networks for Zero-shot Action Recognition”, City University of Hong Kong, Hong Kong. 2018.12
3. **Volunteer:**
Chinagraph 2018

PROGRAM SKILLS

Proficiency with Python, Matlab, C/C++.