

# Yangyang Xu

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## CONTACT INFORMATION

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## RESEARCH INTEREST

Computer Vision, Generative Models, Image Editing and Transfer Learning

## PUBLICATION

\* Corresponding author

+ Equal Contribution

1. 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.
2. 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
3. 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
4. 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
5. Pro-PULSE: Learning Progressive Encoders of Latent Semantics in GANs for Photo Upsampling  
Yang Zhou<sup>+</sup>, **Yangyang Xu**<sup>+</sup>, Yong Du, Qiang Wen and Shengfeng He\*  
IEEE Transactions on Image Processing (**TIP**), 2022.
6. 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
7. 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
8. 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
  9. 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
  10. 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
  11. 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. High-resolution Face Swapping via Latent Semantics Disentanglement  
*Yangyang Xu, Bailin Deng, Junle Wang, Yanqing Jing, Jia Pan and Shengfeng He\**  
*Submitted to IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2022*
2. Self-supervised Matting-specific Portrait Enhancement and Generation  
*Yangyang Xu, Zeyang Zhou, Shengfeng He\**  
*Submitted to IEEE Transactions on Image Processing (TIP)*
3. Parsing-Conditioned Anime Translation: A New Dataset and Method  
*Zhansheng Li<sup>+</sup>, Yangyang Xu<sup>+</sup>, Nanxuan Zhao, Yang Zhou, Yongtuo Liu, Dahua Lin and Shengfeng He\**  
*Submitted to ACM Transactions on Graphics (TOG)*
4. 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)*
5. Background Matting via Recursive Excitation  
*Junjie Deng<sup>+</sup>, Yangyang Xu<sup>+</sup>, Zeyang Zhou and Shengfeng He\**  
*Submitted to IEEE International Conference on Multimedia and Expo (ICME), 2022*

## ACTIVITIES

### 1. Reviewer:

**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++.