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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. 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
6. 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
7. 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
8. 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
 9. 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
 10. 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. Pro-PULSE: Learning Progressive Encoders of Latent Semantics in GANs for Photo Upsampling
Yang Zhou⁺, **Yangyang Xu**⁺, Yong Du, Qiang Wen and Shengfeng He*
Submitted to IEEE Transactions on Image Processing (TIP) Minor revision
4. 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)
5. 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)
6. Background Matting via Recursive Excitation
Junjie Deng⁺, **Yangyang Xu**⁺, 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++.