Yangyang Xu

CONTACT INFORMATION	Post Doc. of Department of Computer Science, The University of Hong Kong. Ph.D. of School of Computer Science and Engineering, South China University of Technology.

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RESEARCH INTEREST

Computer Vision, Generative Models, Image Editing and Transfer Learning

EXPERIENCE

PostDoc.   2021.12 - Present
The University of Hong Kong, Department of Computer Science
Supervisor: Prof. Ping Luo

Intern   2021.09 - 2021.11
Tencent, Interactive Entertainment Group, Turing Lab
Mentor: Dr. Junle Wang

PUBLICATION

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

[*] Corresponding author
[+] Equal Contribution

1. **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.

2. **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.

3. **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

4. **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++.