Yangyang Xu

CONTACT INFORMATION

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RESEARCH INTEREST

Computer Vision, Image Editing, Generative Models and Transfer Learning

EDUCATION

Ph.D. candidate 2018.07 - PRESENT
South China University of Technology, China
Supervisor: Prof. Shengfeng He and Prof. Xuemiao Xu

M.S. 2015.09 - 2018.06
Guangxi Normal University, China

RA 2017.02 - 2018.06
Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China
Supervisor: Prof. Jun Cheng and Prof. Lei Wang

B.S. 2011.09 - 2015.06
Yantai University, China

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 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. 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

8. 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

9. 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 Pattern Recognition and Machine Intelligence (**TPAMI**)

2. 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**) *Major revision*

3. 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*
   Submitted to IEEE Transactions on Circuits and Systems for Video Technology (**TCSVT**)

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. 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**)

ACTIVITIES

1. **Reviewer**:

   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++.