Yangyang Xu

CONTACT INFORMATION

Third-year Ph.D. student (Excepted Graduation in September 2021)
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RESEARCH INTEREST

Computer Vision, Image Processing, Machine Learning, Deep 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

1. 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. Accept. (Early Access)
2. 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
3. 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
4. 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. Accept. (Early Access)

5. 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

6. 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

7. 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

8. 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. From Continuity to Editability: Inverting GANs with Consecutive Images
Yangyang Xu*, Yong Du, Wenpeng Xiao, Xuemiao Xu** *and Shengfeng He**
Submitted to IEEE International Conference on Computer Vision (**ICCV 2021**)

2. 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**)

3. Pro-PULSE: Learning Progressive Encoders of Latent Semantics in GANs for Photo Upsampling
Shengfeng He, Yang Zhou, Yong Du, Qiang Wen, Xuemiao Xu and ***Yangyang Xu****
Submitted to IEEE Transactions on Image Processing (**TIP**)

4. 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 MultiMedia (**TMM**)

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 Circuits and Systems for Video Technology ((**TCSVT**)

ACTIVITIES

1. **Reviewer**: IEEE **TNNLS**, Neural Computing, **P&G** 2020, **CVPR** 2020, **ECCV** 2020, **AAAI** 2021, **CVPR** 2021, **ICCV** 2021.

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++.