

Yibing Song

Applicant for an area chair of CVPR 2022

Biography

Email: yibingsong.cv@gmail.com

Homepage: <https://ybsong00.github.io>

Scholar: <https://scholar.google.com/citations?pli=1&user=oRhJHmIAAAAJ>

Education Background

Doctor of Philosophy	Aug 2014 - Apr 2018
Computer Science, City University of Hong Kong	Supervisor: Prof. Qingxiong Yang
CityU is ranked Top 50 in QS World University Ranking 2020.	
Master of Philosophy	Sep 2012 - Aug 2014
Computer Science, City University of Hong Kong	Supervisor: Prof. Qingxiong Yang
Bachelor of Engineering	Sep 2007 - July 2011
Electrical and Information Engineering, University of Science and Technology of China	

Work Experience

Senior Research Scientist	Apr 2018 - present
Tencent AI Lab, Shenzhen, China	Director: Dr. Jue Wang
Visiting Student	Apr 2016 - March 2017
University of California at Merced	Supervisor: Prof. Ming-Hsuan Yang
Research Intern	July 2015 - Nov 2015
Adobe Research, San Jose, U.S	Supervisor: Dr. Zhe Lin

Research Expertise

Motion and tracking, self-supervised visual representation learning, image and video synthesis

Academic Service and Awards

Winner of 2021 ActivityNet Kinectics-700 Self-supervised Challenge

Senior Program Committee: IJCAI 2021

Outstanding Reviewer Award: CVPR 2018, CVPR 2019, CVPR 2020

Top reviewer Award: NeurIPS 2019

Regular reviewer: CVPR, ICCV, ECCV, PAMI, IJCV, NeurIPS, ICML, and ICLR

Publication List

✉ indicates I am the corresponding author. ¹ indicates co-first author.

Conference papers:(12 CVPR, 1 ICCV, 5 ECCV, 1 NeurIPS, 1 ICLR, 2 IJCAI)

1. Tian Pan¹, **Yibing Song**¹, Tianyu Yang, Wenhao Jiang, and Wei Liu,
VideoMoCo: Contrastive Video Representation Learning with Temporally Adversarial Examples,
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) 2021
2. Chongjian Ge, **Yibing Song**✉, Yuying Ge, Han Yang, Wei Liu, and Ping Luo,
Disentangled Cycle Consistency for Highly-realistic Virtual Try-On,
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) 2021
3. Hongyu Liu, Ziyu Wan, Wei Huang, **Yibing Song**✉, Xintong Han, Jing Liao, Bin Jiang, and Wei Liu,
DeFLOCNet: Deep Image Editing via Flexible Low-level Controls,
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) 2021
4. Yuying Ge, **Yibing Song**✉, Ruimao Zhang, Chongjian Ge, Wei Liu, and Ping Luo,
Parser-Free Virtual Try-on via Distilling Appearance Flows,
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) 2021
5. Hongyu Liu, Ziyu Wan, Wei Huang, **Yibing Song**, Xintong Han, and Jing Liao,
PD-GAN: Probabilistic Diverse GAN for Image Inpainting,
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) 2021
6. Shuai Jia, **Yibing Song**, Chao Ma, and Xiaokang Yang,
IoU Attack: Towards Temporally Coherent Black-Box Adversarial Attack for Visual Object Tracking,
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) 2021
7. Jie An, Siyu Huang, **Yibing Song**, Dejing Dou, Wei Liu, and Jiebo Luo,
ArtFlow: Unbiased Image Style Transfer via Reversible Neural Flows,
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) 2021
8. Gege Qi, Lijun Gong, **Yibing Song**✉, Kai Ma, and Yefeng Zheng,
Stabilized Medical Image Attacks,
International Conference on Learning Representations (**ICLR**) 2021 (Spotlight)
9. Hongyu Liu, Bin Jiang, **Yibing Song**✉, Wei Huang, and Chao Yang,
Rethinking Image Inpainting via a Mutual Encoder-Decoder with Feature Equalizations,
European Conference on Computer Vision (**ECCV**) 2020 (Oral)

10. Shuai Jia, Chao Ma, **Yibing Song**, and Xiaokang Yang,
Robust Tracking against Adversarial Attacks,
European Conference on Computer Vision (**ECCV**) 2020
11. Yinglong Wang, **Yibing Song**✉, Chao Ma, and Bing Zeng,
Rethinking Image Deraining via Rain Streaks and Vapors,
European Conference on Computer Vision (**ECCV**) 2020
12. Ning Wang, **Yibing Song**✉, Chao Ma, Wengang Zhou, Wei Liu, and Houqiang Li,
Unsupervised Deep Tracking,
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) 2019
13. Fanzi Wu, Linchao Bao, Yajing Chen, Yonggen Ling, **Yibing Song**, Songnan Li, King Ngan, and Wei Liu,
MVF-Net: Multi-View 3D Face Morphable Model Regression,
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) 2019
14. Shi Pu, **Yibing Song**, Chao Ma, Honggang Zhang, and Ming-Hsuan Yang,
Deep Attentive Tracking via Reciprocal Learning,
Neural Information Processing Systems (**NeurIPS**) 2018
15. Jianbo Jiao, Ying Cao, **Yibing Song**, and Rynson Lau
Look Deeper into Depth: Monocular Depth Estimation with Semantic Booster and Attention-Driven Loss,
European Conference on Computer Vision (**ECCV**) 2018
16. Jiawei Zhang, Jinshan Pan, Jimmy Ren, **Yibing Song**, Linchao Bao, Rynson Lau, and Ming-Hsuan Yang,
Dynamic Scene Deblurring using Spatially Variant Recurrent Neural Networks,
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) 2018 (Spotlight)
17. Xin Yang, Ke Xu, **Yibing Song**✉, Qiang Zhang, Xiaopeng Wei, and Rynson Lau
Image Correction via Deep Reciprocating HDR Transformation,
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) 2018
18. **Yibing Song**, Chao Ma, Xiaohe Wu, Lijun Gong, Linchao Bao, Chunhua Shen, Rynson Lau, and Ming-Hsuan Yang,
VITAL: Visual Tracking via Adversarial Learning,
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) 2018 (Spotlight)
19. **Yibing Song**, Chao Ma, Lijun Gong, Jiawei Zhang, Rynson Lau, and Ming-Hsuan Yang,
CREST: Convolutional Residual Learning for Visual Tracking,
IEEE International Conference on Computer Vision (**ICCV**) 2017

20. **Yibing Song**, Jiawei Zhang, Linchao Bao, and Qingxiong Yang,
Fast Preprocessing for Robust Face Sketch Synthesis,
International Joint Conference on Artificial Intelligence (**IJCAI**) 2017
21. **Yibing Song**, Jiawei Zhang, Shengfeng He, Linchao Bao, and Qingxiong Yang,
Learning to Hallucinate Face Images via Component Generation and Enhancement,
International Joint Conference on Artificial Intelligence (**IJCAI**) 2017
22. **Yibing Song**, Linchao Bao, Qingxiong Yang, and Ming-Hsuan Yang,
Real-Time Exemplar-Based Face Sketch Synthesis,
European Conference on Computer Vision (**ECCV**) 2014
23. **Yibing Song**, Linchao Bao, and Qingxiong Yang,
Real-Time Video Decolorization Using Bilateral Filtering,
IEEE Winter Conference on Applications of Computer Vision (**WACV**) 2014
24. **Yibing Song**, Linchao Bao, Xiaobin Xu, and Qingxiong Yang,
Decolorization: Is rgb2gray () out?
ACM SIGGRAPH ASIA Technical Briefs 2013
25. Linchao Bao, **Yibing Song**, Qingxiong Yang, and Narendra Ahuja,
An edge-preserving filtering framework for visibility restoration
International Conference on Pattern Recognition (**ICPR**) 2012
26. Wengang Zhou, Yijuan Lu, Houqiang Li, **Yibing Song**, and Qi Tian,
Spatial coding for large scale partial-duplicate web image search,
ACM International Conference on Multimedia (**MM**) 2010

Journal papers: (2 IJCV, 6 IEEE TIP)

1. Ning Wang, Wengang Zhou, **Yibing Song**, Chao Ma, Wei Liu, and Houqiang Li,
Unsupervised Deep Representation Learning for Real-Time Tracking,
International Journal of Computer Vision (**IJCV**) 2020
2. Ning Wang, Wengang Zhou, **Yibing Song**, Chao Ma, and Houqiang Li,
Real-Time Correlation Tracking via Joint Model Compression and Transfer,
IEEE Transactions on Image Processing (**TIP**) 2020
3. Yajing Chen, Fanzi Wu, Zeyu Wang, **Yibing Song**, Yonggen Ling, and Linchao Bao,
Self-supervised Learning of Detailed 3D Face Reconstruction,
IEEE Transactions on Image Processing (**TIP**) 2020
4. Shi Pu, **Yibing Song**, Chao Ma, Honggang Zhang, and Ming-Hsuan Yang,
Learning Recurrent Memory Activation Networks for Visual Tracking,
IEEE Transactions on Image Processing (**TIP**) 2020

5. Fei Zhao, Ting Zhang, **Yibing Song**, Ming Tang, Xiaobo Wang, and Jinqiao Wang,
Siamese Regression Tracking with Reinforced Template Updating,
IEEE Transactions on Image Processing (**TIP**) 2020
6. **Yibing Song**, Jiawei Zhang, Lijun Gong, Shengfeng He, Linchao Bao, Jinshan Pan,
Qingxiong Yang, and Ming-Hsuan Yang,
Joint Face Hallucination and Deblurring via Structure Generation and Detail Enhancement,
International Journal of Computer Vision (**IJCV**) 2019
7. Wenxi Liu, **Yibing Song**, Dengsheng Chen, Shengfeng He, Yuanlong Yu, Tao Yan, Gerhard Hancke, and Rynson Lau,
Deformable Object Tracking with Gated Fusion,
IEEE Transactions on Image Processing (**TIP**) 2019
8. **Yibing Song**, Linchao Bao, Shengfeng He, Qingxiong Yang, and Ming-Hsuan Yang,
Stylizing Face Images via Multiple Exemplars,
Computer Vision and Image Understanding (**CVIU**) 2017
9. Linchao Bao, **Yibing Song**, Qingxiong Yang, Hao Yuan, and Gang Wang,
Tree filtering: Efficient structure-preserving smoothing with a minimum spanning tree
IEEE Transactions on Image Processing (**TIP**) 2013