

Weihaio XIA

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Research Interests	image translation, image restoration and enhancement, domain adaption, depth estimation, semantic segmentation.	
Education	Tsinghua University (THU) Master in Control Engineering. Advisor: Yujiu Yang. Thsis: Image Restoration and Image Quailty Assessment via Deep Learning.	Sept., 2016 - Jul., 2019
	Sun Yat-Sen University (SYSU) Bachelor in Automation, School of Information Science and Technology.	Sept., 2012 - Jul., 2016
Preprints	<u>Weihaio Xia</u> , Yujiu Yang. Image Restoration via Segmentation Refinement . [PDF] [Project] <u>Weihaio Xia</u> , Yujiu Yang, Jing-Hao Xue, Jing Xiao. Domain-Aware No-Reference Image Quality Assessment . [PDF] [Project] <u>Weihaio Xia</u> , Yujiu Yang, Jing-Hao Xue. Cali-Sketch: Stroke Calibration and Completion for High-Quality Face Image Generation from Poorly-Drawn Sketches . [PDF] [Project] <u>Weihaio Xia</u> , Yujiu Yang, Jing-Hao Xue. Unsupervised Multi-Domain Multimodal Image-to-Image Translation with Explicit Domain-Constrained Disentanglement . [PDF] [Project]	
Publications	<u>Weihaio Xia</u> . Image Restoration and Image Quailty Assessment via Deep Learning . Thesis Submitted to Tsinghua University in partial fulfillment of the requirement for the professional degree of Master of Engineering. May 2019. <u>Weihaio Xia</u> , Yujiu Yang, Xianyu Bao. ECGAN: Image Translation with Multi-scale Relativistic Average Discriminator[C] . 8th International Conference on Artificial Intelligence and Mobile Services (Best Student Paper Awards), 2019, pp. 28–38. <u>Weihaio Xia</u> , Chengxi Yang, Yujiu Yang, Wenxiu Sun. Matching Low-Quality Photo to DSLR-Quality with Deep Convolutional Networks[C] . 7th International Conference on Artificial Intelligence and Mobile Services, 2018, pp. 43–54.	
Experiences	Tsinghua Shenzhen International Graduate School (SIGS) Research Assistant ◦ research and implementation on image-to-image translation, restoration and enhancement, domain adaption. AR/VR Engineering Department, 2012 Labs, Huawei Algorithm Engineer ◦ implement a semantic segmentation algorithm using TensorFlow multi-GPU training. ◦ investigate and implement current methods to improve layout estimation algorithm. ◦ design a Camera-IMU framework for depth estimation as the front of AR applications. SenseTime Group Limited R&D Intern ◦ design and implement a novel inverse tone mapping and bracketed image HDR merging method. ◦ improve a image enhancement algorithm using deep learning.	Jun., 2019 - Aug., 2019 Jun., 2018 - Sep., 2018 Oct. 2017 - Mar., 2018
Skills	English: CET-6 Programming: Python, Matlab, C/C++, Java	Libs: PyTorch, TensorFlow, MXNet Tools: Linux Shell, Markdown, Bash