XIAOWEI HU

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Address: Rm 1024, SHB, The Chinese University of Hong Kong, Shatin, Hong Kong.

EDUCATION

The Chinese University of Hong Kong (CUHK), Ph.D. in Computer Science and Engineering. 08/2016 - Present
Advisor: Prof. Pheng-Ann Heng & Prof. Chi-Wing Fu   Expected graduation date: 07/2020
Research interests: Computer Vision, Deep Learning.

South China University of Technology (SCUT), B.Eng. in Computer Science and Technology. 09/2012 - 07/2016
GPA: 3.95/4.0 (_Rank 1^{st}_ in All-English-Teaching Union Class)
⋆ Selected by SCUT for **a special class for the most promising students**.

PUBLICATIONS

[1] _Direction-aware Spatial Context Features for Shadow Detection_
Xiaowei Hu, Lei Zhu, Chi-Wing Fu, Jing Qin, and Pheng-Ann Heng
IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018 (**Oral**, acceptance rate: **2.1%**)

[2] _Recurrently Aggregating Deep Features for Salient Object Detection_
Xiaowei Hu, Lei Zhu, Jing Qin, Chi-Wing Fu, and Pheng-Ann Heng
AAAI Conference on Artificial Intelligence (**AAAI**), 2018 (**Spotlight**)

[3] _SINet: A Scale-insensitive Convolutional Neural Network for Fast Vehicle Detection_
Xiaowei Hu, Xuemiao Xu, Yongjie Xiao, Hao Chen, Shengfeng He, Jing Qin, and Pheng-Ann Heng
IEEE Transactions on Intelligent Transportation Systems (**T-ITS**), 2018

[4] _R^3Net: Recurrent Residual Refinement Network for Saliency Detection_
Zijun Deng⋆, **Xiaowei Hu**⋆, Lei Zhu, Xuemiao Xu, Jing Qin, Guoqiang Han, and Pheng-Ann Heng (⋆joint 1st authors)
International Joint Conference on Artificial Intelligence (**IJCAI**), 2018

[5] _Deep Attentional Features for Prostate Segmentation in Ultrasound_
Yi Wang, Zijun Deng, **Xiaowei Hu**, Lei Zhu, Xin Yang, Xuemiao Xu, Pheng-Ann Heng, and Dong Ni
International Conference on Medical Image Computing and Computer Assisted Intervention (**MICCAI**), 2018

[6] _AGNet: Attention-guided Network for Surgical Tool Presence Detection_
Xiaowei Hu, Lequan Yu, Hao Chen, Jing Qin, and Pheng-Ann Heng
Deep Learning in Medical Image Analysis and Multimodal Learning for Clinical Decision Support, 2017

[7] _Direction-aware Spatial Context Features for Shadow Detection and Removal_
Xiaowei Hu, Chi-Wing Fu, Lei Zhu, Jing Qin, and Pheng-Ann Heng
IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**) (Under Review)

[8] _Saliency-aware Texture Smoothing_
Lei Zhu⋆, **Xiaowei Hu**⋆, Chi-Wing Fu, Jing Qin, and Pheng-Ann Heng (⋆joint 1st authors)
IEEE Transactions on Visualization and Computer Graphics (**TVCG**) (Under Review)

[9] _Bi-directional Feature Pyramid Network with Recurrent Attention Residual Modules for Shadow Detection_
Lei Zhu, Zijun Deng, **Xiaowei Hu**, Chi-Wing Fu, Xuemiao Xu, Jing Qin, and Pheng-Ann Heng
European Conference on Computer Vision (**ECCV**), 2018 (Under Review)

HONORS AND AWARDS

Hong Kong Ph.D. Fellowship (**Highest** scholarship for students studying in Hong Kong)	2016 - 2020
Top 10 Outstanding Students at SCUT (_Rank 1^{st}_, **highest** award for students at SCUT)	2016
Google Excellence Scholarship (1 of 58 winners in **China**)	2015
Tencent Outstanding Scholarship (the **only** undergraduate winner at SCUT)	2015
National Scholarship (**Highest** national wide scholarship for undergraduate students in China)	2013
Gold Award of Pan-Pearl-River-Delta University IT Project Competition in China	2016
First Prize and Best Practical Award of University IT Project Competition in Guangdong Province	2016
First Prize of Adolescents Science & Technology Innovation Contest in Hebei Province	2011