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)   08/2016 - Present
Ph.D. in Computer Science and Engineering   Expected graduation date: 07/2020
Advisor: Prof. Pheng-Ann Heng & Prof. Chi-Wing Fu
Research Interests: Computer Vision, Deep Learning

South China University of Technology (SCUT)   09/2012 - 07/2016
B.Eng. in Computer Science and Technology
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

HONORS AND AWARDS

Hong Kong Ph.D. Fellowship (**Highest** scholarship for students studying in Hong Kong)	2016 - 2020
Certificate of Merit for Excellent Teaching Assistant awarded by CSE Department, CUHK	2018
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

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**)

[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 (**Oral**)

[5] *Bidirectional 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

[6] *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

PAPERS UNDER REVIEW

[1] *Anonymous*
Xiaowei Hu, Chi-Wing Fu, Lei Zhu, and Pheng-Ann Heng
Submitted to IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2019 (Under Review)

[2] *Anonymous*
Xiaowei Hu, Chi-Wing Fu, Lei Zhu, and Pheng-Ann Heng
Submitted to IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2019 (Under Review)

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

[4] *Saliency-aware Texture Smoothing*
Lei Zhu*, **Xiaowei Hu***, Chi-Wing Fu, Jing Qin, and Pheng-Ann Heng (*joint 1st authors)
Submitted to IEEE Transactions on Visualization and Computer Graphics (**TVCG**) (Minor Revision)

[5] *Deep Attentional Features for Prostate Segmentation in 3D Transrectal Ultrasound*
Yi Wang, Haoran Dou, **Xiaowei Hu**, Lei Zhu, Xin Yang, Ming Xu, et al.
Submitted to IEEE Transactions on Medical Imaging (**TMI**) (Under Review)