

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

Advisor: Prof. Pheng-Ann Heng & Prof. Chi-Wing Fu

Research Interests: Computer Vision, Deep Learning

08/2016 - Present

Expected graduation date: 07/2020

South China University of Technology (SCUT)

B.Eng. in Computer Science and Technology

GPA: 3.95/4.0 (*Rank 1st* in All-English-Teaching Union Class)

★ Selected by SCUT for a special class for the most promising students

09/2012 - 07/2016

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 1st*, **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**, 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] *R³Net: 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] *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)

[2] *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**) (Major Revision)

- [3] *Deep Attentive Features for Prostate Segmentation in 3D Transrectal Ultrasound*
Yi Wang, Haoran Dou, **Xiaowei Hu**, Lei Zhu, Xin Yang, Ming Xu, et al.
IEEE Transactions on Medical Imaging (**TMI**) (Under Review)
- [4] *One Paper on Medical Image Segmentation*
AAAI Conference on Artificial Intelligence (**AAAI**), 2019 (Under Review)
- [5] *One Paper on Salient Object Detection*
AAAI Conference on Artificial Intelligence (**AAAI**), 2019 (Under Review)