

XIAOWEI HU

Email: xwhu@cse.cuhk.edu.hk ◇ Homepage: <https://xw-hu.github.io/>

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 1st* 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] *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] *One Paper on Medical Image Segmentation*
AAAI Conference on Artificial Intelligence (**AAAI**), 2019 (Under Review)
- [4] *One Paper on Salient Object Detection*
AAAI Conference on Artificial Intelligence (**AAAI**), 2019 (Under Review)

HONORS AND AWARDS

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|---|-------------|
| Hong Kong Ph.D. Fellowship (Highest scholarship for students studying in Hong Kong) | 2016 - 2020 |
| Top 10 Outstanding Students at SCUT (<i>Rank 1st</i> , 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 |