

XIAOWEI HU

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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 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**)
- [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] *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
- [4] *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
- [5] *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)
- [6] *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**) (Under Review)
- [7] *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)
- [8] *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)
- [9] *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, pp.186-194, 2017

HONORS AND AWARDS

Hong Kong Ph.D. Fellowship (Highest scholarship for students study 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