## 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 ( $Rank\ 1^{st}$  in All-English-Teaching Union Class)

\* Selected by SCUT for a special class for the most promising students.

## **PUBLICATIONS**

- 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: 2.06%)
- [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), accepted for publication, 2018
- [4] R<sup>3</sup>Net: Recurrent Residual Refinement Network for Saliency Detection Zijun Deng\*, Xiaowei Hu\*, Lei Zhu, Xuemiao Xu, Jing Qin, Guoqiang Han, and Pheng-Ann Heng (\*joint 1<sup>st</sup> 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, pp.186-194, 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 1<sup>st</sup> 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 ( <b>Highest</b> scholarship for students study in Hong Kong)	2016 - 2020
Top 10 Outstanding Students at SCUT ( $\underline{Rank} \ 1^{st}$ , highest award for students at SCUT)	2016
Google Excellence Scholarship (1 of 58 winners in <b>China</b> )	2015
Tencent Outstanding Scholarship (the only undergraduate winner at SCUT)	2015
National Scholarship ( <b>Highest</b> 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