

Education

- Sep. 2018 - **Boston University, Boston.**
Present
 - Ph.D. student in Computer Science
 - Supervised by Prof. Stan Sclaroff and Prof. Kate Saenko.
 - Focus on deep learning and computer vision, particularly video analysis, image segmentation.
- Sep. 2013 - **University of Chinese Academy of Science, Beijing.**
Jul. 2016
 - M.E. student in Computer Science
 - Focus on image segmentation and image text analysis
 - Contribution: (1) an algorithm for video text localization. (2) An algorithm for oriented image text detection. (3) An algorithm for image text segmentation. (4) An algorithm for salient object segmentation.
- Sep. 2009 - **Sichuan University, Chengdu.**
Jun. 2013
 - B.E. student in Electronic Engineering.
 - A member of Wu Yuzhang Honorary College.
 - Focus on image analysis and processing, particularly image forgery detection.

Experience

- April. 2018 - **Algorithm Intern, Tusimple**, Beijing.
Aug. 2018 Topic: point cloud analysis and 3D object detection.
Contribution: Implementing the Sparse-Block Convolutional Network for VoxelNet in MxNet using C/CUDA for efficient 3D object detection.
- Jul. 2016 - **Research Student, Nanyang Technological University**, Singapore.
- Mar. 2018 Topic: deep learning for image analysis and computer vision.
Supervisor: Dr. Gang Wang, Prof. Yap-peng Tan
Contribution: (1) A deep level set network for salient object segmentation. (2) A fast accurate video object segmentation algorithm. (3) A very lightweight recurrent CNN for efficient optical flow estimation. (4) An attention network for semantic segmentation.

Publication

- **Ping Hu**, Gang Wang, Xiangfei Kong, Jason Kuen, Yap-peng Tan. Guided Cascaded Refinement Network for Video Object Segmentation, IEEE TPAMI. (Accepted)
- **Ping Hu**, Gang Wang, Xiangfei Kong, Jason Kuen, Yap-peng Tan. Motion-Guided Cascaded Refinement Network for Video Object Segmentation, IEEE CVPR, 2018.
- **Ping Hu**, Gang Wang, Yap-peng Tan, "Recurrent Spatial Pyramid CNN for Optical Flow Estimation", IEEE Trans. on Multimedia, 2018.
- **Ping Hu**, Bing Shuai, Jun Liu, Gang Wang, "Deep Level Set for Salient Object Detection", IEEE CVPR, 2017.
- Jun Liu, Gang Wang, **Ping Hu**, Ling-Yu Duan, Alex C. Kot, "Global Context-Aware Attention LSTM Networks for 3D Action Recognition", IEEE CVPR2017.
- **Ping Hu**, Weiqiang Wang, Chi Zhang, Ke Lu, "Detecting Salient Objects via Color and Texture Compactness Hypotheses", IEEE Trans. on Image Processing, 2016, 25(10)
- **Ping Hu**, Weiqiang Wang, Ke Lu, "A Novel Binarization Approach for Text in Images", IEEE ICIP, 2015.
- **Ping Hu**, Weiqiang Wang, Ke Lu, "Detecting Salient Objects via Spatial and Appearance Compactness Hypotheses", ACM Multimedia, 2015.
- **Ping Hu**, Weiqiang Wang, Ke Lu, "Video Text Detection with Text Edges and Convolutional Neural Network", Asian Conference on Pattern Recognition, 2015.

Computer Skill

C\C++, Python, matlab, CUDA, OpenCV, MxNet, pyTorch, Torch, LaTeX;

Activity

Reviewer

IEEE TMM, IEEE TCSVT, IEEE SPL, ACCV2018, CVPR2018, CVPR2019, ICCV2019

Teaching Assistant

2014 - 2015 Image Analysis and Computer Vision,UCAS

2015 Computer Vision,UCAS

2015 Machine Learning and Image Analysis,UCAS

2015 - 2016 Image Processing and Analysis,UCAS