WEITAO WAN

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🎓 EDUCATION

Tsinghua University (THU), Beijing, China   2016 - *present*
Ph.D student in Electronic Engineering (EE)
Image Recognition and High-speed Image Processing Lab.
Advisor: Prof. Jiansheng Chen

Tsinghua University (THU), Beijing, China   2012 - 2016
B.S. in Electronic Engineering (EE)
Thesis: Image Captioning with Target Localization

👥 EXPERIENCE

Sensetime Beijing, China   Jun. 2016 - Sep. 2016
Summer Intern, Algorithm Researcher on Computer Vision   Mentor: Dr. Yan Xia

Brief introduction: Car Plate Detection in Traffic Scenes.

- We used the Faster R-CNN architecture to detect the car plates in static images. In order to align the detected car plates with different angles of view, we did regression for the coordinates of the four corners of the car plates rather than two. Then a projective transformation was applied to align them.

Sensetime Beijing, China   Jun. 2015 - Oct. 2015
Summer Intern, Algorithm Researcher on Computer Vision   Mentor: Dr. Yan Xia

Brief introduction: Text Recognition on Car Plates, ID cards and Bank cards.

- We first trained a single-character recognition CNN model. Then we transformed it into Fully Convolutional network by copying the weights of the fully connected layer into a convolutional layer with corresponding kernel size. The sequence recognition algorithm we used to recognize the text was the Connectionist Temporal Classification (CTC) algorithm.

📓 PUBLICATIONS

Weitao Wan, Yuanyi Zhong, Tianpeng Li and Jiansheng Chen. "Rethinking feature distribution for loss functions in image classification." *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)* 2018. (spotlight)

Weitao Wan and Jiansheng Chen. "Occlusion robust face recognition based on mask learning." *IEEE International Conference on Image Processing (ICIP)*. 2017.

⚙ SKILLS

- Programming Languages: Python == Matlab > C++
- Deep Learning Tools: Tensorflow == Caffe > Pytorch

♡ HONORS AND AWARDS

3rd *Prize*, Award on Sohu Image-Text Matching Competition	Jun. 2017
National Encouragement Scholarship	Dec. 2014
Tsinghua Academic Scholarship	Dec. 2013
1st *Prize*, National Physics Competition for Undergraduates	Dec. 2013

ⓘ MISCELLANEOUS

- GitHub: https://github.com/WeitaoVan/
- Languages: English - Fluent, Mandarin - Native speaker