Yuhang Jiang

Male · jyh17@mails.tsinghua.edu.cn · (+86) 130-212-56491

Education

Tsinghua-UC Berkeley Institute (TBSI), Shenzhen, China 2017 – Present

Master of Science in Computer Science (CS), supervised by Wenwu Zhu

Tsinghua University (THU), Beijing, China 2013 – 2017

Bachelor of Engineering in Electronics Engineering (EE)

Tsinghua University, Beijing, China 2014 – 2017

Minor in Finance

Honors and Awards

1st Prize, Award on The Chinese Physics Competitions Dece. 2014
Scholarship of Academic Excellence April 2015
2nd Prize, Award on The Chinese Mathematics Competitions March 2016

Internship/Research Experience

Sensetime Group Limited Shenzhen, China July, 2018 – Present

Research Intern Manager: Liang Lin

Research on Deep Neural Network Compression Algorithm

- Introduced the learnable thresholds and designed the corresponding loss function, which achieved the same compression rate and accuracy without retraining
- Reproduced Deep Compression algorithm with PyTorch, and achieved the compression rate of 25* on AlexNet without significant loss in accuracy
- Tested MorphNet and other models with TensorFlow, and compared the compression rate under various hyperparameter settings on different datasets

Tsinghua University Beijing, China Jan. 2017 – July 2017

Research Assistant Big Data Laboratory, supervised by Wenwu Zhu

Weibo Cascade Dynamical Prediction System

- Predicted the Weibo cascades based on the current obesearved cascades by fitting the survival functions of the Weibo users with Weibull distribution, achieving a lower RMSLE than those with other fitting functions
- Reduced the prediction error of survival function and sub cascades related to the time, so that the system could update the prediction results online utilizing the new data
- /Solve/ the expiration problem of earlier Weibo by introducing the time window mechanism into the prediction of Weibo hot spots, which improved (the timeliness of) hot spot prediction results

Tsinghua University Beijing, China June 2016 – Sept. 2016

Research Assistant Department of Electronics Engineering, supervised by Shengjin Wang

Logo Detection based on Faster R-CNN

- Detected the logos of CHL in the webpages based on Faster R-CNN, which was applied to identify fake websites, and the mAP reached 91%
- Collected and cleaned the logo dataset, then applied data augmentation with affine transformation and other methods, which /solves/ the problem of insufficient data
- /Solve/ the multi-scale problem of the logos by adjusting anchor scales and applying multi-scale training, which improved the detection result

Skills

- Programming Languages: Python > Matlab > C++
- Framework of Deep Learning: Pytorch
- Platform: Familiar with Linux system and proficient in using Shell

Miscellaneous

- Languages: English - Fluent, Chinese - Native speaker