

Xuanyi Dong

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Education

University of Technology Sydney | Ph.D. in Computer Science
Mar 2017 – now | NSW, Australia | Advisor : Prof. Yi Yang

Beihang University | B.S. in Computer Science
Sep 2012 – Jul 2016 | Beijing, China

Research and Industry Experience

Facebook Reality Labs | Research Intern | hosted by Dr. Shoou-I Yu
May 2017 – Sep 2017 | Pittsburgh, PA

- Precise and Stable Facial Landmark Detection in High Resolution Videos.

Qihoo 360 | Research Intern | hosted by Prof. Shuicheng Yan
Feb 2016 – Oct 2016 | Beijing, P. R. China

- Deep CNN model acceleration (mainly focus on accelerating ResNet).
- Developed efficient object detection algorithms in the scenario of autonomous driving.

SenseTime Group Limited | Research Intern | hosted by Dr. Junjie Yan
Sep 2015 – Jan 2016 | Beijing, P. R. China

- Large-scale general object detection. Won the 2nd/3rd place in ILSVRC2015 DET/LOC tasks as the core member in "CUimage" team.
- Face Detection SDK. I implement an online detection-tracking-verification framework for the surveillance system.

Selected Conference Publications

[1] Supervision-by-Registration: An Unsupervised Approach to Improve the Precision of Facial Landmark Detectors

Xuanyi Dong, Shoou-I Yu, Xinhua Weng, Shih-En Wei, Yi Yang, Yaser Sheikh
Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018

[2] Style Aggregated Network for Facial Landmark Detection

Xuanyi Dong, Yan Yan, Wanli Ouyang, Yi Yang
Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018

[3] Exploit the Unknown Gradually: One-Shot Video-Based Person Re-Identification by Stepwise Learning

Yu Wu, Yutian Lin, Xuanyi Dong, Yan Yan, Wanli Ouyang, Yi Yang
Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018

[4] Soft Filter Pruning for Accelerating Deep Convolutional Neural Networks

Yang He, Guoliang Kang, Xuanyi Dong, Yanwei Fu, Yi Yang
Proc. of the International Joint Conference on Artificial Intelligence (IJCAI), 2018

[5] More is Less: A More Complicated Network with Less Inference Complexity

Xuanyi Dong, Junshi Huang, Yi Yang, Shuicheng Yan
Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2017

[6] Self-Paced Co-training

Fan Ma, Deyu Meng, Qi Xie, Zina Li, Xuanyi Dong
Proc. of the International Conference on Machine Learning (ICML), 2017

Selected Journal Publications

[1] Few-Example Object Detection with Model Communication

Xuanyi Dong, Liang Zheng, Fan Ma, Yi Yang, Deyu Meng
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2018

[2] Late Fusion via Subspace Search with Consistency Preservation

Xuanyi Dong, Yan Yan, Mingkui Tan, Yi Yang, Ivor W. Tsang
IEEE Transactions on Image Processing (TIP), 2019

AWARDS

TREC Video Retrieval Evaluation , Oct 2016

1st Place in Video Localization Task. (See our report)

Large Scale Visual Recognition Challenge , Dec 2015

3rd Place on Object Detection Task; 2nd Place on Object Localization Task

I was responsible for training Faster RCNN with different CNN backbones, building the multi-scale testing pipeline, and ensembling different detection models.

ACM International Collegiate Programming Contest , Oct 2014 – Jul 2015

Gold × 2, Silver Medals

I was the team leader, responsible for assigning different problems to each teammate and coordinating the computer usage. Our team has 3 people with 1 computer to solve 10 problems in 5 hours.

Academic Services

Journal Reviewer

- International Journal of Computer Vision (IJCV)
- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)
- Transactions on Computational Biology and Bioinformatics (TCBB)
- Pattern Recognition (PR) [Outstanding Reviewer]

Conference Reviewer

- ACM Multimedia (ACM MM), 2017, 2018
- Computer Vision and Pattern Recognition (CVPR), 2019