

Tong XIAO

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Education

- 08/2013 - Present **The Chinese University of Hong Kong**
Ph. D. (expected July 2017) in Electronic Engineering, advised by Prof. Xiaogang Wang
Research interests include computer vision and deep learning
- 08/2009 - 08/2013 **Tsinghua University, Beijing**
B. Eng. in Computer Science and Technology

Experience

- 08/2013 - Present **Dept. of Electronic Engineering** MMLAB, The Chinese University of Hong Kong
Research assistant with Prof. Xiaogang Wang
- ILSVRC2016 champions. We won the **1st places** in ImageNet detection, video object tracking, and Places2 scene parsing. I designed and pre-trained the base convolutional neural network, which was later fine-tuned on the object detection, tracking, and scene parsing tasks. See <http://image-net.org/challenges/LSVRC/2016/results> for more details.
- Researched on learning generic feature representations from multiple domains of data sources. When applied to the person re-identification, the proposed method outperforms state-of-the-art by large margin on five datasets. Resulted in a CVPR 2016 paper.
- 05/2014 - 08/2014 **Institute of Deep Learning (IDL), Baidu** Beijing
Intern - Researched on training a convolutional neural network with massive noisy labeled web images for classification. The proposed method leverages the need of large-scale manually labeled datasets, which are expensive to obtain. Resulted in a CVPR 2015 paper.
- 07/2012 - 03/2013 **Face++, Megvii** Beijing
Intern - Developed the initial version face detection and tracking systems for the start-up company in collaboration. My work contributed to
- <http://www.faceplusplus.com> – an online service platform for face recognition
- Crows Coming – the first move-your-body game on iOS

Publications

Joint Detection and Identification Feature Learning for Person Search

Tong Xiao, Shuang Li, Bochao Wang, Liang Lin, Xiaogang Wang

IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Spotlight, 2017

Learning Deep Feature Representations with Domain Guided Dropout for Person Re-identification

Tong Xiao, Hongsheng Li, Wanli Ouyang, Xiaogang Wang

IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2016

Learning from Massive Noisy Labeled Data for Image Classification

Tong Xiao, Tian Xia, Yi Yang, Chang Huang, Xiaogang Wang

IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2015

Person Search with Natural Language Description

Shuang Li, **Tong Xiao**, Hongsheng Li, Bolei Zhou, Dayu Yue, Xiaogang Wang
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2017

Object Detection in Videos with Tubelet Proposal Networks

Kai Kang, Hongsheng Li, **Tong Xiao**, Wanli Ouyang, Junjie Yan, Xihui Liu, Xiaogang Wang
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2017

Crafting GBD-Net for Object Detection

X Zeng, W Ouyang, J Yan, H Li, **T Xiao**, K Wang, Y Liu, Y Zhou, B Yang, Z Wang, H Zhou, X Wang
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), Accepted to be Published, 2017

T-CNN: Tubelets with convolutional neural networks for object detection from videos

K Kang, H Li, J Yan, X Zeng, B Yang, **T Xiao**, C Zhang, Z Wang, R Wang, X Wang, W Ouyang
arXiv preprint arXiv:1604.02532, 2016

Convolutional Neural Networks with Low-rank Regularization

Cheng Tai, **Tong Xiao**, Yi Zhang, Xiaogang Wang, Weinan E
International Conference on Learning Representations (ICLR), 2016

DeepReID: Deep Filter Pairing Neural Network for Person Re-Identification

Wei Li, Rui Zhao, **Tong Xiao**, Xiaogang Wang
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2014

Professional Activities

Reviewer

International Journal of Computer Vision (IJCV), 2017
IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 2017
IEEE Transactions on Image Processing (TIP), 2017
Elsevier Journal of Pattern Recognition, 2017
International Conference on Computer Vision (ICCV), 2017
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2017
Multimedia Tools and Applications (MTAP), 2017
European Conference on Computer Vision (ECCV), **Outstanding Reviewer Award**, 2016
Elsevier Journal of Computer Vision and Image Understanding (CVIU), 2016
IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), 2016

Awards

2010 - 2012	Undergraduate Scholarship	Tsinghua University
	Awarded to top 10% students each year under overall evaluation	
05/2010	Champion	14th Tsinghua University Artificial Intelligence Contest
	Develop AI programs for a computer game and compete with other players Website: https://ai.net9.org News (in Chinese): http://goo.gl/AJGBW2	
12/2008	First Prize, 3rd Place	National Olympiad in Informatics (Province)
	Competitors design and implement algorithms to solve problems	

Skills

Programming Languages

Proficient in C/C++, Python, and Matlab. Experience with Java and JavaScript.

Tools and Frameworks

Contributing to Caffe and Torch. Parallel programming with MPI, OpenMP, MapReduce, and CUDA. Experience with Qt, OpenCV, and Git.