

Dongze Lian

Huanke Road 199, Shanghai, China, liandz@shanghaitech.edu.cn, +86 13122303589

RESEARCH INTEREST

I'm a third year PhD student in computer science at ShanghaiTech University advised by Professor [Shenghua Gao](#). I am interested in computer vision (e.g. gaze estimation, crowd counting, action recognition) and deep learning (e.g. explanation of deep neural network, neural architecture search).

EDUCATION

ShanghaiTech University

Shanghai, China

Ph.D. Student in Computer Science

2016 – Present

Advisor: Prof. Shenghua Gao

Dalian University of Technology

Dalian, China

B.S. in Electronic and Information Engineering

2012 – 2016

Graduate with Honor

EXPERIENCE

Tencent AI Lab

Intern (Supervisor: Dr. Yin Zheng and Dr. Peilin Zhao) Dec, 2018 – May, 2019

SELECTED PUBLICATIONS

Conference:

- [1] **Dongze Lian**, Jing Li, Jia Zheng, Weixin Luo, Shenghua Gao. ‘Density Map Regression Guided Detection Network for RGB-D Crowd Counting and Localization’ (CVPR2019).
- [2] Cheng hao*, **Dongze Lian***, Bowen Deng, Shenghua Gao, Tao Tan, Yanlin Geng. ‘Local to Global Learning: Gradually Adding Classes for Training Deep Neural Networks’. (CVPR2019).
- [3] Zehao Yu, Jia Zheng, **Dongze Lian**, Zihan Zhou, Shenghua Gao. ‘Single-Image Piece-wise Planar 3D Reconstruction via Associative Embedding’ (CVPR2019).
- [4] **Dongze Lian**, Ziheng Zhang, Weixin Luo, Lina Hu, Minye Wu, Zechao Li, Jingyi Yu, Shenghua Gao. ‘RGBD Based Gaze Estimation via Multi-task CNNs’ (AAAI2019, accepted rate 16.2%).
- [5] Hao Cheng, **Dongze Lian**, Shenghua Gao, Yanlin Geng. ‘Evaluating Capability of Deep Neural Networks for Image Classification via Mutual Information’ (ECCV2018).

[6] **Dongze Lian**, Zehao Yu, Shenghua Gao. ‘Believe It or Not, We Know What You Are Looking at!’ (ACCV2018 **Oral**, accepted rate 4.6%).

[7] Wen Liu, Weixin Luo, **Dongze Lian**, Shenghua Gao. ‘Future Frame Prediction for Anomaly Detection – A New Baseline’ (CVPR2018).

Journal:

[1] Weixin Luo, Wen Liu, Shenghua Gao, **Dongze Lian**, Jinhui Tang, Lixin Duan, Xi Peng. ‘Video Anomaly Detection with Sparse Coding Inspired Deep Neural Networks’ (submitted to TPAMI).

[2] Hao Cheng, **Dongze Lian**, Shenghua Gao, Yanlin Geng. ‘Utilizing Information Bottleneck to Evaluate the Capability of Deep Neural Networks for Image Classification’ (Entropy 2019).

[3] **Dongze Lian**, Lina Hu, Weixin Luo, Yanyu Xu, Lixin Duan, Jingyi Yu, Shenghua Gao. ‘Multi-view Multi-task Gaze Prediction with Deep Convolutional Neural Networks’ (TNNLS 2018).

PROJECTS

- Baidu star competition (Second Prize). *Sep, 2018*
- Functional Map of the World (fMoW) Challenge (Our team won the 7th place in fMoW classification). *Dec, 2017*
- iCAN International Contest of innovation 2014 (First prize). *Sep, 2014*

PROFESSIONAL SERVICE

- Reviewer, IEEE Transactions on Neural Networks and Learning Systems (TNNLS).
- Reviewer, Neurocomputing.
- Reviewer, IEEE International Conference on Computer Vision (ICCV2019).
- Teaching Assistant: Computer Vision II – Image Understanding, Spring 2018.
- Teaching Assistant: Computer Vision I – Image Processing, Autumn 2017.
- PyTorch-0.3.0 official document translation (English -> Chinese), Autumn 2017.

ADDITIONAL SKILLS

- Language & Software & Framework:
C/C++, MATLAB, Python, LATEX, OpenCV, Caffe, Tensorflow, PyTorch.
- Operating Systems:
Linux, Windows.