ZHEDONG ZHENG

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EDUCATION AND RESEARCH EXPERIENCE

University of Technology Sydney, Sydney, Australia — 2017 - Present
Ph.D Student (Advisors: Prof. Yi Yang and Dr. Liang Zheng)

Nvidia Research, San Jose, United States — 2018
Research Intern (Hosts: Dr. Xiaodong Yang, Dr. Zhiding Yu and Dr. Jan Kautz)

Fudan University, Shanghai, China — 2012 - 2016
B.S. in Computer Science (Advisor: Prof. Xiangyang Xue)

RESEARCH INTEREST

Computer Vision and Machine Learning
Image Retrieval, Person Re-identification, Image-text Understanding
Image Generation, Pedestrian Generation, Adversarial Samples

PUBLICATIONS

1. Joint Discriminative and Generative Learning for Person Re-identification.
IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2019. (Oral)
Zhedong Zheng, Xiaodong Yang, Zhiding Yu, Liang Zheng, Yi Yang, Jan Kautz

2. Unlabeled Samples Generated by GAN Improve the Person Re-identification Baseline in vitro.
IEEE International Conference on Computer Vision (**ICCV**), 2017. (Spotlight)
Zhedong Zheng, Liang Zheng, Yi Yang

3. Unsupervised Scene Adaptation with Memory Regularization in vivo.
International Joint Conference on Artificial Intelligence (**IJCAI**), 2020.
Zhedong Zheng, Yi Yang

4. A Discriminatively Learned CNN Embedding for Person Re-identification.
ACM Transactions on Multimedia Computing, Communications, and Applications (**TOMM**), 2018.
Zhedong Zheng, Liang Zheng, Yi Yang

5. Pedestrian Alignment Network for Large-scale Person Re-identification.
IEEE Transactions on Circuits and Systems for Video Technology (**TCSVT**), 2019.
Zhedong Zheng, Liang Zheng, Yi Yang

6. Dual-Path Convolutional Image-Text Embedding.
ACM Transactions on Multimedia Computing, Communications, and Applications (**TOMM**), 2020.
Zhedong Zheng, Liang Zheng, Michael Garrett, Yi Yang, Yi-Dong Shen

7. Real-World Automatic Makeup via Identity Preservation Makeup Net.
International Joint Conference on Artificial Intelligence (**IJCAI**), 2020.
Zhikun Huang, **Zhedong Zheng**, Chenggang Yan, Hongtao Xie, Yaoqi Sun, Jianzhong Wang, Jiyong Zhang

8. Macro-Micro Adversarial Network for Human Parsing.
European Conference on Computer Vision (**ECCV**), 2018.
Luo Yawei, **Zhedong Zheng**, Liang Zheng, Tao Guan, Junqing Yu, Yi Yang

9. Camera Style Adaptation for Person Re-identification.
IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018.
Zhun Zhong, Liang Zheng, **Zhedong Zheng**, Shaozi Li, Yi Yang

10. Multi-pseudo Regularized Label for Generated Samples in Person Re-Identification.
IEEE Transactions on Image Processing (**TIP**), 2018.
Yan Huang, Jinsong Xu, Qiang Wu, **Zhedong Zheng**, Zhaoxiang Zhang, Jian Zhang

11. Camstyle: a novel data augmentation method for person re-identification.
IEEE Transactions on Image Processing (**TIP**), 2018.
Zhun Zhong, Liang Zheng, **Zhedong Zheng**, Shaozi Li, Yi Yang

12. Improving Person Re-identification by Attribute and Identity Learning.
Pattern Recognition (**PR**), 2019.
Yutian Lin, Liang Zheng, **Zhedong Zheng**, Yu Wu, Yi Yang

13. Bayesian query expansion for multi-camera person re-identification.
Pattern Recognition Letters, 2018.
Yutian Lin, **Zhedong Zheng**, Hong Zhang, Chenqiang Gao, Yi Yang

14. VehicleNet: Learning Robust Feature Representation for Vehicle Re-identification.
IEEE Conference on Computer Vision and Pattern Recognition (CVPR) Workshop, 2019.
Zhedong Zheng, Tao Ruan, Yunchao Wei, Yi Yang

15. Diagnose like a Radiologist: Attention Guided Convolutional Neural Network for Thorax Disease Classification.
Pattern Recognition Letters, 2020.
Qingji Guan, Yaping Huang, Zhun Zhong, **Zhedong Zheng**, Liang Zheng, Yi Yang

16. Unsupervised Eyeglasses Removal in the Wild.
IEEE Transactions on Cybernetics, 2020.
Bingwen Hu, **Zhedong Zheng**, Ping Liu, Wankou Yang, Mingwu Ren

ARXIV PAPERS

1. Open Set Adversarial Examples.
Zhedong Zheng, Liang Zheng, Zhilan Hu, Yi Yang

2. Rectifying Pseudo Label Learning via Uncertainty Estimation for Domain Adaptive Semantic Segmentation.
Zhedong Zheng, Yi Yang

3. University-1652: A Multi-view Multi-source Benchmark for Drone-based Geo-localization.
Zhedong Zheng, Yunchao Wei, Yi Yang

4. Person Re-identification in the 3D Space.
Zhedong Zheng, Yi Yang

5. Progressive Local Filter Pruning for Image Retrieval Acceleration.
Xiaodong Wang, **Zhedong Zheng**, Yang He, Fei Yan, Zhiqiang Zeng, Yi Yang

AWARDS

First Place Winner in AICity Challenge 2020
First-class Scholarship at Fudan University 2013, 2014, 2015, 2016

OPEN SOURCE

Codes and models for my published papers are available on my GitHub: `https://github.com/layumi`