

Zhe Wang

Ph.D. candidate in Electronic Engineering

[Google Scholar](#)

[Homepage](#)

Room 304, Ho Sin Hang Engineering

Building, Shatin, HK

+ 852 62349671

wzlewis16@gmail.com

Biography

- 08/2012 - PRESENT I am a fourth-year Ph.D. student in Department of Electronic Engineering of The Chinese University of Hong Kong (CUHK). My supervisor is Prof. Xiaogang Wang. I am both in Multimedia Lab (mmlab) and Image and Video Processing Lab (IV-PLab).
- 09/2008 - 06/2012 I received a Bachelor's degree in Department of Optical Engineering, Zhejiang University (ZJU).

Projects

- 06/2016 - 09/2016 **ImageNet Object Detection Challenge 2016** Our team CUImage Ranks **No.1** in provided training data track, and ranks **No.2** in additional training data track.
- 11/2015 - 03/2016 **Learnable Histogram: Statistical Context Features for Deep Neural Networks** Propose a histogram layer for learning statistical context features within deep neural networks in end-to-end training, which is designed for semantic segmentation and object detection.
- 07/2015 - 10/2015 **ImageNet Object Detection from Video Challenge 2015** Our team CUvideo Ranks **No.1** in provided training data track, and ranks **No.2** in additional training data track.
- 07/2015 - 10/2015 **ImageNet Object Detection Challenge 2015** Our team CUimage Ranks **No.2** in additional training data track, and ranks **No.3** in provided training data track.
- 09/2014 - PRESENT **Learning Deep Representations for Scene Labeling from Semantic Context** Propose an algorithm for scene labeling by exploiting the semantic context based on deep convolutional neural networks.
- 09/2014 - 06/2015 **Magnetic Resonance Fingerprinting with Compressed Sensing and Distance Metric Learning** Propose a compressed sensing framework for Magnetic Resonance Fingerprinting with distance metric learned from the training data.
- 06/2014 - 08/2014 **ImageNet Object Detection Challenge 2014** Our team DeepID-NET ranks **No.2** in additional data track.
- 07/2013 - 05/2014 **MRF Denoising with Compressed Sensing and Adaptive Filtering** Propose an algorithm to improve the quality of Magnetic Resonance Fingerprinting with compressed sensing, error prediction by decision trees and adaptive filtering.

Publications

- PROCEEDINGS “*Learnable Histogram: Statistical Context Features for Deep Neural Networks*”, **Zhe Wang**, Hongsheng Li, Wanli Ouyang, Xiaogang Wang, European Conference on Computer Vision (ECCV), 2016
- PROCEEDINGS “*Crafting GBD-Net for Object Detection*”, Xingyu Zeng, Wanli Ouyang, Junjie Yan, Hongsheng Li, Tong Xiao, Kun Wang, Yu Liu, Yucong Zhou, Bin Yang, **Zhe Wang**, Hui Zhou, Xiaogang Wang, technical report, Arxiv, 2016
- PROCEEDINGS “*Learning Deep Representations for Scene Labeling with Strong Supervision from Semantic Context*”, **Zhe Wang**, Hongsheng Li, Wanli Ouyang, Xiaogang Wang, submitted to Transaction on Image Processing, 2016

- PROCEEDINGS “*Magnetic Resonance Fingerprinting with Compressed Sensing and Distance Metric Learning*”, **Zhe Wang**, Hongsheng Li, Qinwei Zhang, Jing Yuan, Xiaogang Wang, Journal of Neurocomputing, 2016
- PROCEEDINGS “*DeepID-Net: Object Detection with Deformable Part Based Convolutional Neural Networks*”, Wanli Ouyang, Xingyu Zeng, Xiaogang Wang, Shi Qiu, Ping Luo, Yonglong Tian, Hongsheng Li, Shuo Yang, **Zhe Wang**, Hongyang Li, Kun Wang, Junjie Yan, Chen-Change Loy, Xiaoou Tang, IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2016
- PROCEEDINGS “*DeepID-Net: Deformable deep convolutional neural networks for object detection*”, Wanli Ouyang, Xiaogang Wang, Xingyu Zeng, Shi Qiu, Ping Luo, Yonglong Tian, Hongsheng Li, Shuo Yang, **Zhe Wang**, Chen-Change Loy, Xiaoou Tang, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2015
- PROCEEDINGS “*Deepid-net: multi-stage and deformable deep convolutional neural networks for object detection*”, Wanli Ouyang, Ping Luo, Xingyu Zeng, Shi Qiu, Yonglong Tian, Hongsheng Li, Shuo Yang, **Zhe Wang**, Yuanjun Xiong, Chen Qian, Zhenyao Zhu, Ruohui Wang, Chen-Change Loy, Xiaogang Wang, Xiaoou Tang, technical report, Arxiv, 2014
- PROCEEDINGS “*MRF denoising with compressed sensing and adaptive filtering*”, **Zhe Wang**, Qinwei Zhang, Jing Yuan, Xiaogang Wang, IEEE 11th International Symposium on Biomedical Imaging (ISBI), 2014

Teaching

ENGG5202	Pattern Recognition
BMEG4320	Biomedical Imaging Applications
ENGG1110	Problem Solving By Programming
ELEG2202	Circuit and Device
ENGG1110B	Basic Circuit Theory

Awards

10/2015	Rank No.1 in the ImageNet Object Detection from Video Challenge
10/2015	Rank No.2 in the ImageNet Object Detection Challenge
08/2014	Rank No.2 in the ImageNet Object Detection Challenge
2012-2013 AND 2013-2014	Outstanding Tutor award
2010-2011	Third Prize in the "Challenge Cup" of Science and Technology Invention
2009-2010	Second-grade "Shun Yu" scholarship in ZJU
2009-2010	Excellent Cadre of Students in ZJU
2009-2010	Outstanding League Cadres in ZJU
2008-2009	Third-grade undergraduate scholarship in ZJU

Techinal Skills

PROGRAMMING LANGUAGES	MATLAB, python, C++, C, java
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