

Curriculum Vitae

Meilu Zhu

Master's Degree

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Research Interests

Machine Learning, Deep Learning, Computer Vision, Video-based Face Analysis, Facial Landmark Detection(2D/3D),

Education

2016.09 – 2019.07	M.Eng.	GPA: 3.31/4.0
Shenzhen University	Computer Science and Technology	
2012.09 – 2016.07	B.Eng.	GPA: 3.44/4.0
Hubei University of Arts and Science	Computer Science and Technology	

Project Experience

Face Expression Recognition Research based on Deep Learning and Thin Plate Spline Latent Variable 2016-2019

This research is supported by Shenzhen Science and Technology Innovation Commission (SZSTI). It focuses on developing a face expression recognition system that can cater for demand of speed and precision in practical applications.

In this project, I finished the two phases of face detection and facial landmark detection.

Straggler-aware Synchronous Stochastic Gradient Descent for Distributed Machine Learning 2019-

This project aims to accelerate the model training on the premise of guaranteeing convergence in distributed machine learning by solving the high delay problem due to the stragglers (slow workers).

In this project, I am mainly responsible for the system framework design (secondary development basing on Pytorch) and the performance test on different tasks, including Image Classification (on Cifar and ImageNet), NLP(COBM and BERT), Recommender System(DeepFM and Wide & Deep), Graph Attention Networks.

Curriculum Vitae

Professional Skills

Programming Language: Python, Java, C, C++

Deep Learning Framework: Pytorch, Tensorflow, Caffe

Awards

Outstanding Postgraduate of Guangdong Province (0.22%)	2019.05
Excellent Postgraduate Graduate (10%)	2019.05
Outstanding Postgraduate Scholarship	2018.10
Outstanding Postgraduate Scholarship	2017.10
Excellent Student of Academic Performance(3 years)	2016-2018
National Encouragement Scholarship	2015.11
Excellent Student Scholarship (2nd Prize)	2014.11
Excellent Student Scholarship (2nd Prize)	2013.11

Publication

Conference

[1] **Meilu Zhu**, Daming Shi*, Mingjie Zheng, Muhammad Sadiq. Robust facial landmark detection via occlusion-adaptive deep networks. in *IEEE Conference on Computer Vision and Pattern Recognition 2019 (CVPR'19)*. Long Beach, CA, U.S. 2019. [\[PDF\]](#)

[2] **Meilu Zhu**, Daming Shi*. Deep geometry embedding networks for robust facial landmark detection. In *IEEE International Conference on Multimedia and Expo 2019 (ICME'19)*. Shanghai, China, 2019. [\[PDF\]](#)

[3] **Meilu Zhu**, Daming Shi*, Songkui Chen, Junbin Gao. Branched convolutional neural networks for face alignment. In *Pacific-Rim Conference on Multimedia 2018 (PCM'18)*. Hefei, Anhui, China, 2018, pp. 291-302. [\[PDF\]](#)

[4] Daming Shi*, **Meilu Zhu**, Yongqiang Zhang, Feng Tian. An advanced level set method based on Bregman divergence for inhomogeneous image segmentation. *IEEE International Conference on Machine Learning and Cybernetics 2017 (ICMLC'17)*. Ningbo, Zhejiang, 2017, pp. 334-339. [\[PDF\]](#)

Journal

[1] **Meilu Zhu**, Daming Shi*, Junbin Gao. "Branched convolutional neural networks incorporated with Jacobian-based deep regression for face alignment." *Neural Networks*. Vol.118, pp. 127-139, 2019. [\[PDF\]](#)
