Curriculum Vitae

Meilu Zhu [https://meiluzhu.github.io]

Master's Degree

Email: zhumeiluemail@gmail.com

Telephone: (+86) 13602573940

Address: Room 3661, Department of Computer Science & Engineering, HKUST, Hong Kong, China

Research Interests

Machine Learning, Deep Learning, Computer Vision, 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: 3.26/4.0**
Hubei University of Arts and Science		Computer Science and Technology

Work Experience

Research Assistant	2019.08 – Present	Hong Kong University of Science & 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 was mainly responsible for the stage of facial landmark detection. And I had published few papers about this topic, please see my publications in next page.

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]