Guohang Zeng

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EDUCATION

Shenzhen University   Shenzhen, China
Bachelor of Engineering in Computer Science(Honor Program); GPA: 3.66/4.15   *Sep. 2012 – July. 2016*

EXPERIENCE

Institute of Computer Vision, Shenzhen University   Dec 2015 - Present
Research Assistant, Adviser: Prof. Linlin Shen

- **Face recognition with single sample per person**: by using the proposed hand-crafted feature guided network and deep metric learning, we achieved state of the art result on the CK+ dataset.(under review)

- **Facial expression recognition**: we achieved state of the art results on several datasets by using our proposed sparse representation based classifier and convolutional neural network. Paper has been accept by *Pattern Recognition 2017*

Taisau   Jun 2016 - Present
Computer Vision engineer

- **Deep face representaion for face verification**: implemented CNN models for high accuracy face verification, combined with various state of the art approaches, including: age-invariant face representation, deep metric learning, Inception-Residual CNN architecture, joint-bayesian metric, CNN ensemble and domain adaptation. Our applications has been adopted by Shenzhen Government. (media report)

- **Convolutional neural network acceleration**: accelerating CNN models by using various approaches, including: depthwise separable convolution, low rank approximation and structural network pruning. We achieved 1.6x to 2.0x speedup ratio based on the network architecture.

National High Performance Computing Center at Shenzhen   Dec 2013 - Nov 2014
Research Student, Adviser: Prof. Rui Mao

- **Metric space indexing algorithm**: optimized data query performance in a metric space databases system by designed and implemented a novel indexing algorithm.

PUBLICATIONS

1. **Guohang Zeng**, Jiancan Zhou, Xi Jia, Weicheng Xie and Linlin Shen, "Hand-crafted Feature Guided Deep Learning for Facial Expression Recognition", in submmited to *International Conference on Face and Gesture Recognition(**FG 2018**)*

2. Jiancan Zhou, **Guohang Zeng**, Jia He, Xi Jia, and Linlin Shen, "Synthesis and Recognition of Internet Celebrity Face Based on Deep Learning", in *Chinese Conference on Biometric Recognition(**CCBR**)2017*

3. Meng Yang, Xin Wang, **Guohang Zeng** and Linlin Shen, "Joint and collaborative representation with local adaptive convolution feature for face recognition with single sample per person", in ***Pattern Recognition**, 2017, 66(C):117-128.*

HONORS AND AWARDS

University Scholarship, Top Class Honor (Top 1%)   2013-2014
Loongson Scholarship   2012-2013

SKILLS

Languages   Python, C/C++ , Java , Matlab
Technologies   Caffe, PyTorch, OpenCV, OpenMP, Linux