Keke He

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🎓 Education

Fudan University, China, *MS* in Computer Science, GPA: 3.70/4.00   2015 – 2018
East China Normal University, China, *BS* in Software Engineering, GPA: 3.53/4.00   2011 – 2015

👥 Experience

Face Recognition , Python

- Design an attribute constrained deep network for facial feature extraction.
- Achieve 77.98% rank-1 accuracy on MegaFace, which is the current **best result under small protocol**[2].

Face Detection and Facial Attribute Analysis , Python

- Achieves 8.2%mean error of 40 attributes on CelebA benchmark, superior to current best 9.1%.
- Propose an adaptively weighted multi-task network for facial attribute analysis[1].
- Propose a jointly learned architecture for both attribute analysis and face detection[4].

Facial Landmark Localization , Python

- Propose a landmark localization with 3D head pose estimation algorithm.
- Our localization result on 3 test sets of the 300-W benchmark is 4.58, 8.95, 5.43 respectively, which is better than LinkFace[3].

Large Scale Clothes Image Matching , Python, C++

- This is a competition of finding the exact same product from 2 million images which held by Alibaba.
- I design the deep feature extraction network and the similarity function to find the matching product.

Netease Games. Hangzhou, China, C++, Python   2017.3 – 2017.5

- Given 3D face model, construct the similar 3D face for user 2D image.
- Construct a similar 3D face via deep face feature and facial landmarks.

Baidu Inc. Shanghai, China Java, Python   2016.7 – 2016.9

- Responsible for checking module in the finance system.
- Implement checking module, find 20+ inconsistent data problems, solve problems with colleagues.

ℹ Publications And Technical Reports

[1] **Keke He**, Zhanxiong Wang, Yanwei Fu, Rui Feng, Yu-Gang Jiang, Xiangyang Xue, Adaptively Weighted Multi-task Deep Network for Person Attribute Classification, ACM Multimedia, USA, 2017. **CCF A**
[2] Zhanxiong Wang*, **Keke He***, Yanwei Fu, Rui Feng, Yu-Gang Jiang, Xiangyang Xue, Multi-task Deep Neural Network for Joint Face Recognition and Facial Attribute Prediction, ACM International Conference on Multimedia Retrieval, (ICMR), Romania, 2017, *** equal contribution**. **CCF B**
[3] **Keke He**, Xiangyang Xue, Facial Landmark Localization by Part-Aware Deep Convolutional Network, Pacific-Rim Conference on Multimedia (PCM), China, 2016. **CCF C**
[4] **Keke He**, Yanwei Fu, Xiangyang Xue, A Jointly Learned Deep Architecture for Facial Attribute Analysis and Face Detection in the Wild, in arXiv: 1707.08705, 2017.

⚙ Skills

- Implement CNN, RNN, LSTM, GAN, Neural Style structures from scratch .
- Rich experience in building machine learning applications.
- Adept in using Caffe, Theano, MXNet and Tensorflow.
- Programming Languages: Familar with C++, Python, Java.