張凱鵬 (ZHANG, Kaipeng)

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Research Interests

Computer Vision: Face recognition, face alignment, face detection, and face hallucination

Recognition and Machine Learning: Deep learning

Education

National Taiwan University   09/2016 - Present

M.E. (expected July 2018) in Computer Science, advised by Prof. Winston Hsu.

- GPA: 4.1/4.3

Donghua University, Shanghai   09/2012 - 06/2016

B.Eng. in Computer Network Engineering (Excellent Class)

- GPA: 87/100

Experience

Tencent AI Lab   07/2017- Present

Intern

National Taiwan University   09/2016 - Present

Research assistant (sponsored by **MediaTek**)

- Low-resolution face hallucination and recognition. We achieve superior hallucination visual quality and competitive face recognition results on LFW & YTF with only 12×14 input resolution.
- Emotion recognition in the wild

Multimedia Laboratory, Shenzhen Institutes of Advanced Technology   07/2015 - 08/2016

Visiting student

- Joint face detection and alignment using multi-task cascaded convolutional networks. We achieve the state-of-the-art performance with real-time running time efficiency. (Github)
- Facial gender, smile and accessories classification using deep convolutional neural networks. We win the First Price of ChaLearn Looking at People Challenge 2016 (Track 2 & 3).
- Using two-stream contextual CNN with inside cascaded structure for fast and accurate face detection.
- Face Recognition using proposed discriminative deep feature learning approach. We achieve the state-of-the-art results on MegaFace and competitive results on LFW and YTF by single model. (Github)

Publications

Kaipeng Zhang, Zhanpeng Zhang, Hao Wang, Zhifeng Li, Yu Qiao and Wei Liu, "Detecting Faces Using Two-stream Contextual CNN with Inside Cascaded Structure and Data Routing Training", in *IEEE International Conference on Computer Vision (ICCV)*, 2017

Yandong Wen, **Kaipeng Zhang,** Zhifeng Li, Yu Qiao, "A Discriminative Deep Feature Learning Approach for Face Recognition", *European Conference on Computer Vision (ECCV)*, 2016

Kaipeng Zhang, Lianzhi Tan, Zhifeng Li, Yu Qiao, "Gender and Smile Classification using Deep Convolutional Neural Networks", in *IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*, 2016

Kaipeng Zhang, Zhanpeng Zhang, Zhifeng Li, Yu Qiao, "Joint Face Detection and Alignment using Multi-task Cascaded Convolutional Networks", *IEEE Signal Processing Letters (SPL),* vol. 23, no. 10, pp. 1499-1503, 2016

Selected Honors & Awards

ChaLearn Looking at People workshop, CVPR 2016, Track 2 (Accessories Classification)   2016

- First Price (1st winner)

ChaLearn Looking at People workshop, CVPR 2016, Track 3 (Smile and Gender Classification)   2016
- First Price (1st winner)

Outstanding Bachelor Thesis   2016
- Joint Face Detection and Facial Landmarks Localization using Cascaded Convolutional Networks

China Undergraduate Mathematical Contest in Modeling   2015
- Second Prize in Shanghai

China Undergraduate Mathematical Contest in Modeling   2014
- Third Prize in Shanghai

ACM-ICPC Contest on Campus in Donghua University   2014
- Third Prize

Second-Class Scholarship in Shanghai Normal University   2013

English & Professional Skill

English: CET4 (529)

Senior Network Engineer (China)

C/C++, Python, and Matlab programming