張凱鵬 (ZHANG, Kaipeng)

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Google Scholar

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- 08/2017

Intern - Computer Vision Group

Adviser: Dr. Wei Liu and Dr. Zhifeng Li

- Real-time face detection and alignment

Ulsee Group Limited   10/2016 - Present

Algorithm consultant

- Facial analyses including face detection, face recognition, facial attributes recognition, etc.

National Taiwan University   09/2016 - Present

Research assistant (sponsored by **MediaTek**)

Adviser: Prof. Winston Hsu

- Group-level emotion recognition in the wild (1st winner of EmotionW, ICMI 2017 Grand Challenge).
- Low-resolution face hallucination and recognition.

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

Visiting student

Adviser: Prof. Yu Qiao and Prof. Zhifeng Li

- 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. (accepted by IEEE SPL, Github)
- Facial gender, smile and accessories classification using deep convolutional neural networks (1st winner of ChaLearn Looking at People Challenge 2016 - Track 2 & 3, CVPRW 2016).
- Using two-stream contextual CNN with inside cascaded structure for fast and accurate face detection (accepted by ICCV 2017).
- 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. (accepted by ECCV 2016, Github)

Publications

Lianzhi Tan, **Kaipeng Zhang**, Kai Wang, Xiaoxing Zeng, Xiaojiang Peng and Yu Qiao, "Group Emotion Recognition with Individual Facial Emotion CNNs and Global Image Based CNNs", in *ACM International*

*Conference on Multimodal Interaction (**ICMI**)*, 2017 - Grand Challenge

Kaipeng Zhang, Zhanpeng Zhang, Hao Wang, Zhifeng Li, Yu Qiao and Wei Liu, "Detecting Faces Using Inside Cascaded Contextual CNN", 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

Emotion Recognition in the Wild, ICMI 2017 Grand Challenge	2017
● 1st winner in Group-level emotion recognition challenge	
ChaLearn Looking at People workshop, CVPR 2016, Track 2 (Accessories Classification)	2016
● 1st winner	
ChaLearn Looking at People workshop, CVPR 2016, Track 3 (Smile and Gender Classification)	2016
● 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

Academic Service

Reviewer of CVPR 2018

English & Professional Skill

English: CET4 (529)

Senior Network Engineer (China)

C/C++, Python and Matlab programming