

Kai Wang

PH.D STUDENT · COMPUTER SCIENCE

Institutes of Data Science & School of Computing, National University of Singapore

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Education

School of Computing, National University of Singapore

PH.D STUDENT

- Advisor: Presidential Young Prof. Yang You

Singapore

08.2021 -

University of Chinese Academy of Sciences

MASTER OF ENGINEERING

- Outstanding Graduates
- Advisor: Prof. Yu Qiao and Assoc. Prof. Xiaojiang Peng

Beijing, China

09.2017 - 06.2020

Beijing Normal University Zhuhai Campus

BACHELOR OF ENGINEERING

- China National Scholarship (Top 0.2%)
- Outstanding Graduates

Zhuhai, China

09.2013 - 06.2017

Publications

PUBLISHED

Chunmei Feng, **Kai Wang**, Shijian Lu, Yong Xu, Xuelong Li. 2021. **Brain MRI Super-Resolution using Coupled-Projection Residual Network**. Neurocomputing.

Kai Wang, Xiaojiang Peng, Jianfei Yang, Shijian Lu, Yu Qiao. 2020. **Suppressing Uncertainties for Large-Scale Facial Expression Recognition**. IEEE/CVF Conference on Computer Vision and Pattern Recognition, 6897-6906.

Kai Wang, Xiaojiang Peng, Jianfei Yang, Debin Meng, Yu Qiao. 2020. **Region Attention Networks for Pose and Occlusion Robust Facial Expression Recognition**. IEEE Transactions on Image Processing, 4057-4069.

Xiaojiang Peng*, **Kai Wang***, Zhaoyang Zeng*, Qing Li, Jianfei Yang, Yu Qiao. 2020. **Suppressing Misabeled Data via Grouping and Self-Attention**. European Conference on Computer Vision, 786-802. Equal Contribution

Kai Wang, Xiaoxing Zeng, Jianfei Yang, Debin Meng, Kaipeng Zhang, Xiaojiang Peng, Yu Qiao. 2018. **Cascade Attention Networks for Group Emotion Recognition with Face, Body and Image Cues**. 20th ACM International Conference on Multimodal Interaction, 640-645.

Kai Wang, Jianfei Yang, Da Guo, Kaipeng Zhang, Xiaojiang Peng, Yu Qiao. 2019. **Bootstrap model ensemble and rank loss for engagement intensity regression**. 21th ACM International Conference on Multimodal, 551-556.

Da Guo*, **Kai Wang***, Jianfei Yang, Kaipeng Zhang, Xiaojiang Peng, Yu Qiao. 2019. **Exploring Regularizations with Face, Body and Image Cues for Group Cohesion Prediction**. 21th ACM International Conference on Multimodal, 557-561. Equal Contribution

Sijie Ji*, **Kai Wang***, Xiaojiang Peng, Jianfei Yang, Zhaoyang Zeng, Yu Qiao. 2020. **Multiple Transfer Learning and Multi-Label Balanced Training Strategies for Facial AU Detection in the Wild**. IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops, 414-418. Equal Contribution

Junhao Liu, **Kai Wang**, Chunpu Xu, Zhou Zhao, Ruifeng Xu, Ying Shen, Min Yang. 2020 **Interactive Dual Generative Adversarial Networks for Image Captioning**. AAAI, 11588-11595.

Xingyu Fan, Zhongying Deng, **Kai Wang**, Xiaojiang Peng, Yu Qiao. 2020. **Learning Discriminative Representation For Facial Expression Recognition From Uncertainties**. IEEE International Conference on Image Processing (ICIP), 903-907.

Debin Meng, Xiaojiang Peng, **Kai Wang**, Yu Qiao. 2019. **Frame attention networks for facial expression recognition in videos**. IEEE International Conference on Image Processing (ICIP), 3866-3870.

Jianfei Yang, **Kai Wang**, Xiaojiang Peng, Yu Qiao. 2018. **Deep recurrent multi-instance learning with spatio-temporal features for engagement intensity prediction**. 20th ACM International Conference on Multimodal Interaction, 594-598.

Lianzhi Tan, Kaipeng Zhang, **Kai Wang**, Xiaoxing Zeng, Xiaojiang Peng, Yu Qiao. 2017. **Group emotion recognition with individual facial emotion CNNs and global image based CNNs**. 19th ACM International Conference on Multimodal Interaction, 549-552.

IN REVIEW

Kai Wang, Yuxin Gu, Xiaojiang Peng, Baigui Sun, Hao Li. **AU-Guided Unsupervised Domain Adaptive Facial Expression Recognition**. 2021 IEEE/CVF International Conference on Computer Vision (ICCV).

Shuo Wang*, **Kai Wang***, Xiaojiang Peng, Baigui Sun, Hao Li. **A Unified Alignment and Recognition Framework for Face Recognition with Data Uncertainty**. 2021 IEEE/CVF International Conference on Computer Vision (ICCV). Equal Contribution

Jinxing Ye, Xiaojiang Peng, Baigui Sun, **Kai Wang**, Hao Li. **Face Transformer for Clustering**. 2021 IEEE/CVF International Conference on Computer Vision (ICCV).

Intern

2020.1-7	Huawei Cloud , Huawei Technology Company	Research Intern
2020.7-	Alibaba DAMO Acadmey , Alibaba Group	Research Intern

Awards

2020	CVPR2020-AU Detection Challenge , CVPR Committee	Top3
2019	2019 National AI Challenge, Person-Reid, Top6 (6/2518) , Shenzhen Gov.	\$ 30,000
2019	2019 Garbage Classification Challenge, Top1 (1/2611) , Huawei Company	\$ 30,000
2019	2019 Emotiw V-A Emotion Recognition , ICMI	Rank 3th
2019	2019 Emotiw Group Cohesion Recognition , ICMI	Rank 2nd
2018	Pacific Earthquake Engineering Research ImageNet , PEER	Champion
2018	2018 Emotiw Engagement Recognition , ICMI	Champion
2018	2018 Emotiw Group Emotion Recognition , ICMI	Rank 2nd
2017	2017 Emotiw Group Emotion Recognition , ICMI	Champion
2016	National Entrepreneurship Competition , Zhuhai, Zhuhai Gov.	Top20