Kai Wang

Ph.D Student · Computer Science

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Education

School of Computing, National University of Singapore *Singapore*

Ph.D Student *08.2021 -*

- Advisor: Presidential Young Prof. Yang You

University of Chinese Academy of Sciences *Beijing, China*

Master of Engineering *09.2017 - 06.2020*

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

Beijing Normal University Zhuhai Campus *Zhuhai, China*

Bachelor of Engineering *09.2013 - 06.2017*

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

Publications

Published

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 Mislabeled 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 Conference on Computer Vision and Pattern Recognition (CVPR).

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 Conference on Computer Vision and Pattern Recognition (CVPR). Equal Contribution

Shuting He*, **Kai Wang***, Weihua Chen, Hao Luo, Fan Wang, Hao Li, Wei Jiang. 2021. **Generative Region-Aware Network for Person Re-Identification**. 2021 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR). Equal Contribution

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

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*