

XINGXUN JIANG

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EDUCATION

Southeast University, China

Sept. 2018 - Present

Ph.D. Candidate in Biomedical Engineering (Mar. 2021 - Present) and **M.Sc.** in Biomedical Engineering (Neural Information Engineering) (Sept. 2018 - Mar. 2021), Affective Information Processing Lab (**AIPL**), advised by **Prof. Wenming Zheng**.

Research project: Facial Expression Recognition in the Wild.

Nanjing University of Posts and Telecommunications, China

Sept. 2013 - Jun. 2017

B.Sc. in Smart Grid Information Engineering, i.e., a branch of Electrical Engineering, supervised by **Dr. Yingjun Wu**.

Thesis title: The Optimization Design of Electrical Vehicle Charging Path.

RESEARCH INTERESTS

Computer Vision: Affective Computing, Biometrics, Pattern Recognition

Machine Learning: Graph Neural Network, Deep Learning.

HONORS AND AWARDS

Excellent Volunteer, Southeast University

2021

Merit Student, Southeast University

2021

Chien-Shiung Wu BME Scholarship, Southeast University

2020

The 7th EmotiW Challenge: **1st place in Audio-Video based Emotion Recognition**

2019

The Third Prize, The 15th National Post Graduate Mathematical Contest in Modeling

2018

The **First Academic Scholarship**, Southeast University

2018

Honorable Mentioned, Mathematical Contests in Modeling (MCM/ICM)

2015

PUBLICATIONS

Google Scholar: https://scholar.google.com/citations?hl=zh-CN&user=Ls_VNecAAAAJ

Semantic Scholar: <https://www.semanticscholar.org/author/Xingxun-Jiang/1387822126>

dblp: <https://dblp.org/pid/251/0975.html>

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Top-tier Vision Conference Papers

[C1] Xingxun Jiang, Yuan Zong, Wenming Zheng, Chuangao Tang, Wanchuang Xia, Cheng Lu, and Jiateng Liu, “DFEW: A Large-Scale Database for Recognizing Dynamic Facial Expressions in the Wild”, *The ACM 28th Conference on Multimedia (ACM MM2020)*, 2020.

Other Journal Papers

[J1] Xilei Zhang, Xingxun Jiang, Xiangyong Yuan, and Wenming Zheng, “Attentional focus modulates automatic finger-tapping movements”, *Scientific Reports*, Vol.11, No.1, pp.1-13, 2021.

Other Conference Papers

[C1] Xingxun Jiang, Yuan Zong, Wenming Zheng, Jiateng Liu, Mengting Liu, “Seeking Salient Facial Regions for Cross-Database Micro-Expression Recognition”, *The 26th International Conference on Pattern Recognition (ICPR2022)*, 2022.

- [C2] Mengting Wei, Wenming Zheng, Yuan Zong, Xingxun Jiang, Cheng Lu, Jiateng Liu, “A Novel Micro-expression Recognition Approach Using Attention-based Magnification-Adaptive Networks”, *2022 International Conference on Acoustics, Speech and Signal Processing (ICASSP2022)*, 2022.
- [C3] Mengting Wei, Wenming Zheng, Xingxun Jiang, Yuan Zong, Cheng Lu, Jiateng Liu, “A Novel Magnification-Robust Network with Sparse Self-Attention for Micro-expression Recognition”, *The 26th International Conference on Pattern Recognition (ICPR2022)*, 2022.
- [C4] Xiaolin Xu, Wenming Zheng, Yuan Zong, Cheng Lu, Xingxun Jiang, “Sample Self-Revised Network for Cross-Dataset Facial Expression Recognition”, *2022 International Joint Conference on Neural Networks (IJCNN2022)*, 2022.
- [C5] Yunlong Xue, Wenming Zheng, Yuan Zong, Hongli Chang, Xingxun Jiang, “Adaptive Hierarchical Graph Convolutional Network for EEG Emotion Recognition”, *2022 International Joint Conference on Neural Networks (IJCNN2022)*, 2022.
- [C6] Sunan Li, Wenming Zheng, Yuan Zong, Cheng Lu, Chuangao Tang, Xingxun Jiang, Jiateng Liu, and Wanchuang Xia, “Bi-modality Fusion for Emotion Recognition in the Wild,” *The 21th ACM International Conference on Multimodal Interaction (ICMI2019)*, 2019.
- [C7] Wanchuang Xia, Wenming Zheng, Yuan Zong, and Xingxun Jiang, “Motion Attention Deep Transfer Network for Cross-Database Micro-Expression Recognition”, *ICPR Workshop on Facial and Body Expressions, micro-expressions and behavior recognition (FBE2020)*, 2020.

CHINESE PATENTS

Granted

- [P1] Wenming Zheng, Xingxun Jiang, Yuan Zong, and Wanchuang Xia, “A Method and A Device based on Facial Local Region Learning for Cross-Dataset Micro-Expression Recognition”. *ZL 2019 1 0706550.8*
- [P2] Wenming Zheng, Wanchuang Xia, Yuan Zong, Xingxun Jiang, Cheng Lu, and Jiateng Liu, “A Method and A Device based on Optical Flow Attention Neural Network for Cross-Dataset Micro-Expression Recognition”, *ZL 2019 1 0756936.X*.

Under Substantive Examination

- [P1] Wenming Zheng, Xingxun Jiang, Yuan Zong, and Wanchuang Xia, “A Method and A Device based on EC-STFL loss function for Dynamic Facial Expression Recognition in the Wild”, *202010831485.4*.
- [P2] Yuan Zong, Lin Jiang, Jiacheng Zhang, Wenming Zheng, Xingxun Jiang, and Jiateng Liu, “A Method and A Device based on Joint Distributed Least Squares Regression for Cross-Dataset Speech Emotion Recognition”, *202010372728.2*.
- [P3] Wenming Zheng, Yang Li, Xingxun Jiang, Yuan Zong, and Sunan Li, “A Method and A Device based on Transferable Attention Neural Network for EEG Emotion Recognition”, *202010030240.1*.
- [P4] Yuan Zong, Xingxun Jiang, Wenming Zheng, Yang Li, Cheng Lu, Chuangao Tang, and Sunan Li, “A Method and A Device based on Domain Selection Transfer Regression for Cross-Dataset Micro-Expression Recognition”, *202010030236.5*.
- [P5] Wenming Zheng, Yang Li, Xingxun Jiang, and Yuan Zong, “A Method and A Device based on Bihemispheric Difference Model for EEG Emotion Recognition”, *201911343069.3*.
- [P6] Wenming Zheng, Chongli Chang, Yuan Zong, Xingxun Jiang, Chuangao Tang, “A Method and A Device based on Space-Time Feature Fusion model for Cross-Domain EEG Emotion Recognition”, *202111560169.9*.

[P7] Wenming Zheng, Mengting Wei, Xingxun Jiang, Yuan Zong, Hongli Chang, “A Method and A Device based on Sparse Self-Attention Mechanism for Micro-Expression Recognition”, *202210196086.4*.

SOFTWARE COPYRIGHT

[S1] Wenming Zheng, Xingxun Jiang, Yuan Zong, Jiateng Liu, Chuangao Tang, Jiacheng Zhang, “AIPL’s Dynamic Facial Expression Annotating Software”, 2021SR0273805.

[S2] Wenming Zheng, Wanchuang Xia, Yuan Zong, Xingxun Jiang, Chuangao Tang, Jiateng Liu, Jiacheng Zhang, “Multi-person Facial Expression Recognition Demonstration System”, 2021SR0273738.

[S3] Wenming Zheng, Chuangao Tang, Yuan Zong, Xingxun Jiang, Jiateng Liu, “Automatic Screening System for High Risk Autism Spectrum Disorders”, 2021SR0273737.

[S4] Wenming Zheng, Jiateng Liu, Yuan Zong, Jiacheng Zhang, Xingxun Jiang, Wanchuang Xia, Chuangao Tang, “Autism Analysis System based on Human Facial Micro-Expressions”, 2021SR0272958.

[S5] Wenming Zheng, Jiacheng Zhang, Yuan Zong, Xingxun Jiang, Jiateng Liu, “Autism Analysis System based on Physiological Signals and Facial Expressions”, 2021SR0273739.

RESEARCH PROJECT

[R1] Temporal Dynamic Expression/Micro-Expression Recognition, *the National Key Research and Development Program of China under Grant 2018YFB1305200*, Participated, 2019-2022.

[R2] Action Intention and Emotion Interpretation in Advanced Brain Computer Interaction, *the National Basic Research Program of China under Grant 2015CB351704*, Participated, 2015-2019.

TEACHING ASSISTANT

Affective Computing and Artificial Intelligence

2021

ACADEMIC SERVICE

Journal Reviews

- Reviewer of IEEE Transaction on Multimedia
- Reviewer of Pattern Recognition
- Reviewer of IEEE Access

Conference Reviews

- Reviewer of International Conference on Pattern Recognition (ICPR), 2022
- Reviewer of Chinese Conference on Pattern Recognition and Computer Vision (PRCV), 2021