SU ZHANG

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EDUCATION

Ph.D. in Computer Sciences, Nanyang Technological University June, 2023
Dissertation: Multimodal Continuous Emotion Analysis [PDF]

M.E. in Computer Engineering, Yunnan Normal University, July, 2018
B.A. in Biological Chemistry, Xiamen University, June, 2013

RESEARCH EXPERIENCE

Research Fellow July, 2023 - Present
Center on Brain Computing Research, School of Computer Science and Engineering, NTU Singapore
Professor Cuntai Guan with the A Sociometric AI Screening Tool to Risk-Stratify Infant Neurodevelopmental Trajectories (STARS):

- Developed a multimodal pipeline for emotion recognition on spontaneous infant-mother interaction videos
- Analyzed infant's facial expressions w.r.t. cultural backgrounds, sexes, and ages
- Adopted the Pyannote library for speaker diarization on infant-mother interaction

PUBLICATIONS

1. **S. Zhang**, Y. Li, M. Smith, V. Leong, C. Guan, "Machine Learning based Audiovisual Emotion Recognition and Cross-cultural Analysis on Infants and Toddlers", *ACM Multimedia*, 2024, Under Review.

2. Y. Ding*, **S. Zhang***, C. Tang, C. Guan, "MASA-TCN: Multi-anchor Space-aware Temporal Convolutional Neural Networks for Continuous and Discrete EEG Emotion Recognition", *Journal of Biomedical and Health Informatics*, 2024. [PDF], [Code] (* indicates equal contribution)

3. **S. Zhang**, Z. Zhao, C. Guan, "Multimodal Continuous Emotion Recognition: A Technical Report for ABAW5", *IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshop* (Ranked 3rd), 2023. [PDF], [Code]

4. **S. Zhang**, R. An, Y. Ding, C. Guan, "Continuous Emotion Recognition Using Visual-audio-linguistic Information: A technical Report for ABAW3", *IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshop* (Ranked 2rd), 2022. [PDF], [Code]

5. **S. Zhang**, C. Tang, C. Guan, "Visual-to-EEG Cross-modal Knowledge Distillation for Continuous Emotion Recognition", *Pattern Recognition*, 2022. [PDF], [Code]

6. **S. Zhang**, W. Zhao, X. Hao, Y. Yang, C. Guan, "A Context-aware Locality Measure for Inlier Pool Enrichment in Stepwise Image Registration", *IEEE Transactions on Image Processing*, 2020. [PDF], [Code]

7. **S. Zhang**, Y. Yang, "Point Set Registration with Global-local Correspondence and Transformation Estimation", *IEEE International Conference on Computer Vision*, 2017.

TEACHING EXPERIENCE

Nanyang Technological University Singapore
Teaching Assistant Jan, 2019 - Aug, 2021
- Performed TA duties for multiple courses, including *Linear Algebra, Data Mining, Data Science and Artificial Intelligence, Digital Signal Processing*

ADDITIONAL INFORMATION

- **Independent reviewer: IEEE TGRS, IEEE TAFFC, ACMMM**
- **Programming languages & Software**: Python, Matlab
- **Languages**: Mandarin Chinese (native), English (proficient)