

Tao Pu

Ph.D. student at Sun Yat-sen University

*Sun Yat-sen University
Guangzhou, China
✉ putao537@gmail.com
📁 putao537.github.io*

Education

- 2020–Present **Sun Yat-sen University (SYSU)**, *Guangzhou, China*.
Doctor of Philosophy, School of Computer Science and Engineering
◦ Advisor: Professor Liang Lin
◦ Major in Computer Science
- 2016–2020 **Sun Yat-sen University (SYSU)**, *Guangzhou, China*.
Bachelor of Science, School of Computer Science and Engineering
◦ Major in Information Security

Experience

- Sep 2023 **Cognitive Reasoning (CoRe) Lab**, *Peking University (PKU)*.
-Present Visiting Student
◦ Protocol-guided Biology Video Understanding, Advisor: Dr. Yixin Zhu
- Feb 2019 **DMAI Inc. (an AI startup)**, *Guangzhou, China*.
-May 2020 Research Intern
◦ Cross-domain Facial Expression Recognition

Awards and Scholarships

- 2018 **Undergraduate National Scholarship**, Ministry of Education of China

Publications

Selected Journals

- TIP 2024 **Spatial-Temporal Knowledge-Embedded Transformer for Video Scene Graph Generation.**
Tao Pu, Tianshui Chen, Hefeng Wu, Yongyi Lu, Liang Lin
IEEE Transactions on Image Processing (IEEE TIP), 2024.
- TMM 2024 **Category-Adaptive Label Discovery and Noise Rejection for Multi-label Recognition with Partial Positive Labels.**
Tao Pu, Qianru Lao, Hefeng Wu, Tianshui Chen, Ling Tian, Jie Liu, Liang Lin
IEEE Transactions on Multimedia (IEEE TMM), 2024.
- TPAMI 2022 **Cross-Domain Facial Expression Recognition: A Unified Evaluation Benchmark and Adversarial Graph Learning.**
ESI Highly Cited
Tianshui Chen, Tao Pu, Hefeng Wu, Yuan Xie, Lingbo Liu, Liang Lin
IEEE Transactions on Pattern Analysis and Machine Intelligence (IEEE TPAMI), 2022.

Selected Conference

- AAAI 2022 **Semantic-Aware Representation Blending for Multi-Label Image Recognition with Partial Labels.**
Tao Pu, Tianshui Chen, Hefeng Wu, Liang Lin
36th Association for the Advance of Artificial Intelligence (AAAI), 2022.
- ICRA 2021 **AU-Expression Knowledge Constrained Representation Learning for Facial Expression Recognition.**
Tao Pu, Tianshui Chen, Yuan Xie, Hefeng Wu, Liang Lin
IEEE International Conference on Robotics and Automation (ICRA), 2021.
- AAAI 2022 **Structured Semantic Transfer for Multi-Label Recognition with Partial Labels.**
Tianshui Chen, Tao Pu, Hefeng Wu, Yuan Xie, Liang Lin
36th Association for the Advance of Artificial Intelligence (AAAI), 2022.
- ACM MM
2020 **Adversarial Graph Representation Adaptation for Cross-Domain Facial Expression Recognition.**
Oral Yuan Xie, Tianshui Chen, Tao Pu, Hefeng Wu, Liang Lin
Proceedings of the 28th ACM International Conference on Multimedia (ACM MM), 2020.

Academic Activities

Journal reviewer

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
IEEE Transactions on Neural Networks and Learning Systems (TNNLS)
IEEE Transactions on Knowledge and Data Engineering (TKDE)

Conference Reviewer

International Conference on Learning Representations (ICLR)
IEEE Conference on Computer Vision and Pattern Recognition (CVPR)
Advances in Neural Information Processing Systems (NeurIPS)
International Conference on Machine Learning (ICML)
International Joint Conference on Artificial Intelligence (IJCAI)
ACM International Conference on Multimedia (ACM MM)