

Tao Pu

Ph.D. student at Sun Yat-sen University

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Education

- 2020–Present **Sun Yat-sen University (SYSU)**, *Guangzhou, China*.
Ph.D. in Computer Science, Advisor: Prof. *Liang Lin*
- 2016–2020 **Sun Yat-sen University (SYSU)**, *Guangzhou, China*.
B.E. in Information Security

Experience

- Sep 2023 **Cognitive Reasoning (CoRe) Lab**, *Peking University (PKU)*.
-Present Visiting Student, Advisor: Dr. *Yixin Zhu*

Awards and Scholarships

- 2024 **National Scholarship for Doctoral Students**, *China*
2018 **National Scholarship for Undergraduate Students**, *China*

Publications

Journal Papers

- TIP 2023 **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, 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, 2024.
- IJCV 2024 **Heterogeneous Semantic Transfer for Multi-label Recognition with Partial Labels.**
Tianshui Chen*, Tao Pu*, Lingbo Liu, Yukai Shi, Zhijing Yang, Liang Lin
International Journal of Computer Vision, 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, 2022.
- TIP 2024 **Dynamic Correlation Learning and Regularization for Multi-Label Confidence Calibration.**
Tianshui Chen, Weihang Wang, Tao Pu, Jinghui Qin, Jie Liu, Liang Lin
IEEE Transactions on Image Processing, 2025.

Conference Papers

- 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, 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, 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, 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, 2020.

Academic Activities

Journal reviewer on

TPAMI, TNNLS, TKDE, TOMM

Conference Reviewer on

ICLR, CVPR, NeurIPS, ICML, IJCAI, ACM MM, AAI