

## Assistant Professor TIAN, JINYU

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### Academic Qualification

2017.08 - 2022.01 University of Macau, Macau, China, Ph.D., Computer Science.

2014.09 - 2017.07 Chongqing University, Chongqing, China, M.S., Mathematics.

2010.09 - 2014.07 Chongqing University, Chongqing, China, B.S., Mathematics.

### Teaching Area

Computer Programming, Data Science, Optimization Method

### Research Area

Adversarial Machine Learning: Adversarial Detection, Evasion Attack, Poisoning Attack.

Information Forensics and Security: Protection of Deep Models, Watermarking, AIGC

Detection, Forgery Detection

Subspace Learning: Subspace Manifold Representation, Robust Subspace Learning.

### Working Experience

Assistant Professor, School of Computer Science and Engineering, Faculty of Innovation Engineering, Macau University of Science and Technology, Macau, China, 09/2023 – Present.

### Academic Publication

1. **J. Y. Tian**, T. P. Zhang, A. Y. Qin, Z. W. Shang, and Y. Y. Tang, "Learning the Distribution Preserving Semantic Subspace for Clustering", IEEE Transactions on Image Processing, 2017.

(ICR: Q1; CCF: A)

2. **J. Y. Tian**, J. T. Zhou, and J. Duan, "Probabilistic Selective Encryption of Convolutional Neural Networks for Hierarchical Services", IEEE Conference on Computer Vision and Pattern

Recognition, 2021. (CCF: A)

3. **J. Y. Tian**, J. T. Zhou, Y.M. Li, and J. Duan, "Detecting Adversarial Examples from Sensitivity Inconsistency of Spatial-Transform Domain", Thirty-Fifth AAAI Conference on Artificial Intelligence, 2021. (CCF: A)

4. **J. Y. Tian**, J. T. Zhou, and J. Duan, "Providing Hierarchical Services of Convolutional Neural Networks via Probabilistic Selective Encryption", IEEE Transactions on Services Computing, 2021. (JCR: Q1; CCF: A)

5. Y. M. Chen, **J. Y. Tian**, X. Y. Chen, and J. T. Zhou, "Effective Ambiguity Attack Against Passport-based DNN Intellectual Property Protection Schemes through Fully Connected Layer Substitution", In Proc. of IEEE Conference on Computer Vision and Pattern Recognition, 2023 (CCF-A).

6. J. C. Deng, L. Dong, J. Chen, D. Yan, R. Wang, D. Ye, L. Zhao, **J. Y. Tian**, "Universal Defensive Underpainting Patch: Making Your Text Invisible to Optical Character Recognition", In Proc. of ACM International Conference on Multimedia, 2023 (CCF-A).

7. H. W. Wu, J. T. Zhou, **J. Y. Tian**, J. Liu, and Yu Qiao, "Robust Image Forgery Detection against Transmission over Online Social Networks", IEEE Transactions on Information Forensics and Security, 2022. (CCF: A)
8. W. W. Sun, and J. T. Zhou, L. Dong, **J. Y. Tian**, J. Liu, "Optimal Pre-filtering for Improving Shared Images in Online Social Networks", IEEE Transactions on Image Processing, 2017. (JCR: 9.0)
9. Y. M. Li, J. T. Zhou, **J. Y. Tian**, X. W. Zheng and Y. Y. Tang, "Weighted Error Entropy based Information Theoretic Learning for Robust Subspace Representation", IEEE Transactions on Neural Networks and Learning Systems, 2021. (JCR: Q1; CCF: B)
10. Y. M. Li, J. T. Zhou, X. W. Zhen, **J. Y. Tian**, and Y. Y. Tang. "Robust Subspace Clustering with Independent and Piecewise Identically Distributed (i.p.i.d.) Noise Modeling", IEEE Conference on Computer Vision and Pattern Recognition, 2021. (CCF: A; Oral, AR 5.6%)

### Professional Certification and Awards

1. Natural Science Award, the Third Prize, Macau, 2022.
2. Area Chair of International Conference on Multimedia Engineering, 2023.
3. Session chair of International Conference on Wavelet Analysis and Pattern Recognition.
4. Reviewer of journals and conferences, including  
IEEE Trans. on Image Processing  
IEEE Trans. on Multimedia  
International Journal of Pattern Recognition and Machine Learning