TianJing Zhang

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🎓 Education

University of Electronic Science and Technology of China, Sichuan, China   09/2018 – 06/2022

Bachelor of Mathematics and Physics Basic Science in **Yingcai Honors College**

GPA: 3.97/4.00   **Ranked 1/23 (Junior Year)**   **Average Score: 91.2**   CET4: 600   CET6: 536

✹ Honors and Awards

National Scholarship	2020
Outstanding Students' Scholarship of UESTC	2019 & 2020
Excellent class member of UESTC	2019 & 2020
Honorable Mention, *Mathematical Contest In Modeling*	2020
First Prize in Sichuan Province, *China Undergraduate Mathematical Contest in Modeling*	2020
Third prize, *Southwest Hackathon Coding Contest*	2020
Third prize, *"Innovation Creavitivity Entrepreneurship" Competition*	2021
Yunhui Award Special Finalist, *College Student Innovation and Entrepreneurship Program in UESTC*	2021

👥 Research Experience

Image processing and machine learning   09/2019 – Present

Based on the traditional optimization method or deep learning method, the research is carried out in the direction of multi-source image fusion and image reconstruction   Studying with Prof. LiangJian Deng, School of Mathematical Sciences, UESTC

Project: Pulmonary nodule detection based on deep learning   03/2021 – 06/2021

Building a multi-scale gradual integration convolutional neural network for pulmonary nodule detection   Studying with Prof. ZhenMing Peng, School of Information and Communication Engineering, UESTC

Project: Path prediction of substation patrol route   02/2021 – 01/2021

Established a path prediction model and designed the neural network based on attention mechanism to realize the path prediction of substation staff   Working with Prof. Liang Li, School of Mathematical Sciences, UESTC

Attend the 4th International Conference in Biolinguistics   2019

Project: Redox reaction simulation of fuel cell   09/2018 – 09/2019

Reasearsh on the oxidation reaction inside the battery by using the software COMSOL.   Working with Prof. TingShuai Li, School of Materials and Energy, UESTC

♡ Journal AND Conference

1. **Tianjing Zhang**, LiangJian Deng, Ting-Zhu Huang, Gemine Vivone and Jocelyn Chanussot. "Pansharpening via Triple-Double convolutional neural network." Submitted to IEEE Transactions on Neural Networks and Learning Systems (TNNLS).**(Major Revision)**

2. **Tianjing Zhang**, LiangJian Deng, ZhongCheng Wu and ChaoChao Zheng "An iterative approach for image fusion with dynamic gradient sparsity and anisotropic spectral-spatial total variation." Submitted to Signal, Image and Video Processing. **(Major Revision)**

3. ZiRong Jin, **TianJing Zhang**, Cheng Jin and LiangJian Deng. "Weighted shallow-deep feature fusion network for pansharpening." In 2021 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2021). **(Accepted)**

4. ShiShi Xiao, Cheng Jin, **TianJing Zhang**, Ran Ran and LiangJian Deng. "Progressice band- convolutional neural network for pansharpening." In IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2021). **(Accepted)**

5. YuDong Wang, LiangJian Deng, and **TianJing Zhang**."SSconv: Explicit Spectral-to-Spatial Convolution for Pansharpening." Submitted to 2021 ACM International Conference on Multimedia (ACM MM 2021). **(Accepted)**

6. ZiRong Jin, LiangJian Deng, **TianJing Zhang** and XiaoXu Jin."BAM: Bilateral Activation Mechanism for Image Fusion." Submitted to ACM MM 2021. **(Accepted)**

7. Wu Xiao, TingZhu Huang, LiangJian Deng and **TianJing Zhang**. "Dynamic Cross Feature Fusion for Remote Sensing Pansharpening" Submitted to 2021 IEEE International Conference on Computer Vision (ICCV 2021). **(Accepted)**

8. **TianJing Zhang**, ZiRong Jin, LiangJian Deng, and TaiXiang Jiang. "Title unavailable due to Non-disclosure Agreement." Submitted to AAAI Conference on Artificial Intelligence (AAAI 2022)

9. **TianJing Zhang**, LiangJian Deng, TingZhu Huang, and BiHan Wen. "Title unavailable due to Non-disclosure Agreement." Submitted to AAAI Conference on Artificial Intelligence (AAAI 2022)

10. Xiao Wu, TingZhu Huang, **TianJing Zhang**, and LiangJian Deng. "Title unavailable due to Non-disclosure Agreement." Submitted to AAAI Conference on Artificial Intelligence (AAAI 2022)

11. ZiRong Jin, YuWei Zhuo, **TianJing Zhang**, XiaoXu Jin and LiangJian Deng."Parallel Full Depth Feature Fusion Network for Pansharpening."Submitted to IEEE Transactions on Geoscience and Remote Sensing

♡ Academic Activities

Peer Review: IEEE Transactions on Geoscience and Remote Sensing (IEEE TGRS)

Peer Review: IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (IEEE JSTARS)

Video Presentation: Record video report on ACM Multimedia 2021

♡ Working Experience

Supervising student of Basic Mathematics and Physics Class	2020 & 2021
Student Assistant of Yingcai Honors College	2019, 2020 &2021
Psychological Committee	2020 & 2019
Psychological Director of the College	2020 & 2019
Student Assistant of the Youth League Committee	2018

👥 Professional Course Grade

Mathematics and creativity:	97	Advanced Programming Language:	97	Artificial Intelligence:	95
Probability and Statistics:	95	Complex Function:	95	Discrete Mathematics:	94
Mathematical Modeling:	94	Machine Learning:	93	Advanced Calculus:	92

👥 Skills

Programming: MATLAB, Python (Pytorch, Tensorflow), C language, SQL, COMSOL

Research software: LaTex, PowerPoint, Excel, Word, Origin