

A portrait of a man with short black hair and glasses, wearing a light blue button-down shirt and khaki pants. He is standing outdoors in a park-like setting with a pond, trees, and a traditional building in the background.

## 工作经历

讲师

## 澳门青年学者

博士研究生

国家公派联合培养

本科生

交流生

- 遥感影像处理
- 模式识别
- 计算机视觉
- 机器学习

## 2020 年 07 月 - 至今

主持

2021 年 01 月 - 至今

主持

1. Yuntao Qian, **Fengchao Xiong**, Shan Zeng, Jun Zhou, Yuan Yan Tang. "Matrix-Vector Nonnegative Tensor Factorization for Blind Unmixing of Hyperspectral Imagery", *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, vol. 55, no. 3, pp. 1776-1792, 2017.
2. **Fengchao Xiong**, Jingzhou Chen, Jun Zhou, Yuntao Qian. "Superpixel-Based Non-negative Tensor Factorization for Hyperspectral Unmixing", *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 2018.
3. **Fengchao Xiong**, Jun Zhou, Yuntao Qian. "Hyperspectral Imagery Denoising via Reweighted Sparse Low-Rank Nonnegative Tensor Factorization", *IEEE International Conference on Image Processing (ICIP)*, 2018.
4. Kun Qian, Jun Zhou, **Fengchao Xiong**, Huixin Zhou, Juan Du. "Object Tracking in Hyperspectral Videos with Convolutional Features and Kernelized Correlation Filter", *International Conference on Smart Multimedia (ICSM)*, 2018.
5. **Fengchao Xiong**, Yuntao Qian, Jun Zhou, Yuan Yan Tang. "Hyperspectral Unmixing via Total Variation Regularized Nonnegative Tensor Factorization", *IEEE Transactions on Geoscience and Remote Sensing*, vol. 57, no. 4, pp. 2341-2357, 2019.

6. **Fengchao Xiong**, Jun Zhou, Yuntao Qian. "Hyperspectral Restoration via  $L_0$  Gradient Regularized Low-Rank Tensor Factorization", *IEEE Transactions on Geoscience and Remote Sensing*, vol. 57, no. 12, pp. 10410-10425, 2019.
7. **Fengchao Xiong**, Jun Zhou, Yuntao Qian, Jocelyn Chanussot. "Dynamic Material-Aware Object Tracking in Hyperspectral Videos", *IEEE Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing (WHISPERS)*, 2019.
8. Qipeng Qian, **Fengchao Xiong**, Jun Zhou. "Deep Unfolded Iterative Shrinkage-Thresholding Model for Hyperspectral Unmixing", *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 2019.
9. **Fengchao Xiong**, Jun Zhou, Yuntao Qian. "Material Based Object Tracking in Hyperspectral Videos", *IEEE Transactions on Image Processing*, vol. 29, no. 1, pp. 3719-3733, 2020.
10. Yuntao Qian, **Fengchao Xiong**, Qipeng Qian, Jun Zhou. "Spectral Mixture Model Inspired Network Architectures for Hyperspectral Unmixing", *IEEE Transactions on Geoscience and Remote Sensing*, vol. 58, no. 10, pp. 7418-7434, 2020.
11. **Fengchao Xiong**, Kun Qian, Jianfeng Lu, Jun Zhou, Yuntao Qian. "Nonlocal Low-rank Nonnegative Tensor Factorization for Hyperspectral Unmixing", *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 2020.
12. Xinhai Ye, **Fengchao Xiong\***, Jianfeng Lu, Haifeng Zhao, Jun Zhou. "M2-Net: A Multi-scale Multi-level Feature Enhanced Network for Object Detection in Optical Remote Sensing Images", *International Conference on Digital Image Computing: Techniques and Applications (DICTA)*, 2020. (Best Student Paper)
13. Zhuanfeng Li, **Fengchao Xiong\***, Jun Zhou, Jing Wang, Jianfeng Lu, Yuntao Qian. "BAE-Net: A Band Attention Aware Ensemble Network for Hyperspectral Object Tracking", *IEEE International Conference on Image Processing (ICIP)*, 2020.
14. **Fengchao Xiong**, Jun Zhou, Jianfeng Lu, Yuntao Qian. "Non-convex Non-separable Sparse Nonnegative Matrix Factorization for Hyperspectral Unmixing", *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS)*, 2020.
15. Xinhai Ye, **Fengchao Xiong\***, Jun Zhou, Jianfeng Lu, Yuntao Qian. " $\mathcal{F}^3$ -Net: Feature Fusion and Filtration Network for Object Detection in Optical Remote Sensing Images", *Remote Sensing*, 2020.
16. Jianxi Wang, Minchao Ye, **Fengchao Xiong**, Yuntao Qian. "Cross-scene hyperspectral feature selection via hybrid whale optimization algorithm with simulated annealing", *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS)*, 2021.
17. **Fengchao Xiong**, Jun Zhou, Minchao Ye, Jianfeng Lu, Yuntao Qian. "NMF-SAE: An interpretable sparse autoencoder for hyperspectral unmixing", *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2021.
18. Zhuanfeng Li, Xinhai Ye, **Fengchao Xiong\***, Jianfeng Lu, Jun Zhou, Yuntao Qian. "Spectral-Spatial-Temporal Attention Network for Hyperspectral Tracking", *IEEE Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing (WHISPERS)*, 2021.
19. Yiman Fuguan, **Fengchao Xiong\***, Shuyin Tao, Jianfeng Lu, Jun Zhou, Yuntao Qian. "Learning a model-based deep hyperspectral denoiser from a single noisy hyperspectral image", *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 2021.
20. **Fengchao Xiong**, Jun Zhou, Shuyin Tao, Jianfeng Lu, Yuntao Qian. "SNMF-Net: Learning a Deep Alternating Neural Network for Hyperspectral Unmixing", *IEEE Transactions on Geoscience and Remote Sensing*, 2021.
21. **Fengchao Xiong**, Jun Zhou, Shuyin Tao, Jianfeng Lu, Jiantao Zhou, Yuntao Qian. "SMDS-Net: Model Guided Spectral-Spatial Network for Hyperspectral Image De-

- noising”, *IEEE Transactions on Image Processing* (小修), 2021.
22. **Fengchao Xiong**, Jun Zhou, Qinling Zhao, Jianfeng Lu, Yuntao Qian. ”MAC-Net: Model Aided Nonlocal Neural Network for Hyperspectral Imagery Denoising”, *IEEE Transactions on Geoscience and Remote Sensing* (录用), 2021.
  23. Minchao Ye, Junbin Chen, **Fengchao Xiong**, Yuntao Qian. Learning a deep structural subspace across hyperspectral scenes with cross-domain VAE”, *IEEE Transactions on Geoscience and Remote Sensing* (录用), 2021.
  24. Zhuangeng Li, **Fengchao Xiong**, Jun Zhou, Jianfeng Lu, Yuntao Qian. ”Learning a Deep Ensemble Network for Hyperspectral Object Tracking”, *IEEE Transactions on Image Processing* (在投), 2021.
  25. Shide Zou, **Fengchao Xiong**, Haonan Luo, Jianfeng Lu, Yuntao Qian. ”Learning a Deep Ensemble Network for Hyperspectral Object Tracking”, *International Conference on Digital Image Computing: Techniques and Applications(DICTA)*, 2021.

## 社会、学会及学术兼职

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### 审稿人:

1. IEEE Transactions on Image Processing (TIP)
2. IEEE Transactions on Multimedia (TMM)
3. IEEE Transactions on Geoscience and Remote Sensing (TGRS)
4. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS)
5. IEEE Journal of Selected Topics in Signal Processing (JSTSP)
6. Pattern Recognition (PR)
7. IEEE Geoscience and Remote Sensing Society Letters
8. Geo-spatial Information Science
9. Remote Sensing
10. Sensors
11. Knowledge Based System
12. Neural Processing Letters
13. International Journal of Remote Sensing
14. IET Computer Vision
15. IET Image Processing
16. IEEE International Conference on Multimedia and Expo (ICME), 2021
17. International Conference on Digital Image Computing: Techniques and Applications(DICTA), 2020, 2021
18. AAAI Conference on Artificial Intelligence 2021
19. 中国图形图象学报
20. 信号处理学报

### 学会:

1. IEEE 会员
2. 中国电子学会会员
3. 江苏省人工智能学会会员

## 荣誉奖项

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关于 DIGIX 大赛江苏赛区亚军 (指导教师)	2021.9
澳门青年学者	2021.8
高光谱目标跟踪挑战赛第二名 (指导教师)	2021.3

DICTA 2020 最佳学生论文 (指导教师)	2020.11
浙江大学优秀博士奖学金	2018.11
浙江大学优秀研究生	2017.9
山东大学第二校园奖学金	2012.9
山东大学优秀学生奖学金	2012.9
国家励志奖学金	2011.9
山东大学优秀学生奖学金	2011.9