Fengchao Xiong

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Education

Zhejiang University, Hangzhou, Zhejiang.   2014.9-2019.9
Ph.D in College of Computer Science
Supervisor: Prof. Yuntao Qian.

Griffith University, Nathan, Queensland.   2017.11-2018.12
Visiting Student Supported by China Scholarship Council (CSC).
Supervisor: Prof. Jun Zhou.

Shandong University, Jinan, Shandong.   2010.9-2014.6
B.E in School of Software

Wuhan University, Wuhan, Hubei.   2011.9-2012.6
Exchange Student in International School of Software.

Working experience

Ministry of Industry and Information Technology, Beijing   2024.01-
Secondment in High and New Technology Division

Nanjing University of Science and Technology, Nanjing, Jiangsu.   2019.10-2022.06
Lecturer in School of Computer Science and Engineering

University of Macau, Macau, China.   2021.12-2023.11
Postdoc in State Key Laboratory of Internet of Things for Smart City
Supervisor: Prof. Jiantao Zhou.

Research

- Hyperspectral Computer Vision： Denoising; Reconstruction; Tracking; Detection
- Remote Sensing Image Analysis： Road Extraction; Object Detection;Change Detection;Segmentation
- Machine Learning： Deep Learning; Matrix/Tensor Decomposition; Foundation Models

Projects

- Fengchao Xiong (PI), Remote Sensing Image Restoration, Aerospace Information Research Institute, 2025.1 – 2025.12
- Fengchao Xiong (PI), Hyperspectral Object Detection, Shenzhen University, 2023.12 – 2024.12, 20,0000 RMB
- Fengchao Xiong (PI), Intelligent Extraction, Fusion Enhancement and Robust Representation of Semantic Features in Cross-modal Remote Sensing Images, Open Fund of Intelligent Control Laboratory, 2024.1 – 2025.12, 15,0000 RMB
- Fengchao Xiong (Co-PI), Highly sensitive and high-resolution XXXX evaluation technique based on visual perception, 173 Project , 2023.12 – 2025.1, 20,0000 RMB
- Fengchao Xiong (PI),Physical-information Constrained Neural Network for Hyperspectral Image Denoising， Natural Science Foundation of China , 2024.01 – 2027.12, 49,0000 RMB
- Fengchao Xiong (PI),Material-information Guided Spatial-Spectral-Temporal Tracking in Hyperspectral Videos, Fundamental Research Funds for the Central Universities, 2023.08-2026.08, 20,0000 RMB
- Fengchao Xiong (PI), Deep Learning-based Natural Element Change Detection， State Key Laboratory of Geo-Information Engineering, 2023.07 – 2024.07, 3,0000 RMB

- Fengchao Xiong (PI), Tensor based spatial-spectral-temporal appearance modeling for hyperspectral object tracking, National Natural Science Foundation of China, 2021.01-2023.12, 240,000 RMB
- Fengchao Xiong (PI), Model-driven deep learning for hyperspectral imagery denoising, Jiangsu Provincial Natural Science Foundation of China, 2020.07-2023.07, 200,000 RMB

HONORS AND AWARDS

National Second Prize of the DIGIX AI Challenge   2024.11

National Second Prize of the Challenge Cup   2024.11

Youth Science and Technology Award of the 2024 Jiangsu Information Technology Application Society
2024.10

Third Prize of the 2023 Ningxia Autonomous Region Science and Technology Progress Award   2024.7

DIGIX 5th Global Campus Algorithmic Elite Artificial Intelligence Competition Provincial Outstanding Instructor (Undergraduate Group)   2023.12

National Second Prize in the First National Artificial Intelligence Application Scenario Innovation Challenge 2023 (Instructor)   2023.12

Outstanding Supervisor at the 2023 Graduate Student Academic Forum of the "Journal of Remote Sensing"   2023.11

First Prize in the 5th China Graduate Student Artificial Intelligence Innovation Competition   2023.09

Best Reviewer of IEEE TGRS 2022   2023.04

Best Paper Award on Deep Learning for Earth Observation and Remote Sensing@DICTA 2021   2021.12

Second Place of DIGIX Global AI Challenge@Jiangsu Chapter   2021.09

Macau Young Scholar   2021.8

Second Place of Hyperspectral Object Tracking@WHISPERS   2021.3

DICTA Best Student Paper   2020.12

Excellent Research Assistant   2018.11

Excellent Graduate Student   2017.9

Excellent Exchange Student Scholarship   2012.9

Excellent Student Awards   2012.9

National Aspiration Scholarship   2011.9

Excellent Student Awards   2011.9

PROFESSIONAL ACTIVITIES

Reviewer:

- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- International Journal of Computer Vision (IJCV)
- IEEE Transactions on Signal Processing (TSP)
- IEEE Transactions on Image Processing (TIP)
- IEEE Transactions on Neural Networks and Learning Systems (TNNLS)
- IEEE Transactions on Multimedia (TMM)
- IEEE Transactions on Geoscience and Remote Sensing (TGRS)
- ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM)
- IEEE Transactions on Cybernetics (TCYB)
- IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)

- IEEE Transactions on Instrumentation and Measurement (TIM)
- IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS)
- IEEE Journal of Selected Topics in Signal Processing (JSTSP)
- Pattern Recognition (PR)
- IEEE Geoscience and Remote Sensing Society Letters (GRSL)
- Remote Sensing
- Knowledge Based System
- Neural Processing Letters
- International Journal of Remote Sensing
- IET Computer Vision
- IET Image Processing
- AAAI Conference on Artificial Intelligence, 2022, 2023
- IEEE International Conference on Multimedia and Expo (ICME), 2021, 2022, 2023, 2024
- IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2022, 2023, 2024
- IEEE International Conference on Image Processing (ICIP), 2022, 2023, 2024
- International Conference on Digital Image Computing: Techniques and Applications(DICTA), 2020, 2021, 2022
- IEEE International Geoscience and Remote Sensing Symposium (IGARSS), 2023, 2024

Volunteer: The 11th IAPR International Conference on Biometrics (ICB 2018, CCF C)
Publicity Chair: International Conference on SMART MULTIMEDIA, 2022 (ICSM 2022)
Area Chair: IEEE International Conference on Multimedia and Expo, 2023 (ICME 2023, CCF B)
Organizer: Hyperspectral Object Tracking Challenge, 2020, 2022, 2023, 2024
Topical Associate Editor: IEEE Transactions on Geoscience and Remote Sensing   2023.06-
Guest Editor: IET Computer Vision (IET CV, CCF C) for Special Issue "Spectral Imaging Powered Computer Vision" Deadline is 31 March 2023.
Lead Guest Editor: Remote Sensing for Special Issue "Hyperspectral Object Tracking". Deadline is 15 August 2023.
Review Editor of Frontiers in Imaging.

PUBLICATIONS

1. Zhuanfeng Li, **Fengchao Xiong***, Jianfeng Lu, Jing Wang, Diqi Chen, Jun Zhou, Yuntao Qian. "Towards Universal Representation Learning for Multi-domain Hyperspectral Object Tracking", *Pattern Recognition (PR)*, 2025.
2. Xin Ke, Jing Han, Zijian Wu, Jun Lu, Lianfa Bai, Shuaifeng Gong, Yan Zhang, Yong Peng, **Fengchao Xiong**, Duan Wei "Single-frame multi-exposure image fusion via narrowband filter decoupled imaging ", *Neurocomputing*, 2025.
3. Zhuang Zhao*, Yan Zhang, Jing Han, Lianfa Bai, **Fengchao Xiong**, Jun Lu, Shuaifeng Gong, Xin Ke, Shaoxuan Jiang "Self-supervised constrained super-resolution fast coded spectral imaging system ", *Optics Express (OE)*, 2025.
4. Yunfei Xu, Minchao Ye, **Fengchao Xiong**, Yuntao Qian. "Cross-domain Hyperspectral Image Classification Based on Feature Disentanglement'" *IEEE International Symposium on Geoscience and Remote Sensing (IGARSS, Under Review)*, 2025.
5. Mohammad Aminul Islam, **Fengchao Xiong**, Jun Zhou, Wangzhi Xing, Dong Bao, Yongsheng Gao. "HOT-Review: A Comprehensive Review on Recent Advances on Hyperspectral Object Tracking'" *Artificial Intelligence Review (Under Review)*, 2025.
6. Favour Ekong, **Fengchao Xiong**, Yongsheng Gao , Jun Zhou. "Hyperspectral Imaging for Biomedical Applications: Trends and Future Directions'" *Artificial Intelligence Review (Under Review)*, 2025.
7. Jingzhou Chen, **Fengchao Xiong***, Yuntao Qian, Liang Xiao. "Hierarchical Multi-Granularity Ship Classification Using Hierarchical Constrastive Learning with Learnable Class Quires", *IEEE Transactions on*

Geoscience and Remote Sensing (TGRS, Major Revision), 2025.

8. Zhuang Zhao*, Yan Zhang, Jing Han, **Fengchao Xiong**, Jun Lu, Long Zhang "Physics-guided Super-resolution Compressed Encoding Spectral Imaging System ", *Optics and Lasers in Engineering (OLEN, Under Review)*, 2025.

9. **Fengchao Xiong***, Yongle Sun, Jun Zhou, Jianfeng Lu, Yuntao Qian. "Spatial-Spectral-Temporal Correlation Filter for Hyperspectral Object Tracking", *IEEE Transactions on Geoscience and Remote Sensing(TGRS, Major Revision)*, 2025.

10. **Fengchao Xiong***, Zhenxing Wu, Jun Zhou, Sen Jia, Yuntao Qian. "SUIT: Spatial-Spectral Union-Intersection Interaction Network for Hyperspectral Object Tracking" *IEEE Transactions on Image Processing (TIP, Under Review)*, 2025.

11. Shou Feng, Rui Feng, **Fengchao Xiong**, Chunhui Zhao, Wei Li, Ran Tao. "A Transformer-Based Cross-Domain Few-Shot Learning Method for Hyperspectral Target Detection", *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, 2024.

12. Minchao Ye, Jiawei Ling, **Fengchao Xiong***, Yuntao Qian. "Discriminative Vision Transformer for Heterogeneous Cross-Domain Hyperspectral Image Classification", *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, 2024.

13. Jin Ye,**Fengchao Xiong***, Jun Zhou, Yuntao Qian. "Iterative Low-rank Network for Hyperspectral Image Restoration", *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, 2024.

14. Guanyiman Fu, **Fengchao Xiong***, Jianfeng Lu, Jun Zhou, Yuntao Qian. "SSUMamba: Spatial-Spectral Selective State Space Model for Hyperspectral Image Denoising", *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, 2024.

15. **Fengchao Xiong**, Tianhan Li, Yi Yang, Jianfeng Lu, Jun Zhou, Yuntao Qian. "Wavelet Siamese Network with Semi-supervised Domain Adaptation for Change Detection in Remote Sensing Images", *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, 2024.

16. Guanyiman Fu, **Fengchao Xiong***, Jianfeng Lu, Jun Zhou, Jiantao Zhou, Yuntao Qian. "Hyperspectral Image Denoising via Spatial-Spectral Recurrent Transformer", *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, 2024.

17. Zhuanfeng Li, **Fengchao Xiong***, Jun Zhou, Jianfeng Lu, Zhuang Zhao, Yuntao Qian. "Material-Guided Multi-View Fusion Network for Hyperspectral Object Tracking", *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, 2024.

18. **Fengchao Xiong**, Tianhan Li, Jingzhou Chen, Jun Zhou, Yuntao Qian. "Mask-Guided Local-Global Attentive Network for Change Detection in Remote Sensing Images", *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS), ESI highly cited paper*, 2024.

19. Di Hu, Xia Yuan, Huiying Xi, Jie Li, Zhenbo Song, **Fengchao Xiong**, Kai Zhang, Chunxia Zhao. "Road Structure Based Ground-to-Aerial Pose Estimation", *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS)*, 2024.

20. Minchao Ye, Junbin Chen, **Fengchao Xiong***, Yuntao Qian. "Adaptive graph modeling with self-training for heterogeneous cross-scene hyperspectral image classification ", *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, 2024.

21. Yijun Zhang, **Fengchao Xiong**, Jianfeng Lu, Minchao Ye, Jun Zhou, Yuntao Qian. "Semantic-Aware Alignment Network for Cross-resolution Change Detection" *IEEE International Symposium on Geoscience and Remote Sensing (IGARSS)*, 2024.

22. **Fengchao Xiong***, Yongle Sun, Jun Zhou, Jianfeng Lu, Yuntao Qian. "Spatial-Spectral-Temporal Correlation Filter for Hyperspectral Object Tracking", *IEEE Transactions on Geoscience and Remote Sensing(TGRS, Major Revision)*, 2024

23. Jingzhou Chen, **Fengchao Xiong***, Yuntao Qian, Liang Xiao. "Hierarchical Multi-Granularity Ship Classification Using Hierarchical Constrastive Learning with Learnable Class Quires", *IEEE Transactions on Geoscience and Remote Sensing (TGRS, Under Review)*, 2024.

24. Jun Zhou, **Fengchao Xiong**, Lei Tong, Naoto Yokoya, Pedram Ghamisi. "Guest Editorial: Spectral Imaging Powered Computer Vision", *IET Computer Vision*, 2023.

25. **Fengchao Xiong**, Jun Zhou, Jiantao Zhou, Jianfeng Lu,Yuntao Qian. "Deep Parameterized Neural Networks for Hyperspectral Image Denoising", *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, 2023.

26. Minchao Ye, Chenglong Wang, Zhihao Meng, **Fengchao Xiong**, Yuntao Qian. "Domain-invariant attention network for transfer learning between cross-scene hyperspectral images", *IET Computer Vision*, 2023.

27. **Fengchao Xiong**, Jiantao Zhou, Jun Zhou, Jianfeng Lu, Yuntao Qian. "Multitask Sparse Representation Inspired Network for Hyperspectral Image Denoising", *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, 2023.

28. Zhuanfeng Li, **Fengchao Xiong***, Jun Zhou, Jianfeng Lu, Yuntao Qian. "Learning a Deep Ensemble Network with Band Importance for Hyperspectral Object Tracking", *IEEE Transactions on Image Processing (TIP)*, 2023.

29. Ziqi Yu, Zhuang Zhao, Haocun Qi, Jing Han, Yi Zhang, Lianfa Bai, **Fengchao Xiong**. "Redundant Compressed Single-Pixel Hyperspectral Imaging System", *Optics Communications*, 2023.

30. Zhuang Zhao, Jiutao Mu, Hui Xie, **Fengchao Xiong**, Jun Lu, JingHan. "Rapid coded aperture spectrometer based on energy concentration characterstic", *Signal Processing*, 2023.

31. Hui Xie, Jing Han, Yi Zhang, **Fengchao Xiong**, Zhuang Zhao. "Dual camera snapshot high-resolution-hyperspectral imaging system with parallel joint optimization via physics-informed learning", *Optics Express*, 2023.

32. Shou Feng, Rui Feng, Yiming Yan, Chunhui Zhao, **Fengchao Xiong**, Lifu Zhang. "An Attention-based Multiscale Spectral-Spatial Network for Hyperspectral Target Detection", *IEEE Geoscience and Remote Sensing Letters (GRSL)*, 2023.

33. **Fengchao Xiong**, Jun Zhou, Zhuang Zhao, Yuntao Qian. "Iterative Refinement Network for Hyperspectral Image Denoising", *IEEE International Conference on Multimedia & Expo (ICME)*, 2023.

34. Tianhan Li, **Fengchao Xiong**, Wenbin Zheng, Zhuanfeng Li, Jun Zhou, Yuntao Qian. "Wavelet Siamese Network for Change Detection in Remote Sensing Images", *International Geoscience and Remote Sensing Symposium (IGARSS)*, 2023.

35. **Fengchao Xiong**, Zhongyi Gu, Wenbin Zheng, Tianhan Li, Jun Zhou. "Multi-task Attentional U-Net for Hyperspectral Image Denoising", *International Geoscience and Remote Sensing Symposium (IGARSS)*, 2023.

36. Shou Feng, Rui Feng, Fengchao Xiong, Chunhui Zhao, Wei Li, Ran Tao. "A Transformer-Based Cross-Domain Few-Shot Learning Method for Hyperspectral Target Detection", *IEEE Transactions on Geoscience and Remote Sensing (TGRS, Under Review)*, 2023.

37. Guanyiman Fu, **Fengchao Xiong**, Jianfeng Lu, Jun Zhou, Jiantao Zhou, Yuntao Qian. "Hyperspectral Image Denoising via Spatial-Spectral Recurrent Transformer", *IEEE Transactions on Geoscience and Remote Sensing (TGRS, Under Review)*, 2023.

38. Zhuanfeng Li, **Fengchao Xiong**, Jun Zhou, Jianfeng Lu, Zhuang Zhao, Yuntao Qian. "Material-Guided Multi-View Fusion Network for Hyperspectral Object Tracking", *IEEE Transactions on Geoscience and Remote Sensing (TGRS, Major Revision)*, 2023.

39. **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 (TGRS)*, 2022.

40. **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 (TGRS)*, 2022.

41. 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 (TGRS)*, 2022.

42. **Fengchao Xiong**, Jun Zhou, Shuyin Tao, Jianfeng Lu, Jiantao Zhou, Yuntao Qian. "SMDS-Net: Model Guided Spectral-Spatial Network for Hyperspectral Image Denoising", *IEEE Transactions on Image Processing (TIP)*, 2022.

43. Guanyiman Fu, **Fengchao Xiong***, Jianfeng Lu, Jun Zhou, Yuntao Qian. "Hyperspectral Image Denoising via Nonlocal Spatial-Spectral Recurrent Neural Network", *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, 2022.

44. Hui Xie, Jun Lu, JingHan, Yi Zhang, **Fengchao Xiong**, Zhuang Zhao. "Fourier space coded hyperspectral imaging system", *Optics and Lasers in Engineering (OLEN)*, 2022.

45. Zhuanfeng Li, **Fengchao Xiong***, Jianfeng Lu, Jun Zhou, Yuntao Qian. "Material-Guided Siamese Fusion Network for Hyperspectral Object Tracking", *International Conference on Acoustics, Speech, and Signal Processing (ICASSP),* 2022.

46. **Fengchao Xiong***, Jun Zhou, Minchao Ye, Jianfeng Lu, Yuntao Qian. "Multitask Sparse Neural Network for Hyperspectral Image Denoising", *International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2022.

47. Xiangyu Wu, Jianfeng Lu, Zhuanfeng Li, **Fengchao Xiong**. "Ques-to-Visual Guided Visual Question Answering", *IEEE International Conference on Image Processing (ICIP)*, 2022.

48. **Fengchao Xiong**, Minchao Ye, Jun Zhou, Yuntao Qian. "Spatial-Spectral Convolutional Sparse Neural Network for Hyperspectral Image Denoising", *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 2022.

49. Zhihao Meng, Minchao Ye, Futian Yao, **Fengchao Xiong**, Yuntao Qian. "Cross-scene Hyperspectral Image Classification Based on Cycle-Consistent Adversarial Networks", *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 2022.

50. Chenglong Wang, Minchao Ye, Ling Lei, **Fengchao Xiong**, Yuntao Qian. "Cross-domain Attention Network for Hyperspectral Image Classification'", *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 2022.

51. 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.

52. **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.

53. 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.

54. Guanyiman Fu, **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.

55. Shide Zou, **Fengchao Xiong***, Haonan Luo, Jianfeng Lu, Yuntao Qian. "AF-Net: All-scale Feature Fusion Network for Road Extraction from Remote Sensing Images", *International Conference on Digital Image Computing: Techniques and Applications(DICTA)*, 2021.

56. **Fengchao Xiong**, Jun Zhou, Yuntao Qian. "Material Based Object Tracking in Hyperspectral Videos", *IEEE Transactions on Image Processing (TIP)*, vol. 29, no. 1, pp. 3719-3733, 2020.

57. Yuntao Qian, **Fengchao Xiong**, Qipeng Qian, Jun Zhou. "Spectral Mixture Model Inspired Network Architectures for Hyperspectral Unmixing", *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, vol. 58, no. 10, pp. 7418-7434, 2020.

58. **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.

59. 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**)

60. 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.

61. **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.

62. 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.

63. **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*

(TGRS), vol. 57, no. 4, pp. 2341-2357, 2019.

64. **Fengchao Xiong**, Jun Zhou, Yuntao Qian. "Hyperspectral Restoration via L_0 Gradient Regularized Low-Rank Tensor Factorization", *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, vol. 57, no. 12, pp. 10410-10425, 2019.

65. **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.

66. Qipeng Qian, **Fengchao Xiong**, Jun Zhou. "Deep Unfolded Iterative Shrinkage-Thresholding Model for Hyperspectral Unmixing", *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 2019.

67. **Fengchao Xiong**, Jingzhou Chen, Jun Zhou, Yuntao Qian. "Superpixel-Based Nonnegative Tensor Factorization for Hyperspectral Unmixing", *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 2018.

68. **Fengchao Xiong**, Jun Zhou, Yuntao Qian. "Hyperspectral Imagery Denoising via Reweighed Sparse Low-Rank Nonnegative Tensor Factorization" , *IEEE International Conference on Image Processing (ICIP)*, 2018.

69. 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.

70. 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.

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REFEREES

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- Jun Zhou (jun.zhou@griffith.edu.au)
- Jiantao Zhou (jtzhou@um.edu.mo)