Fengchao Xiong

+86 17816856687 • fcxiong@njust.edu.cn • www.xiongfuli.com/cv

Education

Ph.D, Computer Science — **Hangzhou, China**
College of Computer Science, Zhejiang University — *2014.9-2019.10*
Supervisor: Prof. Yuntao Qian

Visiting student, Computer Science — **Brisbane, Australia**
School of Information and Communication Technology, Griffith University, — *2017.11-2018.11*
Supervisor: Dr. Jun Zhou

B.E, Software Engineering — **Jinan, China**
School of Software Engineering, Shandong University — *2010.9-2014.6*

Exchange student, Software Engineering — **Wuhan, China**
International School of Software, Wuhan University — *2011.9-2012.6*

Work experience

Nanjing University of Science and Technology, Nanjing, Jiangsu. — 2019.10-
Lecturer (Assistant Professor) in School of Computer Science and Engineering

Research

- Low-rank and sparse matrix/tensor representation
- Hyperspectral imaging
- Object tracking
- Deep learning

Publications

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*, vol. 55, no. 3, pp. 1776-1792, 2017.
2. **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.
3. **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.
4. Yuntao Qian, **Fengchao Xiong**, Qipeng Qian, Jun Zhou. "Spectral Mixture Model Inspired Network Architectures for Hyperspectral Unmixing", *IEEE Transactions on Geoscience and Remote Sensing*, 2019. (Minor revision)
5. **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.
6. **Fengchao Xiong**, Jingzhou Chen, Jun Zhou, Yuntao Qian. "Superpixel-Based Nonnegative Tensor Fac-

torization for Hyperspectral Unmixing", *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 2018.

7. **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.

8. 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.

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

10. **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)*, Amsterdam, 2019.(Oral)

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 (Under Review).

12. Xinhai Ye, **Fengchao Xiong**, Jianfeng Lu, Haifeng Zhao, Jun Zhou. "Multi-scale Multi-level Enhanced Features for Object Detection in Optical Remote Sensing Images", *IEEE International Conference on Image Processing (ICIP)*, 2020 (Under Review).

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 (Under Review).

Professional Activities

Reviewer:
- IEEE Transactions on Multimedia (TMM)
- IEEE Transactions on Image Processing (TIP)
- IEEE Transactions on Geoscience and Remote Sensing (TGRS)
- IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS)
- Pattern Recognition (PR)

Volunteer: The 11th IAPR International Conference on Biometrics (ICB 2018)   2018.2

Honors and Awards

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

Referees

- Yuntao Qian (ytqian@zju.edu.cn)
- Jun Zhou (jun.zhou@griffith.edu.au)
- Lanfen Lin (llf@zju.edu.cn)