Xiang Li

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Education

New York University, Visiting Ph.D. student   Oct 2019 –

Postdoc Associate, Cooperator: Yi Fang and Lingjing Wang.

Chinese Academy of Sciences   Sep 2014 – Jun 2019

Ph.D. of Remote Sensing and Geographic Information system, Supervisor: Tianhe Chi and Ling Peng.

New York University, Visiting Ph.D. student   Dec 2017 – Jan 2019

Computer vision and deep learning research, Supervisor: Yi Fang and Edward Wong.

Wuhan University   Sep 2010 – Jun 2014

B.S. of Remote sensing Science and Technology, Supervisor: Yonghong Jia, Rank:1/80

Research Interests

Deep Learning, Computer Vision, Remote Sensing Image Processing, Smart City.

Honors

- **2018, National Scholarship**, University of Chinese Academy of Sciences
- **2018, Excellent research paper award**, Institute of Remote Sensing and Digital Earth (RADI), Chinese Academy of Sciences
- **2017, China Scholarship Council scholarship**
- 2016, Presidential Foundation of RADI
- 2012, Seagate Scholarship, Wuhan University
- **2011, National Scholarship**, Wuhan University

- **6 SCI papers, 3 conference papers (first or corresponding)**

  - (1) L Wang, **X Li** (equal contribution), Y Fang. Few-shot Learning of Part-specific Probability Space for 3D Shape Segmentation, IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2020. (**CCF A**)
  - (2) **X Li**, L Wang, M Wang, C Wen, N Zhou, Y Fang. Density-Aware Convolutional Networks with Context Encoding for Airborne LiDAR Point Cloud Classification, ISPRS Journal of Photogrammetry and Remote Sensing, accepted.(SCI, **top, IF=6.9**)
  - (3) **X Li**, C Wen, L W, Y Fang. Topology Constrained Shape Correspondence, IEEE Transactions on Visualization and Computer Graphics, accepted. (SCI, **top, IF=3.8**)
  - (4) C Wen, L Yang, L Peng, **X Li***(corresponding author), T Chi. Directionally Constrained Fully Convolutional Neural Network For Airborne Lidar Point Cloud Classification, ISPRS Journal of Photogrammetry and Remote Sensing, 2020(162):50-62.(SCI, **top, IF=6.9**)
  - (5) C Wen, S Liu, X Yao, L Peng, **X Li**, A novel spatiotemporal convolutional long short-term neural network for air pollution prediction[J]. Science of The Total Environment, 2019, 654: 1091-1099.(SCI, **top, IF=4.6**)
  - (6) J Chen, L Wang, **X Li**, Y Fang. Arbicon-Net: Arbitrary Continuous Geometric Transformation Networks for Image Registration, Neural Information Processing Systems (NeurIPS) 2019. (CCF A)

- (7) Y Hu, Y Chen, **X Li**, J Feng. Dynamic Feature Fusion for Semantic Edge Detection, International Joint Conferences on Artificial Intelligence (IJCAI) 2019. (CCF A).
- (8) Y Hu, **X Li**, L Peng. A Sample Update-based Convolutional Neural Network Framework for Object Detection in Large-area Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2019, 16(6). (SCI Q2, IF=3.5)
- (9) **X Li**, L Wang, Y Fang. PC-Net: Unsupervised Point Correspondence Learning with Neural Networks, International Conference on 3D Vision (3DV), 2019.
- (10) **X Li**, H Cui, J Rizzo, E Wong, Y Fang. Cross-Safe: A computer vision-based approach to make all intersection-related pedestrian signals accessible for the visually impaired, Computer Vision Conference 2019. (**best student paper nomination**)
- (11) **X Li**, F Yi. Building-A-Nets: Robust building extraction from high-resolution Remote Sensing images with adversarial networks, IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018(99):1-8. (SCI Q2, IF=2.8)
- (12) Y Hu, **X Li**, L Peng. A novel evolution tree for analyzing the global energy consumption structure[J]. Energy, 2018, 147: 1177-1187. (SCI, **top, IF=4.9**)
- (13) **X Li**, L Peng, X Yao. et al, Long short-term memory neural network for air pollutant concentration predictions: Method development and evaluation, Environmental Pollution, 2017, 231P1: 997-1004.(SCI, **top, IF=5.1**)
- (14) H Tian, W Li, M Wu, N Huang, G Li, **X Li**, Z Niu, Dynamic monitoring of the largest freshwater lake in China using a new water index derived from high spatiotemporal resolution Sentinel-1A data. Remote Sensing, 2017, 9(6), 521. (SCI Q2, IF=4.1)
- (15) **X Li**, L Peng, Y Hu. et al, Deep learning architecture for air quality predictions, Environmental Science and Pollution Research, 2016,23(22):22408-22417.(SCI Q2, IF=2.7)

- Reviewer for: ISPRS Journal of Photogrammetry and Remote Sensing (ISPRS PRS), IEEE Transactions on Geoscience and Remote Sensing (TGRS), IEEE Geoscience and Remote Sensing Letters (GRSL), Pattern Recognition Letters (PRL), BMVC 2020, IEEE ACCESS.
- Google Scholar: citations 340, https://scholar.google.com/citations?user=4Apl5FgAAAAJ
- **5 patents**
  - **X Li**, L Peng, Y Hu, S Xiao. Building rooftop extraction method and device for remote sensing images. (No. CN108764039A)
  - L Peng, W Chen, T Chi, **X Li**, G Li. Map visualization system and method for knowledge mining based on spatial big data. (No. CN105426461A)
  - L Peng, H Lin, T Chi, T Liu, **X Li**, Y Xu, L Zhang. Metro short-term flow forecasting method and device. (No. CN106372722A)
  - **X Li**, L Peng, S Xiao, Y Hu, Gaosheng Li. Method and system for predicting air pollutant concentration. (No. CN106485353A)
  - L Peng, **X Li**, T Chi, S Cui, Y Xu. A method for predicting the concentration of air pollutants. (No. CN105303051A)