Longjie Ye

PERSONAL INFORMATION

Gender: Male
Date of birth: 30 Jun. 1997
Nationality: China
Address: Nanjing Normal University, Jiangsu, 210023, P. R. China.
E-mail: yee.longjie@gmail.com
Phone: +86-13121611993

EDUCATION

Sep. 2019-Jun.2022	**Nanjing Normal University**, China Master in Photogrammetry and Remote Sensing Cumulative GPA: 3.66/4.00 Supervisor: A/Prof. Ka Zhang
Sep. 2015-Jun. 2019	**Capital Normal University**, China Bachelor in Remote Sensing Cumulative GPA: 3.64/4.00 Ranking top 5% out of 26 students in the class

Research Interests

My principal research interests include detecting ground objects and collecting their 3D geospatial information based on digital photogrammetry and LiDAR.

- AI-based object recognition and segmentation from LiDAR data
- Theory and methods of multi-view image matching for aerial images
- Reconstruction of 3D city models based on multimodel remote sensing data

PUBLICATIONS

1. **Ye, L.**, Zhang, K.*, Xiao, W., Sheng, Y., Su, D., Wang, P., Zhang, S., Zhao, N., & Chen, H. Gaussian mixture model of ground filtering based on hierarchical curvature constraints for airborne lidar point clouds[J]. *Photogrammetric Engineering & Remote Sensing*, 2021, 87(9):615–630.
2. Zhang, K., **Ye, L.***, Xiao, W., Sheng, Y., Zhang, S., Tao, X., & Zhou, Y. A dual attention neural network for airborne lidar point cloud semantic segmentation[J]. *IEEE Transactions on Geoscience and Remote Sensing*, 2022, 60:1-17.
3. Zhang, K.*, Xiao, W., Sheng, Y., Zhang, S., & **Ye, L**. A discovery about the positional distribution pattern among candidate homologous pixels and its potential application in aerial multi-view image matching[J]. *Scientific Reports*, 2021, 11(1):10161-10181.
4. Chen, H., Zhang, K.*, Xiao, W., Sheng, Y., Cheng, L., Zhou, W., Wang, P., Su, D., **Ye, L.,** & Zhang, S. Building change detection in very high-resolution remote sensing image based on pseudo-orthorectification[J]. *International Journal of Remote Sensing*, 2021, 42(7):2686-2705.

RESEARCH (Supervised by A/Prof. Zhang)

1. Research on the dense matching of multi-source satellite image matching based on object space constraints, Natural Science Foundation of Jiangsu Province (grant number BK20201372), PI: Ka Zhang, 2020-2023.

2. Research on the object-side multi-view image matching faced on virtual geographic scene reconstruction, the Open Fund of Key Laboratory of Urban Land Resources Monitoring and Simulation，Ministry of Natural Resources (grant number KF-2019-04-003), PI: Ka Zhang, 2020-2021.

HONORS & AWARDS

- Outstanding graduates, Nanjing Normal University — May. 2022
- Excellent postgraduate, Nanjing Normal University — Mar. 2022
- The First Prize Scholarship, Nanjing Normal University — Oct. 2021
- The First Prize of the innovative design group in Surveying and Mapping Geographic Information Innovation and Entrepreneurship Competition, Jiangsu province — Oct. 2021

EXPERTISE & SKILLS

- **Computer**
  - Programming language: C/C++, Python, C#, Matlab.
  - Enable to deploy the deep learning framework using GPU in Linux.
  - Specialized software: Office, Endnote, ENVI, ArcGIS, Smart3D, Cloudcompare, TerraSolid, etc.
- **Major & Language**
  - Master and implement machine learning algorithms.
  - Conduct experiments to segment point clouds and construct a digital elevation model.
  - IELTS 6.5 (Speaking 6.0, Reading 7.5, Writing 6.0, Listening 6.0)

PATENTS & SOFTWARE

- **Ye, L.**, Zhang, K., Sheng, Y. A point cloud filtering method based on multi-level curvature constraints, CN 202011253108.3.
- **Ye, L.**, Zhang, K. 3D point cloud visualization and classification system (Version 1.0), CN 2020SR1855731