Yao Wei

School of Remote Sensing and Information Engineering,   (86)17854227110

Wuhan University, Wuhan 430079, China.   weiyao@whu.edu.cn

EDUCATION

Wuhan University, Wuhan, China   Sep. 2018–Present

- MSc in photogrammetry and remote sensing   Expected June 2021
- Weighted average score is 89.78/100
- Awarded *Outstanding Master Student of University* (top 10%), etc.

China University of Petroleum, Qingdao, China   Sep. 2014–June 2018

- BSc in geographic information science
- Weighted average score is 88.26/100 (ranking 2/53)
- Awarded *Undergraduate Scholarship of University*, *Honorable Mention of The Interdisciplinary Contest in Modeling*, *2nd prize of National Competition in GIS Application Skills for College Student*, etc.

PUBLICATIONS

Journal Article

- Scribble-based Weakly Supervised Deep Learning for Road Surface Extraction from Remote Sensing Images

  Yao Wei, Shunping Ji

  IEEE Transactions on Geoscience and Remote Sensing (TGRS), 2021.

  DOI: 10.1109/TGRS.2021.3061213

- Simultaneous Road Surface and Centerline Extraction from Large-scale Remote Sensing Images Using CNN-based Segmentation and Tracing

  Yao Wei, Kai Zhang, Shunping Ji

  IEEE Transactions on Geoscience and Remote Sensing (TGRS), vol. 58, no. 12, pp. 8919-8931, Dec. 2020.

  DOI: 10.1109/TGRS.2020.2991733

Conference Presentation

- Road Network Extraction from Satellite Images Using CNN Based Segmentation and Tracing

  Yao Wei, Kai Zhang, Shunping Ji

  IEEE Geoscience and Remote Sensing Symposium (IGARSS), Yokohama, Japan, 2019, pp. 3923-3926.

  DOI: 10.1109/IGARSS.2019.8898565

Patent

- A weakly supervised learning method for road segmentation from remote sensing images based on convolutional neural network

  一种基于卷积神经网络弱监督学习的遥感影像道路分割方法

  Shunping Ji, **Yao Wei**

  202010771919.6, CN 112070779 A, Wuhan University, 2020.

- A deep learning-based approach for simultaneously extracting road surface and centerline from remote sensing images

  一种同时提取遥感影像道路路面和中心线的深度学习方法

  Shunping Ji, **Yao Wei**, Kai Zhang

  201911228166.8, CN 111046768 A, Wuhan University, 2019.

SKILLS

- **Programming**: PyTorch, TensorFlow, Keras, Python, OpenCV, C/C++, Go, Matlab
- **Languages**: English (proficient, IELTS 7.0), Chinese (native)