Longkang Peng

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RESEARCH INTERESTS

Label Noise, Human Labeling, Convolutional Neural Network, Earth Observation, Intelligence

EDUCATION

Ph.D., present – The Hong Kong Polytechnic University

M.A. in Cartography and Geographical Information Engineering, June 2022 – Beijing Normal University

B.A. in Spatial Information and Digital Technology, June 2019 – University of Electronic Science and Technology of China

PUBLICATIONS

Peng, L., Wei, T., Chen, X., Chen, X., Sun, R., Wan, L., Chen, J., & Zhu, X. (2023). Human-annotated label noise and their impact on ConvNets for remote sensing image scene classification. *arXiv preprint arXiv:2305.12106*. (Under review)

Peng, L., Chen, X., Chen, J., Zhao, W., & Cao, X. (2022). Understanding the role of receptive field of convolutional neural network for cloud detection in Landsat 8 OLI imagery. *IEEE Transactions on Geoscience and Remote Sensing*, 60, 1-17.

Peng, L., Liu, L., Chen, X., Chen, J., Cao, X., & Qiu, Y. (2021). Generalization ability of cloud detection network for satellite imagery based on DeepLabv3+. *Nat. Remote Sens. Bull.*, 25(5), 1169-1186.

CONFERENCE PRESENTATIONS

2023. Peng, Longkang. "Human labeling errors and their impact on ConvNets for satellite image scene classification." Global Smart Cities Summit (GSCS 2023) cum The 3rd International Conference on Urban Informatics (ICUI 2023), Hong Kong.

2021. Peng, Longkang. "Segmentation Network with Larger Receptive Field Cannot Benefit Cloud Detection Task." The 28th International Conference on Geoinformatics (Geoinformatics 2021 - CPGIS Annual Conference), Nanchang, Jiangxi, China.

HONORS / AWARDS

Competition Award (ranked 2nd out of 62) in SenseTime Artificial Intelligence Remote Sensing Interpretation Competition, Ground Object Classification Track, 2020