

Special Issue

Remote Sensing Training Data: Annotation, Quality, and Optimization

Message from the Guest Editors

High-quality training data is fundamental to the development of accurate and reliable remote sensing models. As remote sensing technologies and applications expand rapidly—ranging from environmental monitoring to urban planning and disaster management—the demand for precise and well-annotated datasets grows. However, challenges such as label noise, annotation inconsistencies, and suboptimal data quality remain major bottlenecks that hinder model performance and generalization. Addressing these issues through advanced annotation methodologies, noise mitigation techniques, and data optimization strategies is crucial for pushing the boundaries of remote sensing research and applications. This Special Issue aims to gather recent developments and practical solutions related to training data annotation and quality enhancement in remote sensing. We welcome contributions on automated or AI-assisted annotation techniques, approaches to detect and correct label noise, methods to evaluate and improve data quality, and strategies for optimizing datasets to boost model performance.

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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