

Special Issue

Remote Sensing-Guided Land-Use Optimization for Carbon Neutrality

Message from the Guest Editors

Sustainable land management can substantially contribute to mitigation efforts by enhancing terrestrial carbon sinks and reducing greenhouse gas emissions. The application of digital space remote sensing in climate-aligned land use mapping requires a synergistic approach that integrates high-resolution and multi-temporal spatial data, an understanding of land–climate–society interactions, advanced computational methods, and insights into land use change dynamics. In this Special Issue, manuscripts are expected to explore the potential of diverse data sources and sensor characteristics, as well as assess the performance of modern classification algorithms and change detection techniques. Contributions that examine how remote sensing can be linked with climate scenarios to model land use development or risk under future conditions are also encouraged. We particularly welcome research reports on the role of remote sensing in monitoring, modelling, reporting, and verification (MRV) of changes in aboveground biomass and soil carbon proxies, particularly in the context of climate-related land use policies such as REDD, LULUCF, UAST accounting.

Guest Editors

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Deadline for manuscript submissions

20 December 2025



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/241733

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Message from the Editorial Board

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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