

Special Issue

Application of Satellite Data for Lightning Mapping

Message from the Guest Editors

The application of satellite data for lightning mapping has revolutionized the way we monitor and understand lightning activity on a global scale. By utilizing advanced sensors, such as the Geostationary Lightning Mapper (GLM) covering the Americas, the Lightning Mapping Imager (LMI) covering China and Australia, and the Lightning Imager (LI) covering Europe and Africa, it is now possible to detect and track lightning strikes in near real-time over vast regions, including remote and oceanic areas previously inaccessible to ground-based detection systems. Satellite lightning mapping provides critical insights into storm dynamics, severe weather forecasting, and climate studies by capturing both intra-cloud and cloud-to-ground lightning events. These data aid in improving early warning systems for extreme weather, enhancing aviation safety, and supporting disaster management efforts. Additionally, lightning observations from space contribute to research on atmospheric electrical activity and its impact on ecosystems and global climate patterns.

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Deadline for manuscript submissions

15 October 2025



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/230046

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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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