Special Issue

Quantifying Greenhouse Gases Emissions from Remote Sensing Perspective

Message from the Guest Editor

Greenhouse gas (GHG) emissions remain a primary driver of anthropogenic climate change, yet accurately quantifying their fluxes and distributions across diverse regions is a persistent challenge. Recent advances in remote sensing, encompassing satellite missions, airborne campaigns and ground-based instruments now provide unprecedented spatial and temporal resolution for monitoring key gases such as carbon dioxide, methane and nitrous oxide. This Special Issue aims to collect original research articles, methodological developments and comprehensive reviews focusing on the acquisition, processing and interpretation of remote sensing data for quantifying GHG emissions. We welcome submissions that address innovative sensor technologies, retrieval algorithms and assimilation frameworks, and modeling and inversion techniques that transform these observations into robust emissions estimates.

Guest Editor

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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.

Editor-in-Chief

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