Special Issue

Retrieval and Validation of Trace Gases Using Remote Sensing Measurements

Message from the Guest Editor

Remote sensing trace gas observations from satellites are increasingly used in a wide range of applications. Development of new instruments and advances in remote sensing techniques and retrieval methods have enabled improvements in spatial, temporal, and vertical characterization of trace gases. Different observation platforms, measurement techniques, and retrieval methods yield different sampling of the atmosphere in both space and time as well as different sensitivity to atmospheric and observational parameters. To maximize science, applications, and societal benefits from these capabilities, it is crucial to carry out well-established evaluation strategies, including a thorough analysis when comparing measurement-derived geophysical parameters with correlative observations acquired by independent instrumentations from various platforms. This Special Issue focuses on compiling various scientific works related to retrieval and validation of trace gases from orbital, suborbital, and ground-based remote sensing instruments.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2020)

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/40783

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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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