Special Issue

Remote Sensing for Air Quality, Health, and Sustainable Development

Message from the Guest Editors

Air pollution remains a pressing global challenge, with profound impacts on air quality, human health, and climate systems. Atmospheric remote sensing has become an indispensable tool for monitoring particulate matter (PM1, PM2.5, PM10) and gaseous pollutants (NO2, SO2, O3, CO, and other trace gases). This Special Issue aims to highlight innovative methodologies and applications related to atmospheric remote sensing in environmental health, sustainable development, and air quality management. We particularly encourage studies that demonstrate clear pathways from observation to practice and provide evidence of the societal benefits of atmospheric remote sensing.

The scope of this Special Issue includes, but is not limited to, the following topics:

- Novel technologies in air quality modelling;
- Aerosol retrieval;
- Atmospheric correction;
- Surface-atmosphere signal decoupling;
- Artificial intelligence (AI) in remote sensing;
- Predictive modeling and time series in air quality;
- Aerosols and air pollutants dynamics;
- Climatic and environmental effect of aerosol and air pollution;
- Air pollution exposure and health risk assessment;
- Atmospheric environmental inequality and health disparities.

Guest Editors

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About the Journal

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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