Special Issue

Trend, Progress and Application of Remote Sensing for Atmospheric Environment and Climate Change

Message from the Guest Editors

The atmosphere is a dynamic component of Earth's system, playing a pivotal role in climate regulation, weather forecasting, and environmental health. With the increasing need to monitor atmospheric changes accurately and efficiently, remote sensing has emerged as a critical tool for capturing comprehensive data on atmospheric conditions across temporal and spatial scales. This Special Issue will collate cutting-edge research and advancements in applications of remote sensing technologies in atmospheric studies. We invite researchers, scientists, and practitioners to contribute original research articles, reviews, and case studies that highlight innovative methodologies, applications, and insights in the field of atmospheric remote sensing. Topics of interest include, but are not limited to, the following:

- Novel Remote Sensing Instruments and Sensors;
- Satellite and Airborne Remote Sensing Techniques;
- Atmospheric Composition Analysis;
- Weather and Climate Modeling;
- Air Quality Monitoring;
- Greenhouse Gas Monitoring;
- Aerosols and Cloud Studies;
- Validation and Calibration;
- Machine Learning Applications;
- Data Fusion and Integration;
- Atmospheric Environment Management.

Guest Editors

Dr. Shaohua Zhao

Dr. Xingying Zhang

Prof. Dr. Wei Xiong

Prof. Dr. Zhongwei Huang

Dr. Lei Zhu

Prof. Dr. Kai Qin

et al.

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Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

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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

Dr. Prasad S. Thenkabail
Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

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