



## Estimating Meteorological Variables by Remote Sensing Data

Guest Editors:

**Dr. Carmen Recondo**

**Prof. Dr. Federico Porcù**

**Dr. Juanjo Peón**

Deadline for manuscript  
submissions:

**closed (30 September 2021)**

### Message from the Guest Editors

Meteorological variables are key parameters in most environmental studies. Traditionally, these data have been obtained at ground-level meteorological stations, but although these in situ data are invaluable, continuous, and precise, they are also local and spatially sparse. Remote sensing allows obtaining these variables at a regular spatial scale together to a high/medium temporal scale. This means that it is crucial to do studies and maps at regional and global scales which will help us to understand the changes produced in the Earth and how they relate to each other. Remote-sensing techniques have been demonstrated to have a high potential for estimating meteorological variables such as surface air temperature, water vapour pressure, humidity, solar surface radiation, and precipitation, and also derived variables such as albedo and evapotranspiration. However, new methods and algorithms and more calibration/validation works and ideas about new optical, thermal, and radar sensors are necessary to improve the estimation of these variables by remote sensing, making remote-sensing techniques really operational.





an Open Access Journal by MDPI

## 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

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

**Journal Rank:** JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)

## Contact Us

---

*Remote Sensing* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/remotesensing](http://mdpi.com/journal/remotesensing)  
[remotesensing@mdpi.com](mailto:remotesensing@mdpi.com)  
[X@RemoteSens\\_MDPI](https://twitter.com/RemoteSens_MDPI)