



## Irrigation Mapping Using Satellite Remote Sensing

Guest Editors:

**Dr. Mehrez Zribi**

CESBIO, University of Toulouse,  
CNRS/UT3/IRD/CNES/INRAE,  
31400 Toulouse, France

**Dr. Nicolas N. Baghdadi**

INRAE, Montpellier, France

**Dr. Valerie Demarez**

Universite Paul Sabatier  
Toulouse III, Toulouse, France

Deadline for manuscript  
submissions:

**closed (31 July 2021)**

### Message from the Guest Editors

Dear Colleagues,

In a context of scarcity of water resources and high consumption of resources by agriculture, irrigation becomes a major scientific and societal challenge. The scientific community has so far mainly used optical remote sensing for monitoring irrigation. The arrival of new free and open access optical and radar sensors (such as Copernicus Sentinel missions) with very good spatial and temporal resolutions has made it possible to intensify the work of mapping irrigation and water management with remote sensing data. In this issue, the main objective is to highlight the scientific works related to irrigation:

- Mapping of irrigated areas using optical and radar remote sensing
- Assimilation of satellite data in irrigation models for monitoring water consumption
- Estimation of land surface flows for better irrigation management

Dr. Mehrez Zribi

Dr. Nicolas N. Baghdadi

Dr. Valérie Demarez

*Guest Editors*





an Open Access Journal by MDPI

## Editors-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

### **Prof. Dr. Dongdong Wang**

Institute of Remote Sensing and  
Geographic Information Systems,  
Peking University, Beijing, China

## Message from the Editorial Board

*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)