



## New Perspectives for Atmospheric Correction: Theory, Methods and Applications

Guest Editors:

**Dr. Heshun Wang**

**Prof. Dr. Bo Zhong**

**Dr. Linlu Mei**

**Dr. Jingjing Peng**

Deadline for manuscript  
submissions:

**closed (31 December 2019)**

### Message from the Guest Editors

Dear Colleagues,

Atmospheric correction is critical in deriving land surface biophysical parameters from both optical and thermal infrared remotely sensed data. Radiative transfer model rigorously describes the scattering, absorption and emission characteristics of cloud, aerosols and gases in the atmosphere, which is the key theory serving for atmospheric parameters retrieving and atmospheric correction.

This Special Issue is aimed at the most recent progresses of the following topics, but not limited to:

- Retrieval of aerosol properties from moderate-high spatial resolution satellite observations or by combining different instruments.
- Better aerosol optical depth retrieval based on historical accumulated data and validation, especially for bright surface and sparsely vegetated surface.
- Radiative transfer modeling, atmospheric parameters inversion and validation.
- Novel or operational atmospheric correction algorithms for optical and thermal infrared images.
- Land surface variables retrieval and evaluation under various atmospheric conditions.

Dr. Heshun Wang

Prof. Bo Zhong

Dr. Linlu Mei

Dr. Jingjing Peng

Guest Editors





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, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/remotesensing  
remotesensing@mdpi.com  
X@RemoteSens\_MDPI