Special Issue

Remote Sensing of the Earth's Radiation Budget

Message from the Guest Editors

Remote sensing provides an effective and promising way for objectively detecting the Earth's radiation budget and changes at both surface and the TOA levels. Although tremendous efforts have been made to derive shortwave and longwave radiation components from space, accurate estimation of the earth's radiation budget and the associated variations are still very challenging. This Special Issue aims to publish original research articles concerning the observation of both shortwave and longwave radiation components using the state-of-the-art remote sensing techniques as well as the related analysis. This Special Issue mainly focuses on contributions that address topics including but not limited to: Radiation related radiative transfer modelling;

Estimation of shortwave components; Estimation of Longwave components; Derivation of Surface and TOA albedo; Land surface temperature and emissivities retrieval; Estimation of outgoing longwave radiation at TOA; Cloud and aerosol effect on the radiation; Radiation modelling over the rugged terrain; Radiation validation and inter-comparisons; Long-term radiation products from space; Applications of radiation products.

Guest Editors

Dr. Tianxing Wang Dr. Husi Letu Dr. Dongdong Wang Prof. Dr. Jie Cheng Prof. Dr. Tao He Dr. Xiaotong Zhang

Deadline for manuscript submissions

closed (31 March 2023)



an Open Access Journal by MDPI

Impact Factor 4.1 CiteScore 8.6



mdpi.com/si/132804

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

mdpi.com/journal/ remotesensing





an Open Access Journal by MDPI

Impact Factor 4.1 CiteScore 8.6



MDPI

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 peerreview 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

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)