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

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Deadline for manuscript submissions

closed (31 March 2023)

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About the Journal

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.

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