Special Issue

Remote Sensing of Land Surface Radiation Budget

Message from the Guest Editors

The land surface radiation budget (SRB), describing the radiation balance between the incoming radiation and outgoing radiation in both shortwave and longwave spectra domains at the surface, is essential to any land surface models that characterize hydrological, ecological, and biogeochemical processes. Major components of the land surface radiation budget are surface net radiation, heat conduction (i.e., soil heat flux), and turbulent heat flux components (i.e., sensible and latent heating). It has been proven that remote sensing is a valuable data source to accurately map the long-term SRB components at various spatial and temporal resolutions. In particular, many space agencies and organizations around the world have already released various SRB climate data record (CDR) products. However, current existing SRB products are of insufficient accuracy for some applications. The spatial pattern and temporal trend inconsistency are frequently reported in the current satellite derived SRB products. Moreover, the spatial coverage and spatial–temporal resolutions of SRB products also need to be improved.

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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.

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