Special Issue

Remote Sensing of Land Surface and Earth System Modelling

Message from the Guest Editors

Land surface observations are increasingly used to constrain climate models, weather prediction systems and hydrological forecast and flood alert systems. Current satellites provide relevant information on hydrology (e.g., soil moisture, snow depth and cover, terrestrial water storage, inland water extent and temperature), vegetation (e.g., LAI, NDVI, FAPAR, biomass) and energy (e.g., LST, albedo). This Special Issue aims at documenting most recent progress in using land surface remote sensing observations (soil moisture, vegetation, snow extent and water equivalent, lakes and land surface temperature, land surface albedo, flooded areas) for Earth system modelling applications, including weather forecasts, climate modelling and hydrological forecasts. We welcome studies related to land surface data assimilation, land surface re-analysis, as well as land surface forward modelling (VIS/IR/MW), inverse modelling and machine learning. The Special Issue also encourages studies that investigate land surface parameter retrieval, coupled assimilation in land-hydrology-atmosphere systems as well as intercomparison studies.

Guest Editors

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Deadline for manuscript submissions

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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.

Editor-in-Chief

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