Special Issue

Assessment of Solar Energy Based on Remote Sensing Data

Message from the Guest Editors

In 14 and a half seconds, the sun provides as much energy to Earth as its population uses daily. However, assessing solar energy potential and performance require accurate and reliable data on the solar resource and the environmental conditions, which can be used to evaluate solar energy variability and availability and optimize the design and operation of solar energy systems. Remote sensing data can support this direction in the planning and managing of solar energy production. Planning can facilitate the transition to green energy, the integration of solar energy into the power grid, and the development of solar energy policies and markets. At the same time, efficient management ensures energy security based on renewables. This Special Issue will showcase the overall improvement in research and developments in remote sensing data, modelling approaches, and techniques for solar radiation and energy assessment, nowcasting, and forecasting from rooftop photovoltaic installations in urban environments to big solar farms on regional or even global scales.

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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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