Special Issue

Leveraging Advanced Remote Sensing Technologies for Comprehensive Renewable Energy Monitoring, Systematic Optimization, and Multidimensional Environmental Integration

Message from the Guest Editors

The transition to renewable energy is a cornerstone of global efforts to combat climate change and achieve sustainable development. However, this transition involves complex challenges, including accurate resource assessment, optimal site selection, efficient performance monitoring, and the mitigation of environmental impacts. Advanced remote sensing technologies are revolutionizing how these challenges are addressed, offering high-resolution, real-time, and spatially extensive data that enable more effective and informed decision-making in renewable energy systems.

This Special Issue seeks to explore the transformative applications of remote sensing in renewable energy. By integrating cutting-edge methodologies such as satellite-based monitoring, drone technology, LiDAR, hyperspectral imaging, and artificial intelligence, this Special Issue aims to showcase innovative research and practical solutions that enhance the efficiency, sustainability, and environmental integration of renewable energy systems.

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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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