Special Issue

Advanced Remote Sensing Technologies for Soil Erosion Mapping and Modeling

Message from the Guest Editors

Soil erosion is a critical global environmental threat that jeopardises land productivity, water quality, and ecosystem sustainability. Accurate and timely estimation of soil erosion rates is paramount for developing effective conservation strategies. While traditional methods like the Revised Universal Soil Loss Equation (RUSLE) are widely used, they often suffer from limitations in data availability and spatial resolution. The advent of high-resolution remote sensing data (from satellites, UAVs, etc.) and advanced geospatial technologies (GIS, machine learning) has revolutionised our ability to map, monitor, and model soil erosion processes at multiple scales with unprecedented accuracy. This Special Issue aims to capture the latest advancements in leveraging remote sensing for precise and dynamic soil erosion estimation. This Special Issue, entitled "Advanced Remote Sensing Technologies for Soil Erosion Mapping and Modeling". The primary aim is to collate innovative research that integrates remote sensing data with modeling approaches to improve the quantification of soil erosion. We encourage submissions that address key challenges.

Guest Editors

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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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