Special Issue

Leveraging Remote Sensing for Sustainable Watershed Management

Message from the Guest Editor

The accelerating challenges of climate change, land use alterations, and water resource scarcity demand innovative approaches for watershed management. Remote sensing (RS), with its capability to provide timely, synoptic, and multi-scale data, has emerged as a transformative tool for sustainable watershed planning and monitoring. This Special Issue aims to explore how satellite-based and UAV-acquired remote sensing technologies can support hydrological modeling, land cover change analysis, flood risk forecasting, erosion monitoring, and decision-support systems in watershed contexts. By bridging geospatial data science and watershed sustainability, this Special Issue positions remote sensing at the forefront of integrated water resources management. Contributions should aim to fill knowledge gaps, advance methodological frameworks, and foster interdisciplinary solutions that align with global sustainability goals. In this Special Issue, original research articles and reviews are welcome. We invite contributions that explore methodological innovations, case studies, and interdisciplinary applications that support data-driven watershed management strategies.

Guest Editor

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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