Special Issue

Advancing Sustainability Through Remote Sensing: Addressing Climate Change Challenges

Message from the Guest Editors

Climate change poses unprecedented challenges to global sustainability, exacerbating extreme weather events, sea-level rise, biodiversity loss, and ecosystem degradation. Addressing these issues requires comprehensive, real-time monitoring and predictive modeling to inform adaptive strategies. This Research Topic aims to showcase innovative applications of remote sensing and interdisciplinary methods for climate change mitigation and adaptation. Potential topics include but are not limited to the following:

- Spatiotemporal analysis of carbon sinks and cycling;
- Early detection of climate-induced natural hazards (e.g., droughts, floods, landslides);
- Monitoring of ecosystem resilience and biodiversity hotspots;
- Urban sustainability modeling through remote sensing;
- Novel technologies for monitoring cryospheric and coastal dynamics;
- Development of decision-support frameworks for sustainable resource use;
- Development of early warning systems for extreme weather events;
- Innovation in data fusion for cross-scale climate modeling.

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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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