Special Issue

Application of Remote Sensing in Climate-Friendly Land Use Mapping

Message from the Guest Editors

Land use and land cover (LULC) changes significantly impact climate systems, contributing to greenhouse gas emissions, biodiversity loss, and altered carbon cycles. Unsustainable land practices—such as deforestation, urban sprawl, and intensive agriculture—exacerbate climate change, while climate-friendly land management (e.g., afforestation, regenerative farming, and urban greening) can mitigate its effects. Climate change mitigation and sustainable land management are critical challenges. Remote sensing has become a fundamental tool for monitoring these changes, providing data to guide climate-smart land use policies. This Special Issue aims to explore innovative remote sensing applications; highlight advances in remote sensing techniques for sustainable land use mapping; show climate-friendly land management using satellite, UAV, SAR, and LiDAR data; discuss artificial intelligence and machine learning methods for analyzing land classification and land use changes; and address challenges in integrating remote sensing with climate-related policies.

Guest Editors

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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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