Special Issue

Using Earth Observation Data to Monitor Deforestation and Forest Degradation to Ensure Compliance with Regulatory Frameworks

Message from the Guest Editors

This Special Issue explores the role of EO in supporting compliance with regulatory frameworks such as the EUDR (EU Regulation on Deforestation-free Products) and voluntary zero-deforestation commitments. Contributions will examine innovative EO methodologies, such as GeoAI, machine learning-based land-cover classification, land-use and commodity mapping, radar and optical data fusion, automated deforestation, and forest degradation alerts. Additionally, case studies may highlight applications in supply chain traceability, law enforcement, and for sustainability reporting. This Special Issue will also address the challenges of EO-based compliance monitoring, including data availability, accuracy, and integration with ground-based verification.. Original research papers, reviews, and commentaries with a focus on deforestation and forest degradation driven by agricultural expansion or commodities with relevance to the EUDR and zero-deforestation initiatives are invited. Time series analysis techniques that assess the timing and duration for deforestation and forest degradation as a result of agricultural activities, as well as timber extraction, are further encouraged.

Guest Editors

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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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