



Enhancing Vegetation and Water Use Management through Earth Observation

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Message from the Guest Editors

Remote sensing plays a vital role in monitoring vegetation dynamics and managing water resources by providing comprehensive spatial and temporal information. These technologies enable rapid and precise assessments, facilitating informed decision-making for sustainable land and water management practices. This special issue aims to explore the latest satellite technologies for monitoring regional vegetation and water resources. Topics of interest span spatial and temporal variations in regional water resources (e.g., precipitation, groundwater, runoff, lake water, soil water content, etc.) and vegetation attributes (e.g., coverage rate, leaf area index, and biomass), alongside investigations into the coupling mechanism of regional water resources and vegetation.

Thus, we invite contributions exploring multi-source remote sensing data integration, multi-scale methodologies, and studies focused on vegetation and water use management, among other issues.

The special issue is focused on the following: vegetation health, water availability, vegetation stress, drought sustainable water management, agricultural water, multi-source data integration, leaf area index, biomass.





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Message from the Editor-in-Chief

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