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Remote Sensing of Vegetation Dynamics and Resilience

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Message from the Guest Editors

Over the last four decades, continuous monitoring of vegetation from space has allowed a deeper understanding of the links between the observed major global changes in vegetation dynamics and climate. The recent availability of reliable remote sensing data has progressively strengthened its role in environmental studies, in particular in those related to climate extremes.

In our days, the response of land vegetation to extreme events is still a challenging subject, as growth and CO2 uptake by plants are constrained to a large extent by droughts and heatwaves. Special attention has been devoted to long-term, large-scale studies aiming to assess the impact of atmospheric circulation variability on surface climate and related vegetation activity. Global and regional patterns of teleconnections have pointed to explain land ecosystems processes even better than single climate variables.

This Special Issue intends to be a useful and valuable demonstration of the added value of using remote sensing for vegetation dynamics studies worldwide, and a mean of stimulating multidisciplinary collaborations for land ecosystems dynamics understanding.

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Message from the Editorial Board

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