



Advances in Remote Sensing for Monitoring and Characterising Vegetation Responses to Changing and Extreme Climatic Conditions

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Message from the Guest Editors

Dear Colleagues,

Vegetation cover plays an essential ecological role in energy exchange and the material cycle. Unfortunately, climate extremes and climate change increase stressors that weaken plant resilience, disrupting forest structure and ecosystem services. The negative consequences of natural hazards associated with climate extremes, such as rising temperatures, wildfires, invasive pest outbreaks, and the loss and degradation of vegetation species and communities in various ecosystems and biodiversity. Thus, understanding the interdependence between extreme climate threats and vegetation dynamics and their response is needed to examine the mechanism of the climate–vegetation system and develop an effective management programme towards ecological conservation and targeted restoration policies for land use planning and environmental management. This Special Issue (SI) aims to bring together multidisciplinary scientists and specialists to develop Earth observation approaches that can improve our understanding of the impacts of climate extremes and change on vegetation ecosystems and therefore contribute to ecological sustainability management.





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Message from the Editor-in-Chief

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