



## Remote Sensing and Land Surface Process Models for Permafrost Studies

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### Message from the Guest Editors

Permafrost is an essential component of the cryosphere and occupies about 22% of the land surface of the Northern Hemisphere. Under global warming and extreme events, extensive degradation of permafrost has been widely observed in recent years. The hydrothermal processes are complex due to strong land–atmosphere interactions in the permafrost regions. Remote sensing technology and land surface process models have been providing the effective means of understanding permafrost change processes and their impact on the environment. A combined multi-source data, remote sensing technology and model approach provide an opportunity to further understand processes and mechanisms in the interactions between permafrost, climate, ecological and hydrological processes.

This Special Issue invites contributions dealing with the remote sensing technology and land surface process model for permafrost change processes and its environmental effects on different spatial and temporal scales, monitoring their dynamics, exploring the mechanisms of permafrost change process, and improving simulation accuracy based on the integrated use of remotely sensed data and in situ measurements.





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