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Remote Sensing and Land Surface Process Models for Permafrost Studies II

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Deadline for manuscript submissions:
closed (31 October 2023)

Message from the Guest Editors

Dear Colleagues,

Due to the overwhelming support and interest in the previous Special Issue, we are introducing a 2nd edition on "Remote Sensing and Land Surface Process Models for Permafrost Studies". I would like to thank all the authors and co-authors who made contributions to the success of the 1st edition of this SI.

Permafrost is an essential component of the cryosphere and occupies about 25% 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, making the frozen carbon vulnerable and more easily emitted as methane and carbon dioxide. An improved understanding of the mechanisms that drive changes in the permafrost thermal state and the associated environmental impacts is lacking due to the scarce ground monitoring data in permafrost regions. Remote sensing and land surface models have been the effective means of understanding permafrost dynamics and their responses associated with changes in climatic and environmental conditions.

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Message from the Editor-in-Chief

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