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# Remote Sensing of Snow and Its Applications

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Deadline for manuscript submissions:
**closed (31 March 2019)**

## Message from the Guest Editors

Dear Colleagues,

Snow cover is an essential climate variable directly affecting the Earth's energy balance. Surface temperature is highly dependent on the snow cover. Identification of snowmelt processes could significantly support water management, flood prediction and prevention.

Remote sensing provides a good understanding of snow cover and enable snow cover information to be assimilated into hydrological, land surface, meteorological and climate models for predicting and to warn about snow-related natural hazards.

This Special Issue encourages to submit covering all sensors and methods/models/algorithms in remote sensing of snow parameters and applications, including, but not limited to:

- Remote sensing techniques and methods for snow
- Modelling, retrieval algorithms and in-situ measurements of snow parameters
- Multi-source and multi-sensor remote sensing of snow
- Remote sensing and model integrated approaches of snow
- Applications where remotely sensed snow information used for such as weather forecasting, flooding, avalanche, water management, traffic, health and sport, agriculture and forestry, climate scenarios, etc.
- Copernicus Sentinels, etc.

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## Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherentset of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientificallybased political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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