



Understanding Snow Hydrology through Remote Sensing Technologies

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Message from the Guest Editors

Snow plays a fundamental role in the hydrological cycle, and it represents an important source of terrestrial water. Owing to the significant progress made in remote sensing techniques and the number of satellite missions launched in recent years, remote sensing is offering ever-increasing potential for the monitoring of snow properties at a high spatial and temporal resolution.

Some issues remain, however; these include the possibility of mapping SD/SWE in wet snow conditions using SAR/microwave radiometers; the acquisition of snow grain size information, which is critical for enhancing the accuracy of SD/SWE estimations; improvements in the spatial resolution of passive microwave observations from space; and the correction of weather effects in multispectral images in the mapping of SCA.

This Special Issue aims to provide an overview of the most recent advances in the remote sensing of snow properties in support of hydrological applications. Contributions that present both applications and processing techniques involving microwave and multispectral sensors alone or in combination are welcome.





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