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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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Message from the Editorial Board

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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