Special Issue

Advances in Remote Sensing of Snow Cover

Message from the Guest Editors

Seasonal snow provides water to approximately two billion people around the world. In mountainous areas, snow cover is a key component of the hydrological cycle because it governs how much and when water will be available downstream. This Special Issue aims to discuss the latest advancements in remote sensing to monitor snow cover dynamics and to therefore evaluate the snow water equivalent. Submissions of original and innovative research, especially in mountainous areas using different remote sensing techniques and ground observations that includes new approaches and algorithms are encouraged. Papers may cover but are not restricted to the following themes:

- Snow cover fraction assessment from image processing and AI algorithms
- Long-term snow cover mapping and spatiotemporal change
- Fusion techniques for snow cover mapping
- Snow water equivalent and modelling at the local and basin scales
- Deep learning and machine learning for snow parameter retrieval
- Remotely sensed snow data and their applications
- Operational use of snow cover on water management
- Experimental observatory and systems for snow monitoring

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

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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