

Special Issue

4D (Multi-Temporal) Remote Sensing: Opportunities, Challenges and Issues for Environmental Monitoring over Time

Message from the Guest Editors

In recent decades, multitemporal high-resolution topography (HRT; e.g., photogrammetry, LiDAR, GNSS) data sets are becoming increasingly available, improving our ability and opportunities to monitor landscape evolution at different scales and times. Indeed, some HRT techniques allow performing multitemporal (4D) surveys with adequate frequency to detect changes at an appropriately temporal scale at which surface processes operate. However, in order to obtain comparable results over time, it is necessary to implement methodologies and workflows that consider the issues associated with 4D surveys. Topics may cover any type of technology, from historical data (e.g., historical images) to novel HRT techniques (e.g., UAS-LiDAR). Hence, multisource data integration (e.g., multispectral, hyperspectral, and thermal), multiscale approaches or studies focused on data fusion and comparison of HRT techniques are welcome. Articles may address but are not limited to the following monitoring applications:

- Geomorphological changes;
- Soil erosion process;
- Land use changes;
- Agricultural and crop dynamics;
- Forest changes;
- Glacial and periglacial dynamics.

Guest Editors

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Deadline for manuscript submissions



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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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