



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

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Message from the Guest Editors

Dear Colleagues,

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.





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Message from the Editor-in-Chief

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