



Quantifying Landscape Evolution and Erosion by Remote Sensing

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Deadline for manuscript
submissions:

closed (31 May 2022)

Message from the Guest Editors

Quantifying landscape evolution and erosion are two of the hot topics in present-day geomorphological and active tectonic research. In this regard, remote sensing has experienced a great development in the last years providing one of the main tools to get information about the present-day topography and active processes. Worldwide Digital Elevation Models (DEM) obtained from RADAR or local ones constructed by UAV or LiDAR techniques are two of the main sources of information about the present-day topography at regional and local scales respectively. Multi-temporal studies based on series of optical images, InSAR techniques or DEMs of Differences approaches provide powerful information to detect, quantify and model changes in topography and understand underlying processes. Recently adopted 4D and real-time monitoring approaches allow to elucidate the role of individual events on erosion and to establish accurate frequency-magnitude relationships.

In this Special Issue we want to compile the state-of-the-art research that specifically addresses how remote sensing is being used in landscape evolution studies and to monitor, quantify and model erosion.





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