

## Special Issue

# Advanced Technologies for Water Erosion Mapping and Environmental Change Detection

### Message from the Guest Editor

Water erosion remains one of the most significant forms of land degradation worldwide, contributing to soil loss, reduced agricultural productivity, and sedimentation in river systems and reservoirs. This Special Issue aims to highlight the latest advances in mapping and monitoring water erosion using cutting-edge remote sensing and geospatial technologies. We invite contributions that demonstrate the application of unmanned aerial vehicles (UAVs), LiDAR, and high-resolution photogrammetry for the creation of digital elevation models (DEMs), which are critical for detecting erosion patterns and quantifying topographic change. Papers that integrate these technologies with GIS-based modelling, change detection analysis, and ground-based validation are especially encouraged. The Special Issue also welcomes studies focused on temporal erosion assessment, post-event landscape reconstruction (e.g., after floods or storms), and the monitoring of gully development, surface runoff, and landform evolution in both natural and agricultural landscapes.

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### Guest Editor

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### Deadline for manuscript submissions

20 June 2026



## Water

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## About the Journal

### Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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### Editor-in-Chief

Dr. Jean-Luc PROBST

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