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# Tools for Water Resources Monitoring, Water Erosion and Geomorphological Research

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Deadline for manuscript submissions: closed (30 June 2021)

### Message from the Guest Editors

Geomorphology in general, and soil erosion by water, have experienced a development in tools, methods and techniques. The result has been a democratization in the availability of accurate and high-resolution spatial data used to monitor, model and quantify geomorphological processes and water resources. Photogrammetry have allowed the production of point clouds, orthophotos and DEMs of surface. GNSS devices have provided the support for georeferencing datasets and RTK referencing of UAV platforms. Laser technology has contributed to the high-density point production of clouds of geomorphological features. Finally, the availability of big data datasets together with remote sensing technologies and the generalization of data mining, machine learning and model ensembling techniques have been adopted as tools for the study and monitoring of water resources and geomorphological processes-features or to perform restoration activities in degraded areas. This SI covers on the application of these techniques, works methodological developments for the study of water resources, water erosion and geomorphological processes in general.









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### Message from the Editor-in-Chief

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**Journal Rank:** JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

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