

Special Issue

Tools for Water Resources Monitoring, Water Erosion and Geomorphological Research

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 production of high-density point 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 works on the application of these techniques, methodological developments for the study of water resources, water erosion and geomorphological processes in general.

Guest Editors

Prof. Dr. Álvaro Gómez-Gutiérrez

Research Institute for Sustainable Land Development (INTERRA),
Universidad de Extremadura, 10071 Cáceres, Spain

Dr. J. Francisco Lavado Contador

Department of Art and Territory Science, INTERRA Research Institute
for Sustainable Territorial Development, University of Extremadura,
10071 Cáceres, Spain

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

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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.

Editor-in-Chief

Dr. Jean-Luc PROBST

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