



water

an Open Access Journal by MDPI



Sensing Technology for Flood Monitoring and Forecasting

Guest Editors:

Prof. Dr. Chong-Yu Xu

Department of Geosciences,
University of Oslo, N-0316 Oslo,
Norway

Prof. Dr. Hua Chen

State Key Laboratory of Water
Resources and Hydropower
Engineering Science, Wuhan
University, Wuhan 430072, China

Prof. Dr. Zengxin Zhang

State Key Laboratory of
Hydrology-Water Resources and
Hydraulics Engineering, Hohai
University, Nanjing 210098, China

Deadline for manuscript
submissions:

closed (31 March 2021)

Message from the Guest Editors

In recent years, more and more emerging technologies have been applied in water resource management. These technologies can be directly applied to the monitoring of hydrological variables and can also be indirectly applied to hydrological modeling, providing technical support for flood forecasting and warning in a basin. Such as RS technology can be applied to rainfall observation to obtain the continuous spatial distribution of rainfall, and it can also be used to monitor the changing of soil moisture, glaciers, lake water body, and flood inundation. Image recognition technologies are also widely used in water level and flow velocity monitoring, which provide new technical means for quickly obtaining water level and flow data. These sensing technologies greatly enrich the ways for flood forecasting and early warning and also provide strong technical support for improving the accuracy of flood forecasting.

This Special Issue is aimed at representing the latest advances on current efforts to aid advancing flood monitoring and management through new sensing technologies. We welcome contributions in all fields of remote sensing, flood modeling, flood monitoring.



mdpi.com/si/60909

Special Issue



water



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

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

Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/water
water@mdpi.com
[X@Water_MDPI](https://twitter.com/Water_MDPI)