Special Issue

Advances in Modelling of Rainfall Fields

Message from the Guest Editors

The aim of this Special Issue is to provide a collection of innovative contributions for rainfall modelling, focusing on hydrological scales and on a context of climate changes. In particular, the following topics are of interest:

- Statistical analysis of rainfall extremes, mainly focusing on Intensity-Duration-Frequency (IDF) curves and evaluation of Rainfall Thresholds;
- Temporal and spatial rainfall distribution;
- Transient Stochastic Rainfall Generators, suitable for obtaining long and perturbed time series into a context of climate changes;
- Models for rainfall nowcasting at hydrological scales, which can also couple several data sources (from rain gauge networks, weather radar, outputs from Limited Area Models) into a Bayesian framework;
- Rainfall downscaling

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Deadline for manuscript submissions

closed (15 May 2022)

About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

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High Visibility:

indexed within Scopus, ESCI (Web of Science), PubAg, GeoRef, and other databases.

Journal Rank:

JCR - Q2 (Water Resources) / CiteScore - Q1 (Earth-Surface Processes)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.6 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2024).