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Rainfall Infiltration Modeling

Guest Editors:

Prof. Dr. Renato Morbidelli
Department of Civil and Environmental Engineering, University of Perugia, via G. Duranti 93, 06125 Perugia, Italy

Dr. Carla Saltalippi
Department of Civil & Environmental Engineering, Universita degli Studi di Perugia, Perugia, Italy

Dr. Alessia Flammini
Department of Civil and Environmental Engineering, University of Perugia, Via G. Duranti 93, 06125 Perugia, Italy

Deadline for manuscript submissions:
closed (28 February 2020)

Message from the Guest Editors

Rainfall infiltration is an important part of the physics of the hydrologic cycle and plays a crucial role in the formation of surface runoff, providing subsurface water that governs the water supply for agriculture, the transport of pollutants through the vadose zone and the recharge of aquifers.

The spatio-temporal evolution of the infiltration rate under natural conditions cannot be currently deduced by direct measurement at any scale of interest in applied hydrology, therefore the use of infiltration modeling that allows it to be described through measurable quantities is of fundamental importance.

In spite of the continuous development of infiltration modeling, the estimation of infiltration at different spatial scales, i.e. from the local to the watershed scale, is a complex problem because of the natural spatial variability of both soil hydraulic characteristics and rainfall.

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Editor-in-Chief

Dr. Jean-Luc PROBST
Laboratory of Functional Ecology and Environment, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, 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.

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

Contact Us

Water Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/water
water@mdpi.com
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