Special Issue

Modeling of Soil Erosion and Sediment Transport

Message from the Guest Editor

The planned Special Issue will focus on the mathematical modeling of soil erosion caused by rainfall and runoff at a basin scale, as well as on the sediment transport in the streams of the basin. In concrete terms, the quantification of these phenomena by means of mathematical modeling and field measurements will be studied. Soil erosion products are transported by runoff into the streams of a basin and through the streams to the basin outlet, which may also be the inlet of a natural or artificial lake. Transport of large amounts of suspended sediment in the streams is mainly due to the frequency and intensity of rainfall events. Mud floods resulting from intense rainfalls of long duration are routed through the streams and have catastrophic consequences for both rural and urban settlements. The removal of fertile soil and the acceleration of reservoir sedimentation are some additional unfavourable sequels of soil erosion. Finally, soil erosion modeling informs actions against soil erosion.

Guest Editor

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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.

Editor-in-Chief

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