



Modeling of Soil Erosion and Sediment Transport

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

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.





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Message from the Editor-in-Chief

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