



Numerical Modeling of Surface Processes

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Message from the Guest Editor

Dear Colleagues,

The aim of this Special Issue of *Geosciences* is to provide an overview regarding the broad field of numerically modelling surface processes, with a special focus on landscape evolution and the formation of river networks.

To date, there are several numerical models that can dynamically reproduce the evolution of landscapes forced by atmospheric drivers such as precipitation and flowing water, but additional research is needed in order to reproduce all the involved phenomena in a physically-based manner. Indeed, because the processes acting in forming landscapes and river networks (water, sediment, vegetation, etc.) have different spatial and temporal scales, advanced modelling techniques should be taken into account, coupling classical methods with new approaches.

This Special Issue aims to cover, without being limited to, the broader field of reproducing the landscape evolution by means of numerical models, comparing traditional and advanced approaches and discussing the future steps towards a better representation of the natural environment.





Editor-in-Chief

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Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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