Special Issue

Monitoring and Modelling of Gully Erosion Using Remote Sensing Data and Spatial Modelling

Message from the Guest Editors

Gully erosion poses a significant threat to the environment worldwide, impacting soil and land functions. Human pressure and activities have, however, increasingly intensified land degradation and particularly the risk of gully erosion. Defining the location and rate of gully expansion for the purposes of generating inventory records and constant monitoring is essential. The main challenge is the establishment of an advanced strategy for continuous monitoring and mitigation of the issues for environmental protection. High- and moderate-resolution remote sensing data, with the aid of GIS tools, deliver state-of-the-art information for the detection of gully erosion and risk modelling processes. Various models may be developed with a special emphasis on natural resources and environment to recognize and manage the gully erosion and effects. In this Special Issue, we want to gather state-of-the-art research that directly explores how various types of remote sensing data coupled with deep learning and new machine learning algorithms are used in gully erosion studies to monitor, quantify, and model erosion.

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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