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

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Message from the Guest Editors

Dear Colleagues,

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.

Special Issue

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Message from the Editor-in-Chief

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