Special Issue

Soil Erosion Modeling and Monitoring

Message from the Guest Editor

Some of the most important changes that soils have undergone in arid and semiarid regions, where the distribution and intensity of precipitation and wind are irregular, are the consequence of human communities, which have accelerated soil erosion rates and rerouted nutrient flows. When land use changes, along with the fragility of the soil (low levels of organic matter, aggregate stability and nutrients), these regions become very prone to water generation or wind erosion. These processes move enormous amounts of soil, with a consequential ecological imbalance. In this framework, soil erosion, by itself and also in its overriding role in desertification, has become a matter of public concern and intense research.

The Special Issue should present the main studies carried out with the purpose of providing an overview of the key factors and processes influencing soil erosion processes, examining the achievements and main challenges in erosion prediction, identifying major gaps in knowledge and recommending further research oriented towards the mitigation of soil erosion and its negative impacts.

Guest Editor

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