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## Monitoring and Control of Soil and Water Erosion

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### Message from the Guest Editors

Soil and water erosion monitoring and control have witnessed significant advancements over time. The continuous efforts in understanding and mitigating the impacts of erosion on the environment and agricultural lands have led to the development of sophisticated monitoring and control strategies. The evolved monitoring techniques entail the integration of remote sensing technologies, geographical information systems (GIS), and advanced modeling tools. These advancements allow for the real-time assessment of erosion-prone areas, helping in the identification of vulnerable regions. In terms of control measures, the traditional practices have been complemented with innovative strategies. Conservation tillage, contour plowing, and cover cropping remain the fundamental methods, but modern interventions include the use of erosion-control blankets, bioengineering solutions, and sustainable land management practices. These contemporary approaches aim not only to prevent erosion but also to enhance soil fertility and biodiversity. Additionally, the integration of data-driven decision-making processes has become crucial.



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# Special Issue



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