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Application of New Technologies in Water and Soil Conservation and Soil Erosion

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Message from the Guest Editors

There has been development in monitoring techniques for soil erosion and soil and water conservation over the last hundred years. Various modern monitoring techniques have been applied in soil and water conservation as well as soil erosion monitoring. For example, modern topographic survey, including GIS, unmanned aerial vehicle, 3D laser scanner, etc., could provide highly accurate data at various spatial and temporal scales based on landform evolvement; radionuclide tracing has the advantages of being cost-efficient and easy in practice to obtain soil erosion rate data; historical erosion information can be deduced by collecting deposited sediment in reservoirs, ponds or lakes and analyzing their physicochemical properties;. Based on modern monitoring techniques such as sensors and remote data transmission, contemporary in situ observation is a new concept for erosion monitoring, and it is an important direction for the development of promptly responding, automatic, and systematic monitoring techniques. This Special Issue will focus on the application of new technologies in water and soil conservation as well as soil erosion.

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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