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Application of Remote Sensing and Geographic Information System in Hydrology and Climate Change

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Deadline for manuscript submissions:
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Message from the Guest Editors

The increase in temperature and evapotranspiration expected under the current global warming scenario, with an overall decrease in precipitation, is changing hydrological responses, with significant implications for water management. Climate change may, therefore, lead to substantial impacts on hydrology and the availability of water resources.

GIS and Remote Sensing provide analysis and modeling tools. The hydrological response to the modification of climatic parameters can be investigated by means of hydrological simulation and spatial modeling analyses, enabling the exploration of different scenarios which are necessary for prevention and decision making. This Special Issue will focus on applications developed from GIS and remote sensing for the research of changes in hydrological processes caused by the effects of climate change. Topics include the geomorphological transformations of watercourses and basins; modifications in land use and land cover; the management and quality of water resources; the effect of natural risks on the surrounding productive activities.

The special issue website at:

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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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