Special Issue

Land Use-Land Cover Changes and Implications in Runoff and Flooding Phenomena

Message from the Guest Editor

Land use–land cover changes and climate change constitute the foremost drivers of hydrological processes, influencing the flow regimes in catchments, while posing severe levels of flooding threat. Deforestation from forest fires and human interference, urbanization, agricultural expansion, and geomorphological changes of river channels are attributed to both natural causes and expansive human behavior, triggering dramatic changes in infiltration rates, surface roughness, water-holding capacity, overland runoff volume, erosion, and sediment deposition. The behavior of vegetated land is mainly regulated by plant roots, while an increase in impervious areas can result in an increase in streamflow and recurrent flooding. Land Use and Land Cover enhanced runoff generation[...]. The main goal of this Special Issue is to bring together studies on impacts of land use–land cover changes on hydrological hazards, such as, runoff, floods, erosion, sediment deposition, desertification, and land degradation in different regions of the world. For more details, please visit: https://www.mdpi.com/journal/water/special_issues/land_use_land_cover_runoff_flood

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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.

Editor-in-Chief

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