Special Issue

Application of Remote Sensing in Hydrogeology: Landslides, Land Subsidence and Uplift

Message from the Guest Editor

Hydrogeology requires a multidisciplinary approach and interdisciplinary research aimed at investigating the interaction between water and geological systems. Rainfall precipitation, infiltration, and groundwater are some of the most important landslide triggering factors, increasing the pore water pressure and decreasing the shear strength of the soil. Groundwater deficits may trigger compaction of aquifers resulting in land subsidence. Uplift can also be related to the groundwater level changes following the interruption of water pumping, or climatic drivers.

Remote sensing for earth observation, including synthetic aperture radar (SAR), optical, multi/hyper-spectral, thermal imagery, aerial photography, and unmanned aerial vehicles (UAVs), are useful tools for investigating groundwater level change impacts at the local and global scales with different spatial and temporal resolution.

The goal of this Special Issue of Remote Sensing is to gather original research or case studies on the detection, characterization, and modelling of landslides, land subsidence, and uplift due to groundwater level changes.

Guest Editor

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

Editor-in-Chief

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