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Remote Sensing Analysis for Flood Risk

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Message from the Guest Editors

Due to the many natural disasters caused by floods, nowadays flood warning and prediction is one of the most important non-structural methods for flood control and hydrology management, agriculture, and reducing the flood risk and damage. The increase in population and changes in land use, afforestation, etc., has led to a significant expansion of urban and rural facilities. Space remote sensing (RS) technology can help us identify areas prone to flooding. By using the techniques of RS and GIS, it is possible to monitor areas with high flood probability and provide management solutions in the event of a flood. After the end of the flood, by studying repeated images, the time required for water to penetrate the ground, natural drainage, and water evaporation can be monitored to a large extent, and the dynamics of floodplains near rivers can be observed. The most important features of remote sensing that have generated its popularity in flood studies include repeatability, comprehensiveness, and access to past data.

This Special Issue aims to collect studies and experiences aimed towards aiding and advancing flood monitoring and mapping through remotely sensed data.

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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.

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