



Remote Sensing Analysis for Flood Risk

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Deadline for manuscript
submissions:

closed (15 May 2024)

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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