



Flood Monitoring, Modelling, Forecasting and Analysis with Remote Sensing Tools

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Message from the Guest Editors

Remote sensing technology has become an important tool to monitor natural disasters due to its advantages of large space coverage, short revisit periods, and abundant observation variables (e.g., rainfall, soil moisture, water storage, altimetry, water surface area, etc.). It is of great value to further investigate the information and expand the application of remote sensing data to promote research into flood monitoring, modelling, forecasting and analysis. Therefore, this Special Issue invites papers on the following topics:

- Flood monitoring using multi-sensor remote sensing data;
- Flood monitoring algorithms based on new technologies such as machine learning;
- Flood monitoring in obstacle areas (urban, vegetated, and mountain areas, etc.) or special land cover regions (desert and snow regions, etc.) with remote sensing data;
- Calibrating and validating flood models, and data assimilation, using remote sensing data;
- Flood forecasting using remote sensing data (such as soil water, rainfall data, etc.);
- Analysis of flood hazards, risk, damages, vulnerability, resilience, etc., using remote sensing data.





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Message from the Editor-in-Chief

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