



Improving Flood Detection and Monitoring through Remote Sensing

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Deadline for manuscript
submissions:

closed (30 April 2021)

Message from the Guest Editors

Dear Colleagues,

Measures to increase defenses against floods and reduce flood damages are more and more urgent, as floods are emerging as one of the most frequent and incisive disasters due to climate change. Gaining sufficient knowledge about the extent, duration, and more generally, time evolution of flood events is a necessary step toward this goal. This information can be used to draw maps of expected return periods for events of a certain magnitude.

Remote sensing is traditionally recognized as one of the most cost-effective technologies to gain detailed information about large areas of the earth surface. Its use in the monitoring of floods and inundations dates back to the first sensors and algorithms. In recent years, the wider availability of images from both radar and optical sensors, their low to null cost, and their tight and reliable acquisition schedules are opening the path to unprecedented levels of detail about inundation events, both on urbanized and remote areas.

[...]

For further reading, please follow the link to the Special Issue Website at:

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[Flood_Remote_Sensing](#)





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Message from the Editor-in-Chief

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