



Remote Sensing of Global Floods: Observing, Modelling, and Forecasting

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Deadline for manuscript
submissions:

closed (26 July 2024)

Message from the Guest Editors

Floods threaten urban and agricultural communities and ecosystems. The escalating humanitarian and financial damages underscore the imperative need for flood management, control, and mitigation strategies. Geospatial science is a pivotal player in these efforts, mainly using a non-structural approach. Flood monitoring enabled by spaceborne observations coupled with artificial intelligence algorithms has transformative potential in designing modern early detection, flood response, and management systems.

The primary aim of this Special Issue is to advance geospatial science's role in flood management. With a specific focus on satellite observations and artificial intelligence algorithms, the goal is to showcase innovative research contributing to efficient flood monitoring. This Special Issue seeks to facilitate interdisciplinary discussions, highlighting novel methodologies and spatial modeling techniques utilizing GISs, artificial intelligence, statistical methods, and multi-criteria decision making. With this goal in mind, this Special Issue aims to significantly contribute to improving flood mitigation.





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Message from the Editor-in-Chief

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