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Application of Remote Sensing to Flood and Drought Analysis, Monitoring and Risk Management

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Message from the Guest Editor

Floods and droughts are two of the most devastating natural hazards affecting populations, property and infrastructure. It has caused considerable human and economic damage over the past 20 years. Climate change is expected to increase the frequency and intensity of these events, making it more important than ever to develop effective strategies for their monitoring and management.

Remote sensing (RS) has become an essential tool for assessing these hydro-climatic risks, providing timely and accurate information on their extent, severity, and impact over large areas and at regular intervals. This information can be used to support a variety of activities, including (1) climate monitoring; (2) early warning systems; (3) emergency response; (4) recovery efforts; and (5) risk assessment and management.

This Special Issue welcomes papers that (1) deal primarily with RS applied to hydro-climate risks, but also use modeling and ground observations for illustration; (2) Manuscripts on applications of RS to the study of single events and regional analysis; (3) Case studies and papers on early warning, monitoring, and disaster management.

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Message from the Editor-in-Chief

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