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Real-Time Flood Monitoring and Prediction Using Integrative Remote Sensing and AI

Guest Editors:

Dr. Pietro Ceccato

Copernicus Emergency Management Service, On-Demand Mapping, European Commission, Joint Research Centre, 21027 Ispra, Italy

Pekel Jean-François

Copernicus Emergency Management Service, On-Demand Mapping, European Commission, Joint Research Centre, 21027 Ispra, Italy

Dr. Peter Salamon

Copernicus Emergency Management Service, European Commission, Joint Research Centre, 21027 Ispra, Italy

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Message from the Guest Editors

Climate change forecasters predict an increasing number of intense precipitation events with consequent flashes, riverine, and urban floods. An accurate and rapid mapping of these phenomena is a key component of effective emergency management and disaster risk reduction plans. Big data on Earth observation, such as the data acquired by the Copernicus programme, are providing unprecedented opportunities to help forecast and monitor floods.

Spatial information derived from remotely sensed data (e.g., satellites, aircrafts, and drones) or models associated with artificial intelligence is playing an increasingly important role in forecasting and monitoring in the different types of floods in real time.

This Special Issue of Remote Sensing solicits papers that present innovative remotely sensed data, as well as hydrological models combined with artificial intelligence techniques to support monitoring and forecasting floods (especially in urban areas), in order to support efforts to better manage flood crises.











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Editor-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

Message from the Editor-in-Chief

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