Special Issue

Storms and Floods Analysis Based on the Fusion of Satellite, Meteorological and Ground Station Observation Data

Message from the Guest Editors

Floods and storms are among the most devastating natural hazards, with increasing frequency and intensity due to climate change and anthropogenic activities. The accurate monitoring, prediction, and risk assessment of these events require integrating multi-source data, including satellite remote sensing, meteorological models, and ground-based observations.

This Special Issue aims to focus on advancing the integration of multi-source Earth observation data for the improved monitoring, analysis, mechanisms, and prediction of flood and storm hazards. As climate change exacerbates the frequency and severity of these events, there is an urgent need to leverage synergies across satellite remote sensing, meteorological models, and ground-based measurements to enhance hazard assessment and early warning systems.

We invite contributions that address challenges and opportunities in data fusion, such as improving spatiotemporal resolution, strengthening physical understanding, enhancing predictive accuracy, and developing early warning systems.

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Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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