Special Issue

Remote Sensing of Precipitation Extremes

Message from the Guest Editors

Extreme rainfall and snowfall are key parameters for studying and monitoring hydro-meteorological events also from a climatological perspective. Extreme events are likely to increase in frequency and severity in the near future due to climate change. Recent developments in satellite-based precipitation products (i.e., high spatio-temporal resolution, quasi-global coverage, and free near-real-time data availability) open new doors for further development in water-related applications. The aim of this Special Issue is to present advances and new findings in satellite-based precipitation products for extreme rainfall monitoring and analysis. We solicit contributions focusing on various aspects, including, but not limited to:

- Development of new observation strategies and algorithms for precipitation monitoring;
- Characterization of extreme precipitation events;
- Use of satellite-based precipitation estimates to predict floods and droughts;
- Downscaling and bias correction of satellite-based precipitation products;
- Development and implementation of machine learning techniques for monitoring extreme precipitation events.

Guest Editors

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Prof. Dr. Silas Michaelides

Prof. Dr. Vincenzo Levizzani

Deadline for manuscript submissions

closed (15 May 2025)

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Message from the Editor-in-Chief

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.

Editor-in-Chief

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