

Special Issue

Recent Advances in Precipitation Radar

Message from the Guest Editor

The goal of this Special Issue is share the recent achievements in various applications using operational or research radar data (e.g., field observation campaign, rainfall estimation, chaff diffusion in clear sky, nowcasting of precipitation, microphysical features of precipitation systems, hydrological modeling and forecasting in severe weather using Doppler radar and polarimetric radar. We encourage contributions on the current state-of-the-art in the field, including challenges and discussions toward the better utilization of radar data. We invite manuscripts on the following topics:

- Field observation campaign;
- Radar data quality control;
- Quantitative precipitation estimation;
- Wind field retrieval and analyses;
- Short-term forecast of precipitation;
- Assimilation of radar data into NWP;
- Orographic/topographic precipitation;
- Hydrological applications using weather radar;
- High-impact weather such as hail, tornado, typhoon and lightning;
- Atmospheric diffusion by chaff experiments;
- Torrential rainfall and nowcasting;
- Hydrometeo classification in clouds and precipitation.

Guest Editor

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Deadline for manuscript submissions

closed (15 March 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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