



Radar Hydrology and QPE Uncertainties

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Message from the Guest Editors

Dear Colleagues,

The goal of this Special Issue is to embrace and connect a variety of established and ongoing yet scattered research activities regarding precipitation estimation and subsequent hydrologic applications, as well as the uncertainty characterization of precipitation estimates and its propagation through hydrologic modeling procedures. We encourage contributions from the following topics:

- Radar-based precipitation estimation and analysis;
- Radar-based hydrologic modeling and forecasting;
- Analysis of precipitation estimation uncertainties associated with (space and time) scale-dependent variability;
- Spatiotemporal modeling of precipitation estimation uncertainties;
- Radar-based short-term precipitation forecasting and data assimilation;
- Radar-based analysis of extreme events;
- Urban hydrologic applications using weather radar;
- Probabilistic approaches in radar-based hydrologic applications;
- Data-intensive techniques in precipitation estimation and hydrologic applications;
- Time and space variability of precipitation and hydrologic processes



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Special Issue



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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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