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Advances in Applications of Weather Radar Data

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Deadline for manuscript submissions:
closed (31 July 2019)

Message from the Guest Editors

This Special Issue focuses on the recent achievements and lessons learnt in various applications using operational or research radar data; e.g., QPE, very short-term forecasting of precipitation, precipitation climatology, hydrological modeling and forecasting, natural hazard assessment, aviation, road management, and even for some applications of non-meteorological weather radar observations. We encourage contributions on the current state-of-the-art in the field, including challenges and discussions toward better utilization of radar data.

We invite manuscripts on the following topics:

- Radar Networking
- Radar data validation or merging with other sensors (ground/spaceborne based instruments)
- Quantitative Precipitation Estimation
- Nowcasting techniques
- Assimilation of radar data in NWP
- Hydrological applications using weather radar
- Use of weather radar data in natural hazard assessment, agriculture, insurance, road management
- Studies on non-meteorological radar data

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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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