



## Retrieval of Cloud and Precipitation by Ground-Based Radar and In Situ Observations: Application to Atmospheric and Volcanic Ash Clouds

Guest Editors:

**Dr. Mario Montopoli**

National Research Council of Italy - Institute of Atmospheric Sciences and Climate (CNR - ISAC), 00133 Rome, Italy

**Dr. Gianfranco Vulpiani**

Civil Protection Department, The Council of Ministers, 00193 Rome, Italy

**Dr. Elisa Adirosi**

National Research Council of Italy - Institute of Atmospheric Sciences and Climate (CNR - ISAC)

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### Message from the Guest Editors

*Remote Sensing* dedicates this Special Issue to the ground-based techniques for the estimation of cloud and precipitation parameters. The mechanisms of energy balance variations are complex and not entirely understood and they potentially have a role in the climate modifications. For these reasons, it is essential to have information about the distribution and variability of the clouds and precipitation properties all over the Earth on a long-term basis.

This Special Issue has the ambition to collect multidisciplinary initiatives in the fields of heterogeneous clouds and precipitation using ground-based sensors. A non-exhaustive list of potential thematic tracks could be: rain/solid precipitation microphysical parameter estimation, severe storm processes analysis and nowcasting, satellite and ground-based multi-sensors data fusion, data assimilation, radar and in situ networking at regional, national and continental level, urban scale monitoring and early warning tools, winter storms, description of ground-based climate records and observatories, algorithm innovations, validation studies, volcanic clouds observations from ground based sensors.





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### Dr. Prasad S. Thenkabail

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Center (WGSC), 2255, N. Gemini  
Dr., Flagstaff, AZ 86001, USA

## Message from the Editor-in-Chief

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*Remote Sensing* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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