



Electromagnetics and Polarimetric Weather Radar

Guest Editors:

Prof. Dr. Viswanathan Bringi

Department of Electrical and
Computer Engineering, Colorado
State University, Fort Collins, CO,
USA

Dr. Merhala Thurai

Department of Electrical and
Computer Engineering, Colorado
State University, Fort Collins, CO,
USA

Deadline for manuscript
submissions:

closed (15 January 2020)

Message from the Guest Editors

This Special Issue, while largely dedicated to the role of electromagnetics in dual-polarization weather radars, has a much broader scope and includes radio wave propagation, scattering models for complex shaped hydrometeors, the polarimetric-basis for retrieval of microphysical parameters and processes, microphysical models and coupled radar forward models, rainfall estimation, winter precipitation estimation, hydrometeor classification, and so on. With the rapid advances in phased array technology, articles describing the polarimetric measurement accuracies or recent measurements from such advanced radars are invited. Articles involving the polarimetric radar studies of non-meteorological phenomena, such as insects and bird migration, are also welcome.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Ilias Kavouras

Environmental, Occupational,
and Geospatial Health Sciences,
CUNY School of Public Health,
New York, NY 10027, USA

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!

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

Contact Us

Atmosphere Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/atmosphere
atmosphere@mdpi.com
[X@Atmosphere_MDPI](https://twitter.com/Atmosphere_MDPI)