Special Issue

Intelligent Modeling of the Ionosphere and Troposphere for Radio Application (2nd Edition)

Message from the Guest Editors

This Special Issue is the second edition in a series of publications dedicated to "Intelligent Modeling of the Ionosphere and Troposphere for Radio Application". Since the latter half of the 20th century, the rapid advancement of wireless communication technology has profoundly influenced every facet of daily life, creating an imperative and practical demand for comprehending space weather in the cognitive realm. This Special Issue aims to improve our understanding of the characteristics of the electromagnetic environment and wave propagation in the ionosphere and troposphere for radio applications using intelligent modeling techniques. This Special Issue welcomes papers that discuss innovative multidisciplinary and multiparameter methods and applications for the modeling of phenomena in the solar activity cycle, the ionosphere, and the troposphere, as well as the possible interactions and indications of electromagnetic effects.

Guest Editors

Dr. Jian Wang

Prof. Dr. Yu Zheng

Dr. Jieqing Fan

Dr. Na Li

Dr. Cheng Yang

Deadline for manuscript submissions

29 May 2026

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/224325

Atmosphere
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

mdpi.com/journal/atmosphere

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/journal/atmosphere

MDPI

About the Journal

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!

Editor-in-Chief

Dr. Daniele Contini
Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

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))