Special Issue

Advancements in Ionospheric Research: Remote Sensing, Space Weather Impacts, and Machine Learning

Message from the Guest Editors

The ionosphere, a critical layer of the Earth's atmosphere, plays a vital role in various fields such as satellite communication, navigation, and space weather forecasting. This Special Issue will cover a broad range of topics, including, but not limited to, the following:

- Innovative remote sensing techniques: New methods and technologies for ionospheric monitoring.
- Space weather impact studies on communications: Research on the effects of ionospheric disturbances on communication systems, satellite operations, and other technological infrastructure.
- Data processing and analysis: Advanced algorithms and data processing techniques for extracting meaningful information from remote sensing data.
- Ionospheric modeling and machine learning: Development of new models and simulations to better understand ionospheric behavior and predict its response to various phenomena.

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Message from the Editorial Board

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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