

## Special Issue

# Application of GNSS Remote Sensing in Ionosphere Monitoring

### Message from the Guest Editors

The ionosphere, a dynamic region of the Earth's upper atmosphere, plays a pivotal role in the propagation of radio waves, global navigation, and space weather phenomena. Accurate monitoring and modeling of the ionosphere are essential for mitigating the adverse effects of ionospheric disturbances on communication systems, navigation solutions, and satellite operations. Global Navigation Satellite System (GNSS) remote sensing has emerged as a powerful technique for probing the ionosphere's electron density and behavior. This Special Issue delves into the application of GNSS remote sensing in monitoring the ionosphere, fostering a deeper understanding of this critical Earth–space environment. Improved monitoring of the ionosphere holds profound significance for various sectors, from enhancing the reliability of satellite-based navigation systems to bolstering our preparedness against space weather disturbances. By presenting a diverse array of research findings and practical implementations, this Special Issue illuminates the collaborative efforts aimed at harnessing GNSS remote sensing's potential to unravel the complexities of the ionosphere on a global scale.

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### Guest Editors

Dr. Lei Liu

Dr. Zihan Wang

Dr. Jun Wang

Prof. Dr. Yunbin Yuan

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### Deadline for manuscript submissions

closed (30 May 2025)



## Remote Sensing

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### Message from the Editor-in-Chief

*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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### Editor-in-Chief

Dr. Prasad S. Thenkabail

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