



Application of GNSS Remote Sensing in Ionosphere Monitoring

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Deadline for manuscript
submissions:

31 October 2024

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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Message from the Editor-in-Chief

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