Special Issue

Satellite Measurements and the Monitoring of Ionosphere and Space Weather

Message from the Guest Editors

This Special Issue aims at studies covering the use of satellite measurements for characterizing the ionosphere and near□Earth environment plasma conditions with implications on Space Weather applications. Contributions covering, but not restricted to, the following topics are welcomed: 1) Investigation and modeling of the topside ionospheric plasma through in situ measurements on-board Low Earth Orbit (LEO) satellite missions such as ESA Swarm, CSES, C/NOFS, DMSP, and ICON; 2) Calibration and validation of plasma in situ satellite measurements against remote sensing observations from ground-based and space-based instruments and empirical models; 3) Studies on the multiscale properties of the ionosphere through ionospheric indices such as RODI, ROTI, and ROTEI and comparison with empirical ionospheric models; 4) Characterization of the ionospheric plasma under severe Space Weather events, relations with external source mechanisms of magnetospheric and solar wind origin, and impact on the technological systems; 5) Theoretical studies and modeling of the ionospheric plasma dynamics.

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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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