

Announcement of a Special Issue
Advances in Space Research

International Reference Ionosphere – Improved Real-Time Ionospheric Predictions with Data from Spaceborne Sensors and GNSS

Papers are invited for a special topical issue of *Advances in Space Research* (ASR) entitled “**International Reference Ionosphere – Improved Real-time Ionospheric Predictions with Data from Spaceborne Sensors and GNSS**”.

The International Reference Ionosphere (IRI) is the international standard for the description of Earth’s ionosphere and recognized as such by many international organizations including COSPAR, URSI, ITU, and ISO. With this special issue we are inviting contributions that report on all aspects of improving this international standard model. IRI is an empirical model based on a large volume of the most reliable ground-based and space observations of the ionospheric plasma. We invite contributions that assess the performance of the model by comparing the IRI predictions with new data sets not yet used in the model developments. Of great interest are papers that present new modelling approaches and/or new models for specific parameters or specific regions for future inclusion in IRI. In recent years different methods of assimilating real-time or retrospective data into ionospheric models has been a hot topic and we invite papers reporting on related studies involving the IRI model. The IRI model is widely used for many applications, and we encourage model users to report about their specific usage of the model.

We welcome high quality and relevant manuscripts from all scientists involved in International Reference Ionospheric Research.

Papers must be submitted electronically to <https://www.editorialmanager.com/AISR>. To ensure that all manuscripts are correctly identified for inclusion into the special issue, authors must select “**Special Issue: IRI with satellite data**” when they reach the "Article Type" step in the submission process.

The general format for submission of papers can be found on the *ASR* Elsevier web site at <http://www.journals.elsevier.com/advances-in-space-research/>

Submitted papers must be written in English and should include full affiliation postal addresses for all authors. Only full-length papers will be considered for publication, subject to peer review by a minimum of two reviewers. There are no page limits although the length of the paper should be appropriate for the material being presented. While the deadline for submissions is **31 March 2024**, papers will be published electronically as soon as they are accepted. Please do not expect the deadline to be extended. The printed issue will be assembled within a reasonable time with late papers being printed in regular issues of ASR. All articles will be typeset at no cost to the author. While there is a charge for printing color figures, there is no charge for color figures on the electronic version.

Dr. Dieter Bilitza (dbilitza@gmu.edu) and **Prof. Yong-Ha Kim** (yhkim@cnu.ac.kr) are the Guest Editors for this special issue. Questions can be directed to Dr. Bilitza, Prof. Kim or to the ASR Co-Editor for Special Issues, Dr. Peggy Ann Shea (sssrc@msn.com).