

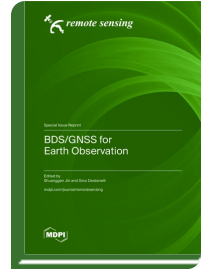


Special Issue Reprint

BDS/GNSS for Earth Observation

www.mdpi.com/books/reprint/8067

Edited by
Shuanggen Jin
Gino Dardanelli



ISBN 978-3-0365-8996-1 (Hardback)
ISBN 978-3-0365-8997-8 (PDF)

This reprint of the Special Issue "*BDS/GNSS for Earth Observation*" highlights and discusses major aspects of Earth monitoring. Among the most noteworthy works are articles presenting variations in the plasmaspheric total electron content (TEC) and correlations between the seismo-ionospheric anomalies of GNSS-TEC and earthquake energy. Those addressing the analysis of the Earth's ionosphere employ two new methods developed for determining the optimal thin layer ionospheric height in the polar regions and for estimating the multi-GNSS differential code bias without using the ionospheric function model. In addition, the troposphere is investigated using a modified interpolation method of multi-reference station tropospheric delay. There are two papers addressing precise orbit determination, employing the Haiyang-2b altimetry satellite and GRACE-FO antenna phase center modeling. Works on GNSS signals are also published, with variations in multi-channel differential code biases from new BDS-3 signal observations, and the modelling and assessment of a new triple-frequency IF1213 PPP with BDS/GPS. Furthermore, GNSS precipitable water vapor (PWV) and its applications are discussed with regard to individual station meteorological data, while three other works examine improvements in iGNSS-R ocean altimetric precision, maritime multiple moving target detection using multiple-BDS radar, and a regional groundwater storage anomaly by combining GNSSs and surface mass load data. Lastly, a review addressing the application of multi-GNSS for Earth observation and its emerging applications is presented.



Order Your Print Copy
You can order print copies at
www.mdpi.com/books/reprint/8067

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.