Topical Collection

Multi-GNSS Precise Positioning and Applications

Message from the Collection Editors

Precise, cm-level satellite positioning is possible through the tracking of radio-frequency signals of the pseudo-range (code) and carrier-phase types. This has traditionally required expensive GPS receivers and antennas that cost several thousands of dollars. In the past few years, however, there has been a development of mass-market, low-cost, single- and multi-frequency receivers (and smartphones), which are able to track the code and phase signals from several regional and global navigation satellite systems (RNSSs/GNSSs). These RNSSs/GNSSs include BDS (China), Galileo (Europe), QZSS (Japan), NavIC (India) and GLONASS (Russia), and the lower cost enables precise GNSS positioning for a range of new applications. There has also been a recent development in low Earth orbit (LEO) satellites that can help to improve the positioning performance further when augmented with GNSS. This Special Issue aims to highlight the development of such multi-GNSS positioning models and the performance that can be obtained. For more information, please click: mdpi.com/si/51951.

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