



Precise Orbit Determination with GNSS

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Message from the Guest Editor

In the last twenty years, although a very complex and diversified service network has been built over global navigation satellite systems (GNSS), all these services definitely rely on the capability of precisely and almost continuously determining the position and velocity of each GNSS spacecraft, by routinely performing what is called a precise orbit determination (POD). At present, the various GNSS networks are increasingly integrating with important research areas in geodesy and geophysics (think about the ongoing global geodetic observing system—GGOS), and generally in Earth system sciences.

The aim of this Special Issue is to host both research and review articles related to the POD of satellites belonging to the various GNSS constellations, including (but not limited to):

- Orbit determination status of a given constellation;
- Dedicated procedures for orbit determination and parameter estimation;
- Contributions to geodesy and geophysics;
- Satellite dynamics modelization;
- Constellation-specific issues (e.g., biases);
- Future use of on-board accelerometers;
- Current and future implementations of laser ranging tracking;
- Orbit determination software;
- Ground segment for satellite tracking.





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Message from the Editor-in-Chief

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