



LEO-Augmented PNT Service

Guest Editors:

Prof. Dr. Kan Wang

Prof. Dr. Ahmed El-Mowafy

Dr. Xuhai Yang

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submissions:

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Message from the Guest Editors

In this Special Issue, we aim to study diverse components that contribute to the LEO-augmented PNT service, including (but not limited to) signal processing and analysis, sensor calibration/validation, and determination and prediction of the LEO satellite orbits and clocks. In addition, this Special Issue aims to explore the possible benefits of the PNT service and its integrity monitoring brought by the LEO mega-constellations, including strategy design, algorithm development, and data analysis based on simulations and experiments.

Research areas may include (but are not limited to) the following:

- LEO POD and prediction;
- Integrated LEO-GNSS POD;
- LEO satellite clock analysis and prediction;
- LEO-augmented GNSS positioning and navigation;
- Frequency and time transfer under LEO augmentation;
- LEO signal processing and analysis;
- Integrity monitoring of LEO satellite orbits and clocks;
- Integrity monitoring of LEO-augmented ground-based positioning;
- Quality control of LEO signals;
- Constellation design of LEO satellites;
- Calibration/validation of spaceborne and terrestrial sensors related to LEO satellite signals.





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Dr. Prasad S. Thenkabail

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Dr., Flagstaff, AZ 86001, USA

Prof. Dr. Dongdong Wang

Institute of Remote Sensing and
Geographic Information Systems,
Peking University, Beijing, China

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Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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