



an Open Access Journal by MDPI

International GNSS Service Validation, Application and Calibration

Guest Editors:

Prof. Dr. Serdjo Kos

Faculty of Maritime Studies,
University of Rijeka, Studentska
2, 51000 Rijeka, Croatia

serdjo.kos@pfri.uniri.hr

Prof. Dr. Juan F. Prieto

Departamento de Ingeniería
Topográfica y Cartografía,
Universidad Politécnica de
Madrid, Madrid, Spain

juanf.prieto@upm.es

Prof. Dr. José Fernández

Instituto de Geociencias IGEO
(CSIC-UCM), Madrid, Spain

jft@mat.ucm.es

Deadline for
manuscript submissions:
15 October 2023

Message from the Guest Editors

It has been proven that GNSS remote sensing can be utilized as a substitute for passive remote sensing, but its widespread use needs to be validated and calibrated.

The goal of this Special Issue of Remote Sensing is to provide researchers with a venue to share ground-breaking research that pushes the limits of using real-time GNSS in a variety of applications, as well as validation and calibration techniques. The following are just a few examples of potential topics:

- GNSS precise positioning applications in geodesy;
- GNSS signal processing and calibration;
- Precise non-linear motion modelling of GNSS reference stations and their physical mechanisms;
- Aided real-time GNSS precise positioning services and sensor fusion in challenging environments;
- Identification of GNSS error sources and mitigation mechanisms;
- GNSS augmentation systems and integrity monitoring;
- Real-time GNSS precise positioning services with smartphones;
- Geohazard monitoring of volcanos, earthquakes, subsidence and landslides;
- Connected and autonomous vehicles;
- Integrated applications of BIM and digital twins in infrastructure;
- Monitoring the Earth's ionosphere and troposphere;
- Monitoring deformations of the solid Earth and variations in the hydrosphere;
- Time and frequency transfer;
- Earth rotation;
- Atmospheric parameters;
- Supporting geodetic research.

