

Special Issue

Precise Positioning with Smartphones

Message from the Guest Editors

Over the last few years, many smartphones have been equipped with Global Navigation Satellite System (GNSS) technology. After the release of the Android Nougat operating systems, raw GNSS measurements from smartphones and tablets became accessible. While the progress has been encouraging, a number of limiting factors must be overcome to support real-world applications. We invite contributions to discuss innovative ideas, algorithms and demonstrate testing results for precise positioning with smartphones. Topics of interest include but are not limited to the following:

- The analysis and modeling of smartphone GNSS observations
- Smartphone GNSS error estimation and mitigation
- Functional and stochastic models
- Smartphone positioning with precise point positioning (PPP), real-time kinematic (RTK), machine learning (ML), and other advanced techniques.
- Carrier-phase ambiguity resolution with smartphone GNSS observations
- The integrity monitoring of smartphone-based positioning
- Smartphone antenna analysis and calibration
- Smartphone GNSS and inertial sensor integration
- Location-based services with precision GNSS smartphones
- Applications of precision GNSS smartphones.

Guest Editors

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Deadline for manuscript submissions

closed (31 July 2023)



Sensors

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Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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