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Precise Positioning with Smartphones

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Deadline for manuscript
submissions:

closed (31 July 2023)

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.



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Special Issue



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Message from the Editor-in-Chief

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