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Cooperative Localization Performance for IoT WSNs

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Message from the Guest Editors

GNSSs have become extremely valuable positioning infrastructure for many applications worldwide, such as UAVs and autonomous driving. In open areas, high-precision positioning can be achieved using well-known technologies such as RTK and PPP. However, in urban environments, due to the severe multipath and blockage of satellite signals, accurate GNSS positioning is extremely difficult. Wireless sensor network technologies such as V2X, Wi-Fi, BLE network, 5G and UWB have attracted a great deal of attention because they can enhance the positioning performance. New methods for fusing these sensors are urgently needed to meet the accuracy, integrity and reliability requirements. This Special Issue aims to provide contributions on advancing accuracy and improving integrity using WSNs.

Potential topics include but are not limited to: Measures for accuracy, integrity and reliability improvement; Calibration and modelling of different positioning sensor errors; Algorithms for sensor fusion; Integrity monitoring of GNSSs and other augmentation systems; RAIM, SBAS and GBAS; PPP and RTK; Cooperative positioning; Smartphone positioning; GNSS multipath mitigation; High-precision positioning.

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Message from the Editor-in-Chief

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