



Innovative Solutions of GNSS Precise Point Positioning

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Message from the Guest Editors

Dear Colleagues,

Precise Point Positioning (PPP) based on Global Navigation Satellite Systems (GNSS) provides highly accurate positions, and its adoption is rapidly growing in several applications.

The trend of autonomous driving in transportation (automotive, UAVs, maritime, rail, and personal transportation) has increased the need for positioning with centimeter-level accuracy, which cannot be reached with standard GNSS solutions. The modernization of GNSS, the use of multiple constellations, and multiple frequencies reduced the time required by PPP techniques to converge to the desired accuracy level.

Research topics of interest include but are not limited to advanced PPP techniques, advanced integer ambiguity resolution, advanced receiver integrity monitoring algorithm, advanced fault detection, and exclusions, ranging error bounding and time correlation models, the integration of local sensors, the integration of signals from Low-Earth-Orbit (LEO) satellites, external services based on high-resolution maps, error model characterization, and the application of machine learning techniques.





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