



GNSS for Urban Transport Applications

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Message from the Guest Editors

Dear Colleagues,

GNSS solutions are now part of our everyday life. Most of the uses are linked to transport applications, and most often in urban areas, where availability and accuracy are degraded due to signal obstructions, multipath, and NLOS reception. Solutions are embedded in cars, autonomous vehicles or fleets of vehicles; drones; public transport systems; as well as smartphone-based solutions.

New and future uses of localization solutions will, however, require a high level of performance in terms of availability and accuracy but also integrity.

To reach high-level performances, new solutions have to be developed. They can rely on the potential of precise positioning, including RTK and PPP that has to be investigated. Special attention has to be paid to algorithms covering GNSS local effect detection, characterization, exclusion or mitigation techniques. Multisensor or hybrid solutions aim to compensate for the degradation of the GNSS. Among new algorithms, one can mention context detection approaches; multiagent collaboration; or uses of environment knowledge based on 3D models, map-matching, or other external sensors such as Camera or LiDAR.





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