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GNSS for Urban Transport Applications II

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Message from the Guest Editors

Dear Colleagues,

GNSS positioning and timing solutions are now part of our everyday life, with most of their uses linked to transport applications, particularly in urban areas where GNSS availability and accuracy tend to be degraded due to signal obstructions, multipath, NLOS (non-line-of-sight) signal reception and interferences. Solutions are embedded in cars, autonomous vehicles or fleets of vehicles, drones, public transport systems (buses and trams), as well as smartphone-based solutions.

However, future uses of GNSS localization solutions are predicted to require novel levels of performance in terms of accuracy, availability, robustness and integrity.

In order to reach novel performance levels in urban environments, innovative approaches and solutions still have to be investigated and developed. However, many challenges remain in regard to ensuring their robustness, assess their integrity and ensure availability with shorter convergence times. Special attention should also be paid to innovative algorithms covering GNSS local effect characterization, detection and exclusion or mitigation as the basis to increase trust in GNSS in challenging scenarios.

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Special Issue

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Message from the Editor-in-Chief

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