

## Special Issue

# All-Source Position and Navigation: An Alternative Solution for Resilient PNT

### Message from the Guest Editors

The question of how to assure reliable PNT from GNSS in environments where signal interception is challenging or impossible has attracted much attention in the research community. This Special Issue aims to provide a platform for researchers to publish innovative work on all-source navigation and assured PNT technology for various applications, i.e., in smartphones, ground vehicles, and UAVs. Potential topics include, but are not limited to, the following:

- Advanced technologies for MEMS IMU drift suppressing
- Advanced sensor technologies, i.e., new gyroscope, new accelerometer, new LiDAR
- Advanced method for multipath and NLOS signal classification, mitigation, or correction
- Cooperative navigation
- Environmental awareness-aided position and navigation with smartphone
- Integrity monitor and quality control and assessment
- LiDAR/visual SLAM
- New concepts or methods for sensors integration under GNSS-denied environments
- Opportunity signals processing for reliable position
- Resilient framework for multiple sensor integration
- Reliable PNT for UAVs, UGVs, and pedestrians in dense urban areas

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### Guest Editors

Dr. Yuwei Chen

Dr. Changhui Jiang

Dr. Qian Meng

Dr. Bing Xu

Dr. Shoubin Chen

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### Deadline for manuscript submissions

closed (20 November 2022)



## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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