



Advances in GNSS/INS Integrated Navigation and Precise Positioning

Guest Editor:

Dr. Heidar Malki

Department of Electrical and
Computer Engineering, University
of Houston, Houston, TX 77004,
USA

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Message from the Guest Editor

Dear Colleagues,

Advancements in integration techniques have paralleled technological progress, with loosely coupled and tightly coupled approaches emerging as standard methodologies. Loosely coupled integration involves blending the positional and velocity estimates from the GNSS receiver with the INS navigation solution. Conversely, in tightly coupled integration, GNSS raw measurements, including pseudorange and Doppler observables, undergo processing alongside INS measurements through a filtering mechanism. Moreover, the concept of ultra-tight integration has gained prominence, leveraging sophisticated baseband signal processing within GNSS receivers; this is exemplified by digital tracking loops.

This Special Issue of *Remote Sensing* seeks to compile cutting-edge research showcasing the utilization of INS/GNSS integration across emerging applications. We welcome submissions that not only explore novel applications but also elucidate recent advancements in integration methodologies. Authors are encouraged to contribute original research and review articles to enrich this discourse at the forefront of navigation technology.





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Message from the Editor-in-Chief

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Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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