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INS/GNSS Integrated Navigation Systems

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Deadline for manuscript submissions:

closed (31 December 2025)

Message from the Guest Editor

The advent of Integrated Navigation Systems, combining Inertial Navigation Systems (INS) with Global Navigation Satellite Systems (GNSS), marks a significant milestone in the evolution of navigation technology. This Special Issue of our journal delves into the synergistic integration of INS/GNSS and other sensors, aiming to highlight the latest advancements, methodologies, and applications in this domain. As these systems complement each other's strengths and mitigate their respective weaknesses, their integration paves the way for superior accuracy and robustness in navigation solutions.

In this Special Issue, we invite researchers to present their innovative work on system design, sensor fusion techniques, and performance analysis of INS/GNSS integrated systems. We are particularly interested in articles that explore the challenges of environmental factors on system performance, and the deployment of these systems in autonomous vehicles, aerospace, and mobile mapping. Through comprehensive research articles, reviews, and case studies, this Special Issue aims to provide a platform for disseminating cutting-edge research that pushes the boundaries of navigation technology.



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Special Issue



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Message from the Editor-in-Chief

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