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Inertial Sensors and Systems in 2020

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Deadline for manuscript submissions:
closed (31 October 2020)

Message from the Guest Editors

The traditional key elements in inertial and integrated systems for navigation, positioning, and surveying, as well as for vehicle guidance and control are gyroscopes and accelerometers, i.e., inertial sensors.

This Special Issue aims to highlight advances in the development, testing, and modeling of inertial sensors, i.e., on the component level, as well as of Inertial Navigation Systems (INS) and integrated systems based on gyroscopes and accelerometers. Topics include but are not limited to:

Basic Technologies for inertial sensors and systems:

- Accelerometers
- Gyroscopes
- Manufacturing
- Advanced sensor characterization and error modeling techniques
- Online and offline calibration
- Inertial and integrated navigation system design
- Sensors and technologies for aiding inertial systems

Applications:

- Air, space, sea, and land vehicles
- Surveying
- Biomechanics in pedestrian navigation, sports, and medicine
- Structural health monitoring
- New and unconventional utilization of inertial sensors

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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