

Special Issue

Advances in Inertial Sensors

Message from the Guest Editors

Thanks to the rapid progresses in micro electro-mechanical systems (MEMS), millimeter-sized devices can be produced, providing accurate and reliable measurements, and can be used for monitoring heart motion or bladder movements, heart rate, breathing, pathological tremors, or in general to assess physical activity. This Special Issue is focused on innovative applications of wearable sensors, digital health, and data analytics to any field of medicine, rehabilitation, sports. Prospective authors are invited to submit original contributions, review, or survey papers for publication in this Special Issue. Topics of interest are not limited to the following:

- Inertial measurement unit in musculoskeletal disorders;
- Inertial measurement unit in neurological disorders;
- Inertial sensors in gait analysis and localization;
- Inertial sensors and sport;
- Signal processing techniques and Hardware implementation for inertial sensors;
- Estimation of real parameters and Data fusion by inertial sensors;
- Continuous monitoring and anomaly detection with inertial sensors;
- Low-power wearable systems based on inertial sensors;
- Inertial sensors in the IoT framework.

Guest Editors

Prof. Dr. Cosimo Costantino

Dr. Valentina Bianchi

Prof. Dr. Giulio Colavolpe

Deadline for manuscript submissions

closed (31 July 2021)



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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.

Editor-in-Chief

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