sensors

an Open Access Journal by MDPI

IMPACT FACTOR 3.4

Indexed in: PubMed

CITESCORE 7.3

Rotation Rate Sensors and Their Applications

Guest Editors:

Prof.Dr. Zbigniew Zembaty

Dr. Felix Bernauer

Prof.Dr. Heiner Igel

Prof. Dr. Ulrich Schreiber

Deadline for manuscript submissions:
closed (19 April 2021)

Message from the Guest Editors

Rotation rate sensors are finding more and more applications in science and engineering, most prominently by serving for the control of vehicle or airplane motion. Functions in consumer electronics, such as smartphones and smartwatches are controlled with respect to their tilt. In modern seismology, the measurement of rotations about the vertical and horizontal axes is combined with classic displacement records, which has demonstrated many powerful applications. Even a small rocking motion of the foundations of tall buildings translates into substantial tip displacements. Furthermore, we are now in the position to obtain torsional motion from tall structures reliably. All these applications require various types of rotation rate sensors. From small MEMS gyros, over fiber-optic gyros and electrochemical devices to high resolution, large ring lasers. This Special Issue will collect papers on (inertial) rotation rate sensors and their applications, with particular attention paid to the novel areas of application in modern geophysics, civil and seismic engineering, as well as mechanical engineering and modern geodesy, including structural health monitoring.

sensors

IMPACT FACTOR 3.4 | Indexed in: PubMed | CITESCORE 7.3

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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.

Author Benefits

Open Access : free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.
Journal Rank: JCR - Q2 (Chemistry, Analytical) / CiteScore - Q1 (Instrumentation)

Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
𝕏@Sensors_MDPI