Special Issue

Resonance Sensors: Technology, Measurements and Applications across the Frequency Operating Range

Message from the Guest Editors

The resonance-based transduction mechanism is extensively exploited for numerous applications, among which the development of sensors is of great interest. The resulting devices are capable of sensing a broad range of the electromagnetic spectrum, ranging from low frequencies to terahertz, through the use of advanced technologies, which span from quartz crystal microbalances to microwave resonators and from microelectromechanical systems to fiber Bragg gratings. The aim of this Special Issue is to publish high-quality research papers, as well as review articles, on the latest advances on all aspects related to resonance-based sensors, including the design, fabrication, characterization, and modelling of resonant sensors and their various applications (e.g., remote sensing and structural monitoring, agriculture and environmental monitoring, healthcare and medical applications, and industrial and automotive applications). We look forward to your participation in this Special Issue.

Guest Editors

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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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