

Special Issue

Advances in Quantitative Ultrasonic Sensing and Imaging

Message from the Guest Editors

Accurate and efficient techniques are required to characterize complex flaws (such as cracks, corrosion, impact damage) in advanced materials and structures (pipes, composites, additively manufactured materials) using bulk and guided waves. This Special Issue focuses on computational and experimental approaches for the acquisition of two-dimensional and three-dimensional images. It comprises topics such as the development of accurate and efficient sensor and array measurement systems, data processing algorithms and computational methods for ultrasonic imaging, analytical and numerical forward and inverse modeling techniques, and innovative aspects of ultrasound sensing and imaging.

Keywords

- ultrasonic imaging
- ultrasound tomography
- array
- forward modeling
- inverse problems
- defect sizing

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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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