Special Issue

Nondestructive Sensing and Imaging in Ultrasound

Message from the Guest Editors

Nondestructive evaluation by ultrasound is a transversal line that is present in a wide range of industrial sectors, from automobilist and aeronautic to medical, transport, and civil infrastructure, among others. Ultrasonic imaging is used extensively to establish the properties and quality of materials and infrastructures. The development of new methodologies, sensors, and instrumentation in NDE has to follow the trends in the informatization, digitization, and networking of industrial production. The development of nondestructive sensors is a transversal line with multiple applications in different thematic areas. New production techniques, for example, 3D printing, will allow efficient and timely production of low numbers of unique parts customized for the needs of NDE. This Special Issue aims to highlight advances in nondestructive sensing and imaging in ultrasound in different thematic areas that allow sharing a multidisciplinary vision of this topic.

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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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