

Special Issue

Applications of Acoustic and Ultrasonic Waves for Non-Destructive Testing and Structural Health Monitoring

Message from the Guest Editors

This Special Issue is open to all applications of active (ultrasound) or passive (acoustic emission) elastic waves to any engineering or biomedical material including but not limited to composites, concrete, masonry, ceramics, 3D printed materials, cultural heritage items, and biological tissues. We encourage submissions of original research and review papers. Potential topics include but are not limited to: Detection, identification, and localization of damage; Characterization of anisotropic media; Applications of ultrasound and acoustic emission in aeronautics; Applications of acousto-ultrasonics; Combination of elastic waves with other techniques, i.e., data fusion; Application of surface waves at various wavelengths; Guided waves; Wireless transmission technology; Non-contact ultrasonics (laser, air-coupled ultrasound); Prediction of remaining life based on acoustic emission behavior; Industrial applications; Modelling/simulations; Signal processing; Ultrasonic phased arrays or TFM.

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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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