Special Issue

Advances in Ultrasonic Guided Wave Sensor Technologies for Structural Health Monitoring

Message from the Guest Editors

Ultrasonic Guided Wave (UGW) testing has gained greater attention from the industry for its inherent capability of long-range inspection. This technology is widely used as a screening tool in many industries, e.g., oil and gas, renewable energy, naval, construction, and aerospace. Recent attempts have been made to improve the resolution and sensitivity of UGW sensors for quantitative measurements of structural health and also to inspect complex structures, e.g., glass laminate aluminium reinforced epoxy, and carbon fiber reinforced polymer.

This Special Issue is aimed to the submission of both review and original research articles related to the advancement of UGW sensor development, signal processing, and applications of UGW for structural assessment. Topics include but are not limited to the following:

- Non-destructive testing and material characterisation
- The inspection of complex material and structures using UGW
- Flexible sensor development
- UGW imaging and visualisation
- Industrial applications
- The remote monitoring of structural health

Guest Editors

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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.

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