



Advances in Ultrasonic Guided Wave Sensor Technologies for Structural Health Monitoring

Guest Editors:

Prof. Dr. Tat-Hean Gan

Brunel Innovation Centre, Brunel
University London, Uxbridge, UK

Dr. Shehan Lowe

Nuclear Advanced Manufacturing
Research Centre (Nuclear AMRC),
S60 5WG Rotherham, UK

**Prof. Dr. Wamadeva
Balachandran**

Centre for Electronic Systems
Research, Electronic and
Computer Engineering, CEDPS,
Brunel University London,
Kingston Lane, Uxbridge UB8
3PH, UK

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Message from the Guest Editors

Dear Colleagues,

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

Prof. Dr. Tat-Hean Gan

Dr. Shehan Lowe

Prof. Dr. Wamadeva Balachandran



sensors



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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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Sensors Editorial Office
MDPI, Grosspeteranlage 5
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