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Ultrasonic Modelling for Non-destructive Testing

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Deadline for manuscript submissions:
closed (30 September 2022)

Message from the Guest Editor

The current Special Issue aims to explore advances in ultrasonic modeling methods for understanding or predicting NDT inspections. I invite you to submit novel achievements in the understanding and modeling of ultrasonic waves for NDT applications and welcome high-quality research and review papers on theoretical, practical, and validation aspects.

Keywords

- Ultrasonic wave modeling
- Non-destructive Testing/Evaluation (NDT/NDE)
- Material properties
- Structural Health Monitoring (SHM)
- Ultrasonic imaging and inversion
- Ultrasonic characterization
- Non-linear acoustics
- Acoustic Emission (AE)
- Signal and noise analysis
- Wave propagation and scattering
- Semi-analytical, numerical, and hybrid models and benchmarking
- Artificial intelligence
- Medical applications

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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