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Ultrasonic Modelling for Non-destructive Testing

Guest Editor:

Prof. Dr. Michel Darmon

Laboratory of Research on Software-Intensive Technologies (LIST), Atomic Energy and Alternative Energies Commission (CEA), Paris-Saclay University, F-91120 Palaiseau, France

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 highquality 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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Editor-in-Chief

Message from the Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy 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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Applied Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/applsci applsci@mdpi.com X@Applsci