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Numerical Simulation and Experimental Studies of Wave Phenomena in Composite Materials

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Deadline for manuscript submissions:
closed (20 January 2022)

Message from the Guest Editors

As a prime step in understanding and analysis of complex wave phenomena in smart composite materials, efficient and accurate mathematical models and numerical simulation tools are required which are suitable for fast parametric studies at the development stage or for the implementation in real electromechanical devices and systems. In particular, they should take into account peculiarities of material microstructures, coupled mechanical and electrical fields, complex shapes of sensors and transducers, as well as wave scattering by localized or distributed inhomogeneities. Such simulation problems are often very complex and cannot be treated efficiently with simple analytical or conventional numerical tools, inspiring, therefore, the development of advanced computational methods for 3D wave dynamic problems.

It is our pleasure to invite you to submit a manuscript for this Special Issue related to experimental and numerical studies of wave phenomena in composite materials. Full papers, short communications, and reviews are all welcome.

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Message from the Editor-in-Chief

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