

Special Issue

New Trends in Experimental and Numerical Vibroacoustic Techniques—Physics Guided and Data Guided Approaches

Message from the Guest Editors

This Special Issue focuses on the scientific progress related to vibration, shock, and noise in materials, structures, and systems, as well as dynamic coupling in vibro-acoustics, biomechanics, and multiphysics. It covers new theoretical, numerical, and experimental developments. It addresses several research themes, including damping prediction, nonlinear dynamic behavior, vibrations of intelligent structures and architectural materials, vibration and acoustic metrology, signal processing for mechanics, and medium- and high-frequency applications, while considering uncertainties, experimental methods, industrial applications, and machine learning applied to dynamic systems. It will welcome all advances in the transport, sports, biomedical, energy, and civil engineering sectors. This Special Issue also aims to encourage scientific publications on advanced methods for analyzing data and modeling the dynamics of materials and structures. Interest in all types of data, but more particularly in data for which recent advances have been made in the field of Artificial Intelligence.

Guest Editors

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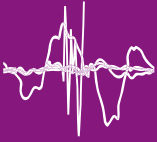


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