

Special Issue

Advanced Vibro-Acoustic Technology: Intelligent Algorithms, Smart Materials and Dynamics, 2nd Edition

Message from the Guest Editors

Vibration and acoustics are everywhere in the environment, e.g., ocean waves, flutter, pipeline vibration, wind-induced vibration, jet noise, and underwater noise. New advanced technologies, including intelligent algorithms, smart materials, and advanced analysis methods, can produce revolutionary progress in vibro-acoustics control and utilization. Thus, this Special Issue aims to collect the latest research advances in vibro-acoustics control and utilization using intelligent algorithms, smart materials, and advanced analysis methods. This Special Issue is focused on, but not limited to, the following themes:

- Innovative intelligent algorithms for vibration/acoustics-based energy harvesting, control, target tracking, and diagnosis;
- Analyses of vibration/acoustics energy harvesting and control using functional and smart materials;
- Fluid–solid interaction, flow-induced noise in energy harvesting or control using intelligent algorithms, new smart materials, and dynamic mechanisms;
- Innovative vibration/acoustics control algorithms such as machine-learning-based methods;
- Advanced vibration/acoustics energy harvesting or control in aerospace, marine, civil engineering, etc.

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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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