

Special Issue

Noise and Vibration Control in Mechanical Systems

Message from the Guest Editor

Modern technological systems have evolved to allow high-speed, heavy-load, lightweight, flexible, and extreme-condition operation. However, the associated vibration and noise issues have significantly restricted the system performance. This Special Issue will incorporate both active control and passive control, together with their metamaterial implementation, to address noise and vibration issues in mechanical systems. The gap between the three fields will be bridged, providing a unified supplement to the existing literature. Thus, the scope will include:

- New theories and methods for addressing noise and vibration problems in mechanical systems, including active, passive, and semi-active approaches;
- Integration with smart materials and structures to solve noise and vibration problems in industrial systems and/or for novel applications;
- Implementation-associated devices such as new sensing and instrumentation equipment, including new noise and vibration sensors, actuators, field measurement devices, etc.;
- Establishment of sound/noise testing laboratory or development of cutting-edge technologies for new applications.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

Editor-in-Chief

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).