Special Issue

Vibration Isolation and Control in Mechanical Systems

Message from the Guest Editors

Vibration is a phenomenon inherently present in virtually all mechanical systems, from small-scale devices to large industrial machines, and it plays a crucial role in both performance and safety. Vibrations must be isolated or suppressed in precision applications, such as semiconductor manufacturing, medical equipment, and advanced optics. On the other hand, vibrations can also be harnessed for beneficial purposes, including vibration-assisted manufacturing and vibration-based energy harvesting. To better manipulate and master vibrations, theoretical insights, innovative technologies, and practical implementations are essential. This Special Issue aims to compile cutting-edge research that explores theoretical developments, integrates state-of-the-art techniques, and implements practical solutions for vibration isolation and control. We welcome original research articles, review papers, and case studies, with particular encouragement for contributions involving real-world experiments.

Guest Editors

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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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