Special Issue

Low-Frequency Vibration Control with Advanced Technologies

Message from the Guest Editors

Low-frequency vibrations, generally with large amplitude, contribute to problems in many fields, such as vehicles, marine crafts, and buildings. For example, in the system involving human operators or passengers, low-frequency vibration is one of the leading causes of discomfort, motion sickness, and musculoskeletal disorders. At the same time, large-amplitude low-frequency vibration threatens system safety significantly by inducing irreversible structural damages. As a result, many advanced technologies have emerged in this field, and some have been applied in practice, such as semi-active absorbers and isolators in vehicles and buildings. Therefore, this Special Issue aims to bring together papers that describe recent advances in low-frequency vibration control with passive, active, semi-active, or hybrid ways. It is particularly encouraged that papers propose new concepts, investigate multiple DOFs' vibration control by considering coupling dynamics, and study nonlinear technologies.

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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.

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