Special Issue

Noise and Vibration Control in Dynamic Systems

Message from the Guest Editors

Noise and vibration are common problems in dynamic systems. The control strategy of noise and vibration varies by application, regulation and feasibility, and has been a prevalent topic for researchers and engineers. Vibration can be harmful to mechanical structures, reducing their efficiency and fatigue life, and degrading their safety and reliability. Vibration-induced noise can cause discomfort and annoyance, and decrease the perceived value of products. Therefore, it is necessary to develop new methods and techniques to control the noise and vibration through simulation modeling and testing analysis. This Special Issue aims to present recent advances and technologies in the field of vibration and noise control in dynamic systems, including machine tools, robots, rotary machines, wind turbines, HVAC systems, vehicles and aircrafts. Potential topics include but are not limited to:

- Active vibration/noise control;
- Aerodynamic noise and aircraft interior noise;
- Dynamic analysis and vibration control of mechanical structures;
- Shock absorber and vibration isolation;
- Sound absorbing materials and structures;
- Vehicle NVH (noise, vibration and harshness)

Guest Editors

Dr. Yawen Wang

Prof. Dr. Zaigang Chen

Dr. Fei Wu

Dr. Dong Guo

Deadline for manuscript submissions

closed (30 April 2023)

Machines

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.7

mdpi.com/si/124364

Machines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
machines@mdpi.com

mdpi.com/journal/machines

Machines

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.7

mdpi.com/journal/machines

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

Prof. Dr. Antonio J. Marques Cardoso
CISE - Electromechatronic Systems Research Centre, University of Beira Interior, Calçada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q1 (Control and Optimization)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.9 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).