

Special Issue

New Journeys in Vehicle System Dynamics and Control

Message from the Guest Editors

As vehicles become increasingly electrified and intelligent, the dynamics and control of vehicle systems are encountering new challenges. Concurrently, the nonlinear dynamic behavior of complex systems remains at the forefront of current research. It is essential to explore and highlight the latest advancements in this field. The innovations and revolutionary possibilities merit publication and should be shared among colleagues. This Special Issue will provide a comprehensive platform for presenting novel research, case studies, and the latest technological advancements that address the challenges of vehicle dynamics and control in the science world. These include the following: automotives, railway vehicles, motorcycles, vertical takeoff and landing (VTOL), and special vehicles. The focus will encompass both theoretical studies and practical applications of these concepts. The potential subtopics of this Special Issue include but are not limited to:

- grounded vehicle
- railway vehicle
- VTOL
- dynamic analysis
- vibration control
- stability and control
- active or semi-active control
- energy harvesting
- acoustics and vibration
- nonlinear vibrations

Guest Editors

Dr. Changning Liu

Dr. Yi Yang

Dr. Lai Wei

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

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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

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

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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).