

Special Issue

Advances in Mechanical Systems Dynamics

Message from the Guest Editors

Nowadays, mechanical systems are increasingly integrated with electronic, electrical, and fluidic systems. This trend is present not only in the industrial environment, but also in other environments like automotive technology, rehabilitation and bio-engineering, smart materials and domotics. This Special Issue aims at disseminating the latest research achievements, findings, and ideas in mechanical systems dynamics, with particular emphasis on applications that are strongly integrated with other systems and require a multi-physical approach. Papers are welcome on topics that are related to the theory, practice, and applications of mechanical systems dynamics, including but not limited to the following:

- The identification and dynamics of multi-body systems;
- The dynamics of automatic machinery;
- Dynamics stability and control of vehicles;
- The dynamics of connected and autonomous vehicles;
- The dynamics and control of robots;
- Innovative robots;
- Medical robotics (surgery, rehabilitation);
- The dynamics of multi-physics systems for energy harvesting.

Keywords: dynamics, multi-physics systems, vehicle dynamics, robot, multi-body

Guest Editors

Prof. Dr. Alberto Doria

Prof. Dr. Giovanni Boschetti

Prof. Dr. Matteo Massaro

Deadline for manuscript submissions

closed (30 October 2019)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/24781

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

[mdpi.com/journal/
appls](https://mdpi.com/journal/appls)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)