



Advances in Multi-Physical Systems Dynamics

Guest Editors:

Prof. Dr. Alberto Doria

Department of Industrial
Engineering, University of
Padova, 35131 Padova, Italy

Dr. Silvio Cocuzza

Department of Industrial
Engineering, University of
Padova, 35131 Padova, Italy

Dr. Ilaria Palomba

Department of Industrial
Engineering, University of
Padova, 35131 Padova, Italy

Message from the Guest Editors

Currently, we are experiencing the Fourth Industrial Revolution, and in industrial plants mechanical systems are becoming multi-physical systems due to the strong integration with electrical, fluidic, and electronic devices and sensors. Outside industrial plants, the needs for widening the operativity of existing machines and vehicles in new environments, as well as the development of new technologies, have fostered the development of multi-physical devices.

Papers are welcome on topics that are related to the theory, practice, and applications of multi-physical system dynamics. Suitable topics include, but are not limited to, the following:

- Multi-physical systems for energy harvesting;
- Multi-physical systems for robotics and automation;
- Multi-physical walking and amphibious machines;
- Aerial, space, and underwater robotics;
- Bio-inspired machines;
- Multi-physical biomedical equipment.

Deadline for manuscript
submissions:

closed (20 December 2021)





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/Applsci)