Special Issue

State-of-the-Art in Computational Analysis of Machines, Mechanisms, Structures and Materials

Message from the Guest Editors

This Special Issue deals with the state-of-the-art innovations in the contemporary computational analysis of machines, mechanisms, structures, and materials. The objective of this Special Issue is to represent the latest research using computational technologies to improve the traditional engineering approach to the analysis of complex mechanical systems, the optimization of material properties, and the analysis of structures under load. The hope that you will find the overview of these activities gathered in this Special Issue useful for the advancement of engineering science. **Topics of interest include, but are not limited to, the following:**

- Structural Analysis and Optimization;
- Design and Analysis of Smart Structures;
- Design of Advanced and/or Additively Manufactured Materials;
- Optimization of Machines and Mechanisms for Sustainable Development;
- Advanced Mechanical and Fluid Power Transmissions;
- Applied Numerical Optimization and Analysis;
- Engineering Applications of AI- and OR-based Modeling and Analysis.

Guest Editors

Dr. Kristina Marković

Dr. Zeljko Vrcan

Dr. Sanjin Troha

Dr. Dragan Zoran Marinkovic

Deadline for manuscript submissions

30 December 2025

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/220881

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

mdpi.com/journal/applsci

MDPI

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

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)