



New Trends in Mechanics and Structural Analysis

Guest Editors:

**Prof. Dr. Elza Maria Morais
Fonseca**

Department of Mechanical
Engineering, Polytechnic
Institute of Porto, ISEP-IPP,
Porto, Portugal

**Prof. Dr. Hernâni Miguel Reis
Lopes**

Department of Mechanical
Engineering, Polytechnic of
Porto, Porto, Portugal

Deadline for manuscript
submissions:

closed (20 May 2023)

Message from the Guest Editors

Dear Colleagues,

Mechanics and structural analysis is a field dedicated to the study of deformations, stresses, vibrations, and thermal and material properties in general. Mechanics and structural analysis is a very active research field, due to the search for challengers and innovative solutions. The study of the structural behavior and the characterization of new materials applied in different engineering fields and solutions bring to this field as always new and future tendencies.

The spectrum of the contributions to this Special Issue will provide an exceptional understanding and a complete basis for future research in the field of mechanics and structural analysis. It is intended that this Special Issue will contain contributions conducted in experimental, theoretical, or computational approaches and their interactions. Original articles in the following topics are welcome for submission. Potential topics include, but are not limited to:

Structural analysis;

Thermal analysis;

Structural vibration;

Finite element modelling





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

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)