Special Issue

Multibody Systems with Flexible Elements, 2nd Edition

Message from the Guest Editors

Multibody systems with flexible elements represent mechanical systems made by many elastic (and rigid) bodies interconnected meeting a functional, technical or biological assembly. The displacements of each or some of the elements of the system are generally large and cannot be neglected in mechanical modeling. The systematic treatment of the dynamic behavior of interconnected bodies has led to an important number of formalisms for multibody systems within mechanics. At present, this formalism is used in large engineering fields, especially in robotics and vehicle dynamics. The formalism of multicorp systems offers a means of algorithmic analysis, assisted by the computer, and a means of simulating and optimizing an arbitrary movement of a possible high number of elastic bodies in the connection... You may read more details here: https://www.mdpi.com/journal/symmetry/special_issues/7O98637688

Guest Editors

Prof. Dr. Sorin Vlase

Prof. Dr. Marin Marin

Prof. Dr. Maria Luminița Scutaru

Deadline for manuscript submissions

15 January 2026

About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

Prof. Dr. Sergei Odintsov
1. ICREA, 08010 Barcelona, Spain
2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

Author Benefits

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

High Visibility:
indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:
JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1 (General Mathematics)