

Special Issue

Mathematical Modeling and Simulation in Mechanics and Dynamic Systems, 3rd Edition

Message from the Guest Editors

Although it is considered that it is difficult to make further contributions in the field of mechanics, the spectacular evolution of technology and numerical calculation techniques have led to a reconsideration of these opinions and the development of increasingly sophisticated models that can predict, as accurately as possible, the phenomena that take place in dynamic systems. Therefore, researchers are studying mechanical systems with complicated behavior, observed in experiments and in computer models. The key requirement is that the system involves a nonlinearity. The impetus in mechanics and dynamical systems has come from many sources: computer simulation, experimental science, mathematics, and modeling. There are a wide range of influences. Computer experiments change the way in which we analyze these systems. Topics of interest include, but are not limited to:

- modeling mechanical systems
- new methods in dynamic systems
- behavior simulation of mechanical systems
- nonlinear systems
- multibody systems with elastic elements
- multiple degrees of freedom
- mechanical systems
- experimental modal analysis
- mechanics of materials

Guest Editors

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Deadline for manuscript submissions

closed (1 January 2026)



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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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