

Special Issue

Nonlinear Dynamics: Experiment and Numerical Simulation

Message from the Guest Editor

We are delighted to announce this Special Issue dedicated to experimental and numerical investigations of nonlinear dynamical systems. While we particularly encourage submissions focusing on crank-arm-driven mechanisms, we also welcome contributions across all areas of nonlinear dynamics. This Special Issue aims to showcase research that bridges theoretical modeling, computational simulations, and experimental validations. Topics of interest include, but are not limited to, the following:

- Experimental and numerical studies of joint clearances, impact dynamics, and bifurcations;
- Nonlinear vibrations, stability, control, and chaos in mechanical systems;
- Novel experimental setups and sensor-based measurements for dynamic systems;
- Hybrid modeling approaches combining data-driven and physics-based methods;
- All other aspects of nonlinear dynamical systems and their applications.

We believe your research will greatly enrich this Special Issue and we look forward to your valuable contributions.

Guest Editor

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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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