

## Special Issue

# Nonlinear Vibration of Mechanical Systems

### Message from the Guest Editors

We are delighted to invite you to contribute to a Special Issue entitled "Nonlinear Vibration of Mechanical Systems" in *Vibration*. Research on the modelling of mechanical systems has been crucial in various engineering fields. Despite extensive studies in this area, emerging applications and new materials present new challenges. This Special Issue aims to unite cutting-edge research and innovative perspectives on the complex dynamics and behaviours exhibited by mechanical systems under nonlinear vibrations. These systems often showcase intricate and nonlinear dynamics, leading to a rich spectrum of vibrational phenomena. The Special Issue covers a wide range of topics, including, but not limited to, nonlinear modal interactions, chaos and bifurcation in mechanical systems, the nonlinear dynamics of coupled structures, nonlinearities in control systems, experimental investigations of nonlinear vibrations, and the application of nonlinear dynamics in engineering design.

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### Guest Editors

Prof. Dr. Francesco Pellicano

Prof. Dr. Yuri Mikhlin

Prof. Dr. Konstantin V. Avramov

Dr. Antonio Zippo

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### Deadline for manuscript submissions

closed (15 November 2025)



## Vibration

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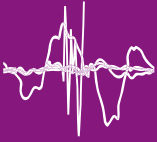


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## About the Journal

### Message from the Editor-in-Chief

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#### Editor-in-Chief

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