

Special Issue

Vibration Damping, 2nd Edition: Response Mitigation of Structural and Rotating Systems—Smart, Nonlinear and Hybrid Solutions

Message from the Guest Editors

Vibration damping remains critical for safety, reliability, control and performance in both engineering structures and rotating machinery operating under demanding conditions. Recent advances in dissipation mechanisms, smart materials and electromechanical coupling, nonlinear energy transfer, and engineered/periodic structures enable new solutions that combine damping performance, robustness and multifunctionality. Submissions are especially encouraged within the following two application pillars, supported by a set of cross-cutting methods and technologies.

Pillar 1 – Structural and Civil Vibration Mitigation

Pillar 2 – Rotating Machinery Damping and Industrial Rotordynamics

Cross-cutting Methods and Technologies (supporting both pillars)

Both fundamental and application-oriented papers are welcome, provided they demonstrate clear relevance to vibration damping and include sound modelling/identification and/or experimental validation.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Editor-in-Chief

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.8 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the second half of 2025).

