

Special Issue

Modeling and Control in Vibrational and Structural Dynamics

Message from the Guest Editor

This Special Issue aims to examine the new developments in modeling and control in structural dynamics and various solution methods for special vibrational structures. Papers of theoretical and experimental nature are welcome. Acoustic and vibrational properties are commonly inherent in numerous physical and engineering systems, which have been studied by various researchers. It includes papers on dynamic modeling and vibration of structural elements. Adaptive computational methods, linear/nonlinear dynamic behaviors of smart structures/materials, dynamic stability of discrete and continuous systems, application of numerical techniques in studying linear/nonlinear dynamics of beams, arches, cables, plates, and shells; dynamic systems involving clearances, impacts, and friction; dynamics of micro-scale systems; linear/nonlinear behaviors of soil-structure, structural-acoustic, and fluid-structural interactions, stability and bifurcation analysis of piecewise systems and structures, dynamic response of hysteretic systems; vibration absorbers; rotor dynamics of systems; applications of smart sensors and actuators; multi-objective optimization.

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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