# **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**

Dr. Yiu Yin Raymond Lee

Department of Architecture and Civil Engineering, City University of Hong Kong, Tat Chee Avenue, Kowloon 852, Hong Kong

### Deadline for manuscript submissions

31 July 2026



## **Mathematics**

an Open Access Journal by MDPI

Impact Factor 2.2 CiteScore 4.6



mdpi.com/si/229124

Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

mdpi.com/journal/mathematics





# **Mathematics**

an Open Access Journal by MDPI

Impact Factor 2.2 CiteScore 4.6



## **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.

### Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

### **Author Benefits**

## **High Visibility:**

indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

### Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

