

# Special Issue

## Applied Mathematics to Mechanisms and Machines, 3rd Edition

### Message from the Guest Editors

In mechanism and machine science, theoretical and computational analysis lead to problems, which can be solved using mathematical modelling and processing. The different strategies for approaching problems in mechanical engineering, or related areas, include the use of integral and differential equations; interpolation; polynomial computation; least squares and regularization; vector algebra; matrix equations; control theory; synthesis process; discrete and continuous transforms; image and signal processing; and Galerkin, finite element, finite difference, and finite volume methods. This Special Issue compiles articles exploring the different mathematical processes used to solve mechanisms and machines problems. Special attention is paid to the analysis and synthesis of mechanisms and machines; linear and nonlinear mechanical systems; transportation engineering (cars, trains, ships, etc.); vibration data analysis and machine learning; and kinematics, dynamics, and control in biomechanics, mechatronics, and micromachines.

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### Guest Editors

Dr. Higinio Rubio Alonso

Prof. Dr. Domenico Guida

Dr. Alejandro Bustos Caballero

Prof. Dr. Enrique Soriano-Heras

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### Deadline for manuscript submissions

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## Mathematics

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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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### Editor-in-Chief

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