

# Special Issue

## Applied Mathematical Methods in Mechanical Engineering

### Message from the Guest Editors

The importance of modelling and simulations in mechanical engineering cannot be understated. Mathematical models and the corresponding simulations can be used to predict outcomes, develop an understanding of complex systems, conduct parametrical experiments quickly, and cost-effectively understand the implications of design decisions. Mathematical approaches can also be used for inverse problems that seek to find answers to the opposite question: if we want a particular behavior, how can we produce it? The purpose of this Special Issue is to gather a collection of articles reflecting the latest developments in the application of mathematical methods to problems in mechanical engineering.

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 May 2020)



## 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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).