

Special Issue

Optimization and Simulation in Mechanical Engineering and Computer Aided Design

Message from the Guest Editors

The development of science and new technologies bring challenges in designing mechanical systems; due to the growing importance of the Industry 4.0 paradigm, the creation of fast responsive models as well as the search for new optimization and simulation methods are currently a mandatory phase in the modeling and simulation of physical systems. The aim of this Special Issue is to provide an opportunity for international researchers to share and review recent advances in optimization and simulation in mechanical engineering and Computer Aided Design fields. The proposed topics present many challenges and have a strong support in engineering, mathematics, computer science. This Special Issue focuses on recent theoretical and computational studies for running industrial projects.

Guest Editors

Dr. Ionuț Gabriel Ghionea

Dr. Cristian Ioan Tarbă

Dr. Saša Ćuković

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

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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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

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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).