

Special Issue

Mathematical Methods for Control Systems and Signal Processing with Applications

Message from the Guest Editors

Mathematical methods are crucial in analyzing and managing complex systems, driving advancements in control systems, and signal processing. The application of these methods spans critical areas such as control systems, the modeling of physical systems, failure detection, pattern recognition, and smart infrastructure. With the rise of artificial intelligence (AI), the Internet of Things (IoT), and autonomous systems, the demand for innovative and efficient algorithms continues to grow, making this an exciting and rapidly evolving area of research. Sensorless failure detection in electric motors, ball bearings, gearboxes, power transformers, and electrical grids are some of the applications in which mathematical methods play an essential role. This Special Issue welcomes contributions that advance the application of mathematical methods in system formulation, analysis, and implementation across diverse scientific and engineering fields.

Guest Editors

Prof. Dr. Luis Morales-Velazquez

Engineering Faculty, Universidad Autónoma de Querétaro, San Juan del Río 76807, Mexico

Prof. Dr. Arturo Y. Jaen-Cuellar

Engineering Faculty, Universidad Autónoma de Querétaro, San Juan del Río 76807, Mexico

Deadline for manuscript submissions

closed (30 September 2025)



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/226752

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

[mdpi.com/journal/
mathematics](https://mdpi.com/journal/mathematics)





Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



[mdpi.com/journal/
mathematics](https://mdpi.com/journal/mathematics)



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 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).