



## Mathematical Analysis of Robotics and Mechanisms

Guest Editors:

**Prof. Dr. Bogdan Mocan**

**Dr. Sergiu Dan Stan**

**Prof. Dr. Milos Manic**

**Dr. Milos Simonovic**

Deadline for manuscript  
submissions:

**closed (15 October 2025)**

### Message from the Guest Editors

Dear Colleagues,

Robotics are utilised in a variety of sectors so that people can concentrate on the most important and useful jobs. Industrial and manufacturing enterprises, warehousing and logistics firms, healthcare providers, and retail, banking, and hospitality businesses are utilising robots to achieve improved business outcomes.

This Special Issue will feature a collection of papers reflecting the most recent advancements in mathematical methods for solving problems and optimisation of classical and modern robot structures, including walking robots, robotic manipulators, robotic exoskeletons, haptic robots, parallel robots, and any other old and new mechanisms with all feasible tasks, for all their potential challenges and applications. Topics of interest for this Special Issue are not limited to those highlighted above.

Both theoretical and experimental studies are welcome, as well as comprehensive reviews and survey articles.





an Open Access Journal by MDPI

## Editor-in-Chief

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

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

**Journal Rank:** JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

## Contact Us

---

*Mathematics* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/mathematics](http://mdpi.com/journal/mathematics)  
[mathematics@mdpi.com](mailto:mathematics@mdpi.com)  
[X@MathematicsMDPI](https://twitter.com/MathematicsMDPI)