



## Mechatronics System Design in Medical Engineering

Guest Editors:

**Dr. Florin Popișter**

**Dr. Sergiu Dan Stan**

**Dr. Nikola Vitković**

**Dr. Milan Banić**

Deadline for manuscript  
submissions:

**closed (30 April 2025)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue focuses on mechatronics systems design, which combines knowledge from electronics, control, materials, manufacturing, and modeling to simulate and implement novel products and devices within the medical engineering domain.

Topics of interest for this Special Issue include, but are not limited to:

- Mechatronics systems control;
- Programming in control and mechatronics;
- Image processing applied in mechatronics and medical engineering;
- Artificial intelligence applied in mechatronics and medical engineering;
- Modeling and simulation of products in medical engineering;
- Prototyping and deployment;
- CAD/CAM and FEA;
- Additive manufacturing;
- Optimal design of mechatronic systems;
- Redundant parallel robots;
- Reverse engineering in medical applications;
- Modern trends in parallel robots for medical applications;
- Internet of Things in medical engineering;
- Biomaterials used in medical engineering;
- Composite materials for medical structures;
- Monitoring sport and physical activity—  
measurement and evaluation.





*applied* Guest Editors

Dr. Sergiu Dan Stan  
Dr. Nikola Vitković  
Dr. Milan Banić



an Open Access  
Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo**  
Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## 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), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](#)