

Special Issue

Robotics, IoT and AI Technologies in Bioengineering, 2nd Edition

Message from the Guest Editors

Bioengineering is a discipline that blends many aspects of traditional engineering fields with healthcare issues. The main objective is the creation of digital tools, devices, and software platforms, as well as the implementation of advanced tools, from IoT, artificial intelligence, and robotics to Cloud computing, smart wearables with the ultimate aim of improving the quality and duration of life for patients. From an application point of view, for example, artificial intelligence has proven to be efficient in many ways in the medical field, from the improvement of image-based diagnostics, analysis of biological signals, recognition of human activities through accelerometric signals...Robotics is also a key branch in the field of surgery, enabling minimally invasive surgeries, automatic monitoring of surgical instruments...Telepresence robots have also been designed to help socially isolated people and aid rehabilitation...The biomedical applications of IoT are now present in remote patient management, monitoring of Parkinson's and Alzheimer's patients, vital data monitoring, depression monitoring via a smartwatch, glucose monitoring...

Guest Editors

Dr. Luigi Bibbò

Department of Civil Engineering, Energy, Environment and Materials (DICEAM), Mediterranean University of Reggio Calabria, Via Zehender, 89124 Reggio Calabria, Italy

Dr. Alessia Bramanti

Department of Medicine, Surgery and Dentistry, University of Salerno, 84081 Baronissi, Italy

Deadline for manuscript submissions

31 August 2025



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/232393

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

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





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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



About the Journal

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.

Editor-in-Chief

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

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, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)