

Special Issue

Advancements in Medical and Assistive Technologies Using Artificial Intelligence and Deep Learning Techniques

Message from the Guest Editors

- AI and DL in medical diagnostics for early disease detection through medical imaging or signal processing;
- the development of adaptive assistive technologies and robotics to support individuals with disabilities;
- advancements in healthcare monitoring systems powered by AI for real-time analysis;
- AI-driven biomedical signal processing;
- the application of deep learning in biomedical imaging and signal interpretation;
- smart medical device innovation for improved patient care, including security for telemedicine technologies;
- the use of AI in personalized medicine for tailored treatment plans;
- the integration of AI into IoT in healthcare environments to optimize patient outcomes;
- the ethical and security challenges in AI-driven healthcare systems.

To conclude, we welcome submissions exploring the integration of AI-based programs and AT tools or devices into reinforcement learning principles and new technologies (e.g., augmented reality, virtual reality, serious games, and telerehabilitation) for both assessment and recovery purposes, to provide participants with highly customized and tailored technological solutions.

Guest Editors

Dr. Fabrizio Stasolla

Developmental Psychology, "Giustino Fortunato" University of Benevento, 82100 Benevento, Italy

Dr. Everardo Inzunza-González

Faculty of Engineering, Architecture and Design, Universidad Autónoma de Baja California, Ensenada 22860, Baja California, Mexico

Deadline for manuscript submissions

31 July 2025



Technologies

an Open Access Journal
by MDPI

Impact Factor 4.2
CiteScore 6.7



mdpi.com/si/215521

Technologies
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
technologies@mdpi.com

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





Technologies

an Open Access Journal
by MDPI

Impact Factor 4.2
CiteScore 6.7



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



About the Journal

Message from the Editor-in-Chief

Technologies, provides a single focus for reporting on developments of all technologies, regardless of their application. It is our intention that *Technologies* becomes the journal of choice for both researchers wanting to publish their work and technologists wishing to exploit the high quality research across a wide range of potential applications. Through its open access policy, its quick publication cycle, *Technologies* will facilitate the rapid uptake and development of the research presented, ultimately providing benefit to the wider society.

Editor-in-Chief

Prof. Dr. Manoj Gupta

Department of Mechanical Engineering, National University of
Singapore, Singapore 117576, Singapore

Author Benefits

High Visibility:

indexed within ESCI (Web of Science), Scopus, Inspec, INSPIRE, and other databases.

Journal Rank:

JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1
(Computer Science (miscellaneous))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 24.6 days after submission; acceptance to publication is undertaken in 3.9 days (median values for papers published in this journal in the first half of 2024).