Special Issue

Pioneering Progress in Medical Imaging and Diagnostic Advancements

Message from the Guest Editors

"Pioneering Progress in Medical Imaging and Diagnostic Advancements" encompasses transformative strides in healthcare technology, particularly in visualizing the human body and enhancing diagnostics. Innovations in imaging modalities and XR devices lead this advancement. These breakthroughs revolutionize healthcare by enabling precise disease detection, tailoring treatment plans, and improving outcomes. VR offers detailed 3D models of internal structures, aiding diagnoses from neurological disorders to cancer. AR provides insights for preoperative planning and surgical interventions. The integration of AI algorithms enhances medical imaging, allowing swift interpretation and subtle abnormality identification. This blend of technology and medicine propels progress, with research focusing on patient-centered solutions. Advancements in medical imaging and diagnostics promise to enhance care, enable early intervention, and deepen understanding of health and disease. Keywords: Healthcare 4.0; human body tracking; visualization; behavioral analysis; digital image processing; augmented reality; virtual reality; artificial intelligence

Guest Editors

Dr. Luca Ulrich

Dr. Corrado Calì

Prof. Dr. Enrico Vezzetti

Dr. Andrea Luigi Guerra

Deadline for manuscript submissions

20 February 2026

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/201055

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

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)