



Applications of Medical Physics

Guest Editors:

Dr. Salvatore Gallo

Department of Physics “Aldo Pontremoli”, University of Milan, 20133 Milan, Italy

Prof. Dr. Ivan Veronese

Department of Physics, University of Milan, 20133 Milano, Italy

Deadline for manuscript submissions:

closed (25 June 2021)

Message from the Guest Editors

The scope of this Special Issue is to collect original research describing cutting edge physics developments in medicine. The main topics covered include medical, biomedical, and molecular imaging; image reconstruction; radiomics; machine and deep learning; nuclear medicine; radiation therapy and hadrontherapy; radiation protection and dosimetry; nanomedicine; and theranostics approaches, with a special emphasis on interdisciplinary works. Furthermore, novel approaches for characterizing and modelling materials for medical applications cover the wide overview of interest of this Special Issue. Manuscripts regarding education and training in medical physics are also welcome, as well as review articles of key applications of physics to medicine.

Keywords

- Medical imaging
- Biomedical imaging
- Molecular imaging
- Nuclear medicine
- Nuclear magnetic resonance
- Magnetic resonance imaging
- Machine and deep learning
- Radiotherapy
- Hadrontherapy
- Brachytherapy
- Ultrasounds
- Radiation protection
- Dosimetry
- Theranostics
- Nanomedicine





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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (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

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