

Special Issue

Applications of Medical Physics

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

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Deadline for manuscript submissions

closed (25 June 2021)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/48196

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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

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