Detectors for Medical Physics

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Deadline for manuscript submissions:
closed (31 October 2022)

Message from the Guest Editors

Thanks to the rapid technological development, in recent years, we have witnessed tremendous progress in instrumentation for clinical applications especially in the direction of a personalized medicine, with new and more performant detectors, imaging modalities, new particle beams for therapy, and medical accelerators becoming available.

In this scenario, it is of paramount importance to understand what the new trends in the development of detectors are and which new methods, materials, and technologies are now available in medical physics.

The scope of this Special Issue is to collect original research works on cutting-edge detectors developed for medicine. The main topics covered include medical imaging detectors, detectors used in radiation therapy and hadron therapy, radiation protection and dosimetry, microdosimetry, and nanodosimetry, with special emphasis on interdisciplinary works.

Manuscripts regarding advanced detectors, novel approaches for characterizing and modeling materials, dedicated frontend readout and data acquisitions systems, as well as review articles on detector applications in medical physics, are welcome in this Special Issue.

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Special Issue

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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.

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