Medical Imaging for Radiotherapy

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Deadline for manuscript submissions:
closed (10 October 2022)

Message from the Guest Editors

Radiotherapy was born from radiological imaging more than one hundred years ago and evolved over the years to stop being a rib of radiodiagnostic but starring in cancer cure.

This Special Issue aims to offer the opportunity to all the researchers and clinicians involved in radiation oncology to publish scientific revisions of this changing world or present their early results from original and promising research on:

- Multiparametric or metabolic imaging (MRI, PET) for target definition or predicting the radiation response;

- Radiomics and radiotherapy;

- Treatment planning on synthetic CT images;

- Implementation and validation of automatic solutions for treatment planning;

- Deformable image registration (DIR): potential applications in radiotherapy;

- Target delineation with organ motion management via 4D CT or cine MRI;

- Image-Guided Radiotherapy (IGRT) by MRI or any advanced technique for organ motion control;

- Imaging and strategy for "Adaptive" radiotherapy, with or without re-planning;

- The best imaging to assess response to radiation.

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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