



Radiation Oncology: Theory, Methods and Applications

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Message from the Guest Editors

This Special issue encourages submissions describing original research as well as review articles in the field of radiation oncology. Topics to be explored include clinical radiotherapy, experimental work in radiobiology and computational and experimental physics and engineering developments relevant to radiation oncology. Topics of interest in radiobiology include laboratory biology experiments and outcomes related to radiotherapy, biological modeling for tumor and normal tissue responses to radiation, tumor radiation sensitization and normal tissue protection from radiation. Physics and engineering developments, including biomedical imaging, nanoparticles in imaging and radiotherapy, artificial intelligence and machine learning in biomedical physics, data science in radiation oncology, radiation dosimetry, radiation therapy planning, radiation protection and patient dose monitoring and image-guided intervention radiotherapy, are also of interest.

Keywords:

- radiotherapy
- radiobiology
- biomedical physic
- image-guided radiotherapy
- data science
- biological modeling
- radiation dosimetry
- radiation therapy planning





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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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