Special Issue

New Insights into External Radiation Therapy

Message from the Guest Editor

Radiotherapy is used widely for malignant tumor treatment. The advancing technology of medical linear accelerators provides the ability to induce energetic particles into the treated tissue, thus damaging the tumor cells and, through that, curing the treated patient. The accuracy of the administered radiation dose plays a vital role in external radiation therapy; therefore, tremendous efforts have been focused on confining radiation to the treated volume while sparing the surrounding organs from exposure. Treatment planning systems for radiotherapy have also progressed significantly during the last few decades. Monte Carlo simulation programs assist in developing new radiation therapy methods and can provide assessments for radiotherapeutic accuracy. A variety of measurement techniques and apparatuses are in progress for the use of advanced radiation therapy purposes. This Special Issue will be dedicated to new radiation therapy perspectives that include all the in-use types of particle beams, emerging methods, and innovations.

Guest Editor

Dr. Itzhak Orion

Associate Professor, Nuclear Engineering Unit, Ben-Gurion University of the Negev, Beersheba, Israel

Deadline for manuscript submissions

closed (20 July 2023)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/128398

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

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

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)