Special Issue

Next-Generation Automation in Radiation Oncology: Innovations in Planning, Informatics, and Clinical Workflow

Message from the Guest Editors

Advances in automation are rapidly reshaping the practice of radiation oncology, driving improvements in efficiency, precision, and safety while promoting equity of cancer care. From intelligent contouring and automated treatment planning to quality assurance, data curation, and workflow orchestration, automated systems are evolving into critical components of modern radiotherapy and cancer research. As the field moves toward integrated, learning health care systems, there is an increasing need to evaluate and refine automation strategies that span the entire cancer care continuum—simulation, planning, delivery, verification, adaptation, follow-up, and outcomes assessment. This Special Issue invites original research articles, technical developments, clinical evaluations, and comprehensive reviews focused on automation across all aspects of radiation oncology. Our objective is to highlight emerging innovation, catalyze interdisciplinary collaboration, and showcase clinically meaningful automation that improves patient outcomes.

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Message from the Editor-in-Chief

Cancers is an international online journal addressing both clinical and basic science issues related to cancer research. The journal is publishing in Open Access format, which will certainly evolve to ensure that the journal takes full advantage of the rapidly changing world of information and knowledge dissemination. It publishes high-quality clinical, translational, and basic science research on cancer prevention, initiation, progression, and treatment, as well as other related topics, particularly to capture the most seminal studies in the rapidly growing area of immunology, immunotherapy, and tumor microenvironment.

Editor-in-Chief

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