

Special Issue

Artificial Intelligence in Radiation Oncology

Message from the Guest Editor

Artificial Intelligence (AI) is transforming radiation oncology by enhancing treatment planning, image analysis, auto-segmentation, outcome prediction, and adaptive radiotherapy. This Special Issue aims to showcase the latest advancements in AI-driven technologies and their integration into clinical workflows, with a focus on improving precision, efficiency, and patient outcomes. We invite original research articles and reviews on topics including, but not limited to:

- AI-driven treatment planning and optimization
- Deep learning and radiomics for image segmentation and tumor delineation
- AI-assisted adaptive radiotherapy and online re-planning
- AI applications in radiotherapy quality assurance and workflow automation
- Explainable and trustworthy AI in clinical decision-making
- AI-driven multi-modal data fusion for predictive modeling
- Ethical considerations and regulatory challenges of AI in radiation oncology

We welcome contributions that present novel methodologies, clinical validations, and perspectives on the future of AI in radiation oncology.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

You are cordially invited to submit research articles, short communications, comprehensive reviews, case reports or interesting images for consideration and publication in *Diagnostics* (ISSN 2075-4418). *Diagnostics* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

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