Special Issue

AI Advancements in Radiation Oncology: Innovations for Precision Medicine and Enhanced Patient Care

Message from the Guest Editors

This Special Issue is dedicated to exploring the transformative impact of artificial intelligence (AI) within radiation oncology, particularly radiotherapy and medical physics.

The accurate prediction of treatment responses is critical for tailoring radiation therapy to individual patients. AI-driven predictive models, powered by advanced data analytics, have the potential to anticipate treatment responses with unprecedented precision. Leveraging extensive datasets and sophisticated algorithms, these models guide clinicians in making informed decisions, personalizing treatment plans, and optimizing therapeutic outcomes.

This Special Issue explores the latest breakthroughs in AI-enhanced diagnostic tools, highlighting their profound implications for prompt diagnosis in radiation oncology and the various ways AI streamlines the radiotherapy process.

In conclusion, we aim for this Special Issue to be a platform for sharing knowledge, experiences, and breakthroughs in this dynamic field. We invite researchers and experts to contribute their innovative work and insights towards advancing AI applications in radiation oncology and patient care.

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