Special Issue

Artificial Intelligence in Medical Radiation Science, Radiology and Radiation Oncology

Message from the Guest Editor

Over the last decade, artificial intelligence (AI) has become a popular research topic in medicine, aiming at improving health care service quality and efficiency for individuals and populations. Simultaneously, the roles of the medical specialties, medical radiation science, radiology and radiation oncology have also become more important, but their existing workforces appear unable to match the increased demand. Hence, various AI-based solutions developed by multi-disciplinary teams of computer scientists and engineers, radiologists, radiographers, radiation oncologists, radiation therapists, medical physicists and dosimetrists have emerged to address this issue, with reported performance similar to or even better than gold standards. Examples of these solutions include automatic image segmentation, computer-aided diagnosis, automated structured reporting, radiation dose optimization, clinical decision support and image quality enhancement. This Special Issue aims to collect research articles and/or literature review papers focusing on artificial intelligence in medical radiation science, radiology and radiation oncology that is advancing AI research in these fields.

Guest Editor

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Deadline for manuscript submissions

30 September 2025

Multimodal Technologies and Interaction

About the Journal

Message from the Editor-in-Chief

Towards the end of 2018, I was approached to be the new Editor-in-Chief for the *Multimodal Technologies and Interaction* (*MTI*) journal. I was honored to be considered and happily accepted the role, starting in January 2019.

MTI is a new journal, and since starting in 2017, has published 10 issues with over 140 papers, with the number of publications continuing to grow. As Editor-in-Chief, I would like to continue increasing the number of high-quality papers that we publish, and in addition, work towards improving the journal in other ways, such as getting the journal listed on ISI, establishing an impact factor, and increasing our social media presence.

I would also like to better engage with the research community, including bringing some new members onto the Editorial Board, focusing the journal on the latest areas of interest, marketing at leading conferences and, most importantly, getting feedback from our readers.

Editor-in-Chief

Prof. Dr. Mark Billinghurst
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Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, dblp Computer Science Bibliography, and other databases.

Journal Rank:

CiteScore - Q1 (Neuroscience (miscellaneous))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 25 days after submission; acceptance to publication is undertaken in 3.8 days (median values for papers published in this journal in the first half of 2025).