Special Issue

Medical Imaging and Artificial Intelligence in Cancer

Message from the Guest Editors

Medical imaging is a critical part of cancer management and research. Despite all the advances in cancer imaging, early detection, accurate diagnosis, and tumor characterization with medical imaging remain challenging due to limitations in image spatial resolution, sensitivity, image quality variability, and image interpretation. Artificial intelligence (AI) in image acquisition, reconstruction, analysis, and diagnosis have revolutionized cancer imaging in recent years. This allows for accelerated data acquisition, enhanced signal-to-noise ratio and contrast, precise cancer prediction, diagnosis, therapeutic guidance, and outcome prediction. Major challenges related to AI in medical imaging include data availability, quality and uniformity, interpretability, bias and generalization, and legal and ethical concerns. Addressing these challenges is crucial for improving cancer diagnosis and treatment. For this Special Issue, we solicit manuscripts on medical imaging and artificial intelligence to address important technical and clinical questions related to cancer. We hope that this Special Issue will introduce state-of-the art imaging and AI to the cancer research community.

Guest Editors

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About the Journal

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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