



*tomography*



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## Deep Learning in Cancer Imaging: Developments and Future Prospects

Guest Editor:

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### Message from the Guest Editor

Machine learning, a subbranch of artificial intelligence, has been applied in medical imaging. As a subfield of machine learning, deep learning methods are now widespread in a variety of businesses and institutes such as health care worldwide. Likewise, the application of deep learning methods in cancer imaging is also accelerating, with the center of the application being cancer diagnosis, involving the development of models for automated analysis to achieve expert-level performance in routine clinical diagnostic tasks. Deep learning is also used to harness new knowledge by uncovering hidden patterns in data for better diagnosis, prognosis, and treatment responses.

The Special Issue will highlight the recent developments in and prospects of machine/deep learning methods and applications in cancer imaging. This includes the development and implementation of algorithms, data science, and new data management tools, the preclinical and clinical advancement of machine/deep learning, reviews, trends, and future aspects of machine/deep learning in cancer imaging.



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# Special Issue