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Artificial Intelligence, Segmentation, and Radiomics in Biomedical Imaging, Radiobiology and Biodiversity

Guest Editors:

Dr. Viviana Benfante

Dr. Giuseppe Salvaggio

Dr. Navdeep Dahiya

Dr. Albert Comelli

Dr. Alessandro Stefano

Deadline for manuscript
submissions:

closed (31 December 2023)

Message from the Guest Editors

Dear Colleagues,

This Special Issue deals with, but is not limited to, the following topics:

Machine- and deep-learning techniques for biomedical image analysis (i.e., segmentation of cells, tissues, organs, lesions; classification of cells, diseases, tumors, etc.); Image registration techniques; Image pre-processing techniques; Image-based 3D reconstruction; Radiomics and artificial intelligence for personalized medicine; Multimodality fusion (e.g., MRI, PET, CT, ultrasound) for diagnosis, image analysis and image-guided intervention; Machine and deep learning as tools to support medical diagnoses and decisions; Artificial intelligence in predicting treatment response and assessing disease prognosis; In vitro and in vivo preclinical assays and analysis tools for radiopharmaceutical validation; Radiopharmaceuticals biodistribution analysis of microPET/CT imaging on murine models; Theranostics; Biotechnology applied to biodiversity; Radiobiology analysis in vitro assays with tumor cell lines and in animal models of cancer.

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Special Issue



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Message from the Editor-in-Chief

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