

Special Issue

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

Message from the Guest Editors

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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