



## Image Segmentation in Radiation Oncology: Challenges and Progress

Guest Editor:

**Dr. Tonghe Wang**

Department of Radiation  
Oncology, School of Medicine,  
Emory University, Atlanta, GA  
30322, USA

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### Message from the Guest Editor

Dear Colleagues,

The main topic of this issue will be the current progress and challenges of medical image segmentation in facilitating workflow in radiation oncology. Medical imaging has been progressively integrated into every stage of radiation oncology. Novel imaging modalities are being introduced in this field to meet unique clinical needs. The increasingly high involvement of medical images potentially enables advanced clinical applications, while most of them require timely and accurate localization and delineation of the regions of interest, such as lesions and organs. Auto-segmentation has been investigated for decades with the aim of achieving fast, precise, and consistent performance. Recent years have witnessed the trend of deep learning being increasingly used in the application of medical imaging segmentation. The latest networks and techniques have been borrowed from the field of computer vision and adapted to specific segmentation tasks in radiation oncology. Although promising results have been shown in various applications, there are some open questions to be answered in future studies.





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## Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo**  
Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## Message from the Editor-in-Chief

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*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
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