



## Application of Machine Learning Using Ultrasound Images

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Deadline for manuscript  
submissions:

**closed (30 June 2022)**

### Message from the Guest Editor

Over the past few years, applications of deep learning methods have increased exponentially, including applications using ultrasound images. Deep learning tools promise to make ultrasound imaging less variable and user-dependent, make procedure time shorter, and improve guidance of biopsy and therapy applicators in image-guided interventions. Opportunities include pathology detection, classification of pathology as benign or malignant, segmentation of lesion size needed for monitoring response to therapy, quantification of changes in pathology in response to therapy, guidance and tracking of tools in the body, and other applications.

We are seeking contributions presenting machine learning algorithms, techniques, and applications that will contribute to making ultrasound imaging a more robust detection, diagnostic, pathology quantification, and image-guidance method.





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## Editor-in-Chief

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## Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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