



Advances in Clinical Application of Echocardiography

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Deadline for manuscript
submissions:

closed (20 April 2022)

Message from the Guest Editors

Echocardiography remains the cornerstone imaging technique due to its unparalleled availability, rapidity, portability, and real-time capabilities. In the last decades, there has been a wide development of novel applications. These methods provided important pathophysiological insights in the anatomical and functional quantification of ventricles, atria and valves. However, we believe that the last advance of echocardiography, in most recent years, is the gradual implementation and expanded application of these sophisticated techniques into busy echocardiography laboratory clinical practices. The emerging artificial intelligence (AI), especially machine learning. The COVID-19 pandemic highlighted the importance of extending the use of echocardiography, especially with miniaturization to other specialties and clinical settings. This Special Issue will include but not limited to speckle tracking imaging, left ventricular and atrial function, 3D echocardiography, valve disease quantification, left ventricular geometry, artificial intelligence application, POCUS and stress echocardiography, especially when focusing on their clinical application in medical practice.





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