

Special Issue

Advanced Imaging and Sensing Technologies of Cardiovascular Disease

Message from the Guest Editors

Advanced cardiovascular imaging technologies have become indispensable in the diagnosis of cardiovascular disease and translational research. This is remarkable as the cardiovascular system poses some unique imaging challenges such as the ever-changing dynamics of macro- and microvasculature and the movement of the heart itself. Nonetheless, cardiovascular imaging technology has moved past the early stages of blurry echocardiographic images. Currently, it encompasses many different technologies and applications ranging from in vitro optical mapping techniques to multimodal pre-procedural electroanatomical modelling approaches. Techniques such as 4D MRI/CT and intracardiac ultrasound have further extended diagnostic possibilities. Moreover, optical techniques such as videoplethysmography with recent image processing methods allow for seamless and contactless distant measurement of basic cardiovascular parameters in rest and exercise. For this Special Issue, we cordially invite contributors to submit original research articles, reviews, short communications and letters on all aspects of cardiovascular imaging.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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