

Special Issue

Biomedical Imaging Technologies for Cardiovascular Disease

Message from the Guest Editor

Biomedical imaging technologies have substantially increased over the past years. An important improvement in accuracy, sensitivity, and refinement has been possible thanks to advances in software and hardware. In particular, cardiovascular disease assessment of anatomy, hemodynamics, and tissue biomarkers saw exceptional improvement, aiding the stratification of patient risk and therapy. The integration of artificial intelligence and machine learning have supported novel approaches for personalized image-based diagnosis. Image-based computational-assisted diagnosis is a promising option for uncovering disease progression and personalized solutions. This Special Issue is dedicated to collecting biomedical imaging technologies for cardiovascular disease. The Issue will cover a wide range of topics: cardiac echocardiography; cardiac computed tomography; cardiac magnetic resonance; positron emission tomography; cardiovascular image processing; image-guided interventions; personalized cardiac imaging; the integration of medical imaging and computational modelling; biomedical imaging using machine learning and artificial intelligence; experimental cardiac imaging.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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