

Special Issue

Cardiovascular Imaging: Diagnosis and Therapeutic Guidance in Clinical Practice

Message from the Guest Editor

Cardiovascular magnetic resonance (CMR) imaging has emerged as a cornerstone in the non-invasive assessment of cardiac structure, function, and tissue characterization. With its unparalleled spatial resolution, reproducibility, and versatility, CMR enables accurate diagnosis across a wide spectrum of cardiovascular diseases, including cardiomyopathies, ischemic heart disease, myocarditis, valvular disorders (particularly mitral valve prolapse), and congenital anomalies. Beyond diagnosis, CMR is increasingly recognized for its pivotal role in guiding therapeutic decisions—ranging from risk stratification and timing of interventions to monitoring treatment response. The evolution of advanced techniques such as T1 and T2 mapping, late gadolinium enhancement, strain imaging, and 4D flow has expanded the clinical utility of CMR beyond traditional volumetric and functional assessment. These innovations not only improve diagnostic precision but also enhance our ability to personalize therapy and predict outcomes. This Special Issue invites original research, reviews, and clinical perspectives that explore the diagnostic accuracy, prognostic value, and therapeutic impact of CMR.

Guest Editor

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