

Special Issue

Advancements in Cardiovascular Imaging

Message from the Guest Editor

Advances in cardiovascular imaging using computed tomography are driven by innovations in technology, AI-based data modelling, and clinical validation studies, which have created a broad spectrum of novel clinical applications in cardiovascular diseases over the last decade. Most recently, novel technologies such as spectral imaging/dual-energy and photon counting have emerged and offer novel diagnostic advances. This Special Issue aims to include proof-of-concept explorative studies, clinical diagnostic/validation studies, and outcome studies (including large-scale datasets) using cardiac/cardiovascular computed tomography, with a focus on novel technologies such as spectral imaging/dual-energy and photon counting and AI-based analyses (e.g., machine learning, LLM, etc.) in cardiac computed tomography. In this Special Issue, original research articles and reviews are welcome. Research areas include all cardiovascular diseases, with a focus on coronary artery disease, atherosclerosis, structural heart disease, valves and devices, masses, atrial fibrillation, and others.

Guest Editor

Prof. Dr. Gudrun Feuchtnner

Department of Radiology, Medizinische Universität Innsbruck, Innsbruck, Austria

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Diagnostics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
diagnostics@mdpi.com

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Editor-in-Chief

Prof. Dr. Andreas Kjaer

Department of Clinical Physiology, Nuclear Medicine & PET National
University Hospital, Rigshospitalet, University of Copenhagen,
Blegdamsvej 9, DK-2100 Copenhagen, Denmark

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