# **Special Issue**

# Artificial Intelligence and Computational Simulations in Cardiovascular System

# Message from the Guest Editor

Tools using artificial intelligence (AI) offer tremendous potential for computational simulations of the cardiovascular system. The current Special Issue focuses on AI applied to all areas of computational fluid dynamics and fluid structure interaction simulations including model creation, assigning of boundary conditions and implementing rheological properties, mesh generation and optimization, as well as high-performance computing, quantification and visualization of results. Clinical applications spanning the range of congenital and acquired cardiovascular diseases will be considered.

### **Guest Editor**

Dr. John F. LaDisa

Laboratory for Translational, Experimental and Computational Cardiovascular Research, Joint Department of Biomedical Engineering, Marquette University, Milwaukee, WI, USA

# Deadline for manuscript submissions

closed (31 May 2025)



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### Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

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