

Special Issue

Mathematical Modeling of Aortic Diseases

Message from the Guest Editors

This Special Issue of *Bioengineering* titled “Mathematical Modeling of Aortic Diseases” will focus on original research and comprehensive review articles addressing the advanced mathematical modeling and analysis of the experimental investigation of complex cases of aortic diseases. Topics of interest for this Special Issue include, but are not limited to:

- Blood flow modeling in the pathological aorta;
- Novel multifidelity approaches to model blood flow in the aorta and large arteries;
- Blood–vessel interaction;
- Uncertainty quantification in image-based patient-specific simulations;
- Aortic valve modeling;
- Remodeling of the aorta;
- Novel mathematical analysis of advanced imaging techniques in the aorta;
- Blood coagulation modeling in the aorta and large arteries;
- Simulation of various aortic surgical procedures.

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About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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