Special Issue

Cardiovascular Flows

Message from the Guest Editors

The flow of blood in the cardiovascular system is a multi-scale, non-Newtonian, pulsatile flow phenomenon, with complex mechanical and biological interactions in both health and disease. Our understanding of this system has advanced tremendously in the past few decades, and with exciting developments in medical imaging technology, numerical methods, and experimental techniques, we would like to present the very latest progress in cardiovascular flow research. Though cardiovascular flow covers a broad range of topics, the aim of this Special Issue is to collect together papers that demonstrate and enable fundamental insights into cardiovascular flow. In particular, we are seeking to highlight the state-of-the–art, as well as new theoretical and experimental representations of the cardiovascular system, methods for assimilating and combining experimental and medical imaging data with computational simulations, as well as novel methods for extracting meaningful information from flow data, whether in the form of visualisations, data/model reduction, or biologically meaningful indices.
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