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Numerical Modelling of Fluid–Structure Interaction Systems

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Message from the Guest Editors

Fluid–structure interaction (FSI) is a very common physical phenomenon that inherently exists in nature, human daily life, and many engineering applications. Typical examples include flapping insects and birds, blood flows in arteries, the tail flutter of aircraft wings, vibration of turbines and compressors, etc. In most FSI problems, it is not possible to obtain analytical solutions due to the inherent complexity of such problems, and experimental studies are generally limited in scope. Accompanied by the significant development of high-performance computers in the last few decades, computational methods have been successfully applied to many new areas as an effective FSI modeling method.

This Special Issue on the “*Numerical Modelling of Fluid–Structure Interaction Systems*” will present novel advances in research which either use computational methods to study and analyze fluid–structure interaction systems, or present novel numerical methods for challenging fluid–structure interaction systems in the fields of aeronautical engineering, biomechanical engineering, biomedical engineering, environmental engineering, etc.



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Special Issue



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Message from the Editor-in-Chief

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