Special Issue

Dynamic CFD Simulations of Turbine Aerodynamics

Message from the Guest Editors

Turbines are key components of several engineering flow devices, such as aircraft engines and wind turbines. Harnessing the flow's kinetic energy to generate optimal power depends on several factors, including the complex interaction between oncoming fluid and turbine, blade shape and size, and the condition of the blades themselves. In this regard, computational fluid dynamics (CFD) has been a vital tool for predicting turbine aerodynamics. However, as the scale and complexity of turbines grow rapidly, there is increasing demand for developing advanced CFD tools to better predict flow and turbine blade interaction, and to optimize blade design for improved efficiency. This Special Issue will cover novel modeling and numerical techniques for turbine aerodynamics.

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