Special Issue

Computational Fluid Dynamics in Gas Turbines

Message from the Guest Editors

Turbine and compressor performance is a crucial aspect in terms of increasing efficiency and reducing emissions for multiple applications. Today, computational fluid dynamics (CFD) is a key enabler allowing the pursuit of such goals. However, current aerodynamic design tools, mainly based on RANS/URANS approaches, frequently fail to predict flow details in blade passages. In consideration of this fact, researchers in the field of CFD are progressively moving towards the study of high-fidelity approaches in order to gain further insights into turbomachinery flows. This Special Issue invites high-quality research papers covering a wide range of topics related to the development and application of CFD methods for turbomachinery design and analysis. All topics related to gas turbines, such as fans, compressors, turbines, etc., are within its scope. We hope that researchers involved in the aforementioned fields will consider participating in this Special Issue.

Guest Editors

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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