

Special Issue

Computational Fluid Dynamics-Based Technology for Design and Optimization of Gas Turbines

Message from the Guest Editors

In this Special Issue, we welcome the submission of works related to CFD-based technology for the design and optimization of gas turbines, with a particular focus on the following topics:

- CFD-based technology for compressor design and optimization;
- CFD-based technology for combustion chamber design and optimization;
- CFD-based technology for turbine design and optimization;
- CFD-based technology for the seal, disc cavity, and related components' design and optimization;
- CFD-based technology for detonation engines as a future of aero-engines;
- Novel conjugate and multi-scale CFD simulation method investigations and validations;
- Application of neural networks for optimization in gas turbines;
- Rapid simulation and optimization methods based on AI technology.

Guest Editors

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Dr. Chao Zhang

Deadline for manuscript submissions

closed (20 May 2026)



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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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