



Design, Simulation, Thermal Management, and Performance Assessment of Gas Turbines and Aeroengine System

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Deadline for manuscript submissions:

closed (10 March 2023)

Message from the Guest Editors

Dear Colleagues,

Gas turbines and aeroengines have become important, widespread and reliable devices in fields such as power generation, aviation, and the oil and gas industry. To improve the system performance of gas turbines or aeroengines, various studies have been conducted by both academic and industrial communities. Therefore, the main objective of this Special Issue is to collect the ideas of research communities worldwide in a common platform and to present the latest advances and developments in the design, simulation, thermal management, and performance assessment of gas turbines and aeroengine systems. Topics and interests of this Special Issue include, but are not limited to:

- Design and optimization for advanced or unconventional thermodynamic systems;
- Design and optimization for gas turbine components compressor, turbine and combustor;
- High-Fidelity simulations and validations;
- High-temperature and high-power heat exchangers;
- Thermal management of gas turbine and aeroengine systems;
- Analysis of system integration;
- Condition-based operations and maintenance;
- Carbon capture and storage for the gas turbine system.





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Message from the Editor-in-Chief

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