

Special Issue

Advanced Aero-Thermal Instrumentation and Computational Prediction of Turbomachinery Flows

Message from the Guest Editor

This Special Issue on "Advanced Aero-Thermal Instrumentation and Computational Prediction of Turbomachinery Flows" contains recent work in the areas of steady/unsteady aero-thermal flow systems, aero-thermal optimizations, and fluid–solid interactions. Submissions from all areas of aero-propulsion systems, ground-based power generation systems, and general turbomachinery fields are expected. Papers dealing with recently developed novel measurement systems are highly encouraged. Advanced aero-thermal instrumentation-related papers, including particle image velocimetry PIV, laser doppler anemometry LDA, pressure/temperature sensitive coatings, fast response pressure and heat flux sensors, thermographic liquid crystals, and novel film cooling effectiveness measurement methods are included in the broad scope of the Special Issue. Multi-dimensional turbomachinery aerothermal computations using the finite volume method, finite element method, complex grid generation approaches applied to the main gas path, cooling systems, and secondary flow systems will be considered.

Guest Editor

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Deadline for manuscript submissions

closed (31 October 2020)



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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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