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# Advanced Aero-Thermal Instrumentation and Computational Prediction of Turbomachinery Flows

Guest Editor:

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Deadline for manuscript submissions: closed (31 October 2020)



## Message from the Guest Editor

Dear Colleagues,

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, aerothermal 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.

Prof. Dr. Cengiz Camci Guest Editor







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