

# Special Issue

## Advances in Critical Aspects of Turbomachinery Components and Systems

### Message from the Guest Editors

This *IJTTP* Special Issue will comprise a collection of high-quality review papers published free of charge by editorial board members and authors invited by the society review chairman, the journal editors, and the editor-in-chief. The objective is to gather the most recent advances in the thermodynamics, the fluid mechanics, the heat-transfer, and the applied combustion of aerospace, marine, and industrial energy devices and turbomachinery-based systems, both from a component and system perspective. Critical aspects requiring major efforts and technological leaps are reviewed and analysed, starting with the state-of-the-art technologies currently available and implemented. The manuscripts address specific subjects among the following topics:

- Turbomachinery;
- Aerospace propulsion;
- Marine propulsion;
- Turbochargers;
- Power generation;
- Thermodynamics;
- Fluid mechanics;
- Heat transfer;
- Vibrations;
- Aero-acoustic;
- Aero-mechanics;
- Applied combustion (aeronautic, aerospace, stationary power systems);
- Wind energy;
- Marine energy.

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## About the Journal

### Message from the Editor-in-Chief

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#### Editor-in-Chief

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journal in the second half of 2025).