

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.

Guest Editors

Prof. Tony Arts

Department of Turbomachinery and Propulsion, von Karman Institute for Fluid-Dynamics, Waterloosesteenweg 72, 1640 Sint-Genesius-Rode, Belgium

Dr. Rodolfo Bontempo

Dipartimento di Ingegneria Industriale, Università degli Studi di Napoli Federico II, via Claudio, 21, 80125 Napoli, Italy

Deadline for manuscript submissions



**International
Journal of
Turbomachinery,
Propulsion and
Power**

**an Open Access Journal
Published by MDPI**

**Impact Factor 1.3
CiteScore 2.3**



mdpi.com/si/118496

*International Journal of
Turbomachinery, Propulsion
and Power*

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijtp@mdpi.com

mdpi.com/journal/

ijtp





International Journal of Turbomachinery, Propulsion and Power

an Open Access Journal
Published by MDPI

Impact Factor 1.3
CiteScore 2.3



[mdpi.com/journal/
ijtp](https://mdpi.com/journal/ijtp)



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Marcello Manna

Dipartimento di Ingegneria Industriale, Università degli Studi di Napoli
Federico II, Via Claudio 21, 80125 Naples, Italy

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, and
other databases.

Journal Rank:

JCR - Q2 (Engineering, Aerospace)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 98.9 days after
submission; acceptance to publication is undertaken in 21.1
days (median values for papers published in this journal in
the second half of 2024).