

# Special Issue

## Fan Noise, Aerodynamics, Applications and Systems

### Message from the Guest Editor

The aim of this Special Issue is to promote the recent advances in fan technology and provide insights into the development and operation of industrial fans for a wide range of applications. The paper submissions for this Special Issue are welcome to cover some of the following aspects, as well as other related topics:

- The development of analytical and computational aerodynamic methods;
- Emerging advanced fan design methodologies;
- The application of analytical and computational methods for fan analysis, design and optimization;
- Structural mechanical aspects (vibration, fatigue and flutter, preventive maintenance, condition monitoring, predictive maintenance);
- Experimental methods in fan analysis;
- Flow-induced and structure-borne fan noise;
- Methods of sound source localization in fans;
- Aeroacoustic models and computational (aero)acoustic methods;
- Psychoacoustics: product sound quality, perception of annoyance;
- Compliance with legislation and regulations;
- Connectivity technologies and digital services;
- Fan system effect.

### Guest Editor

Prof. Dr. Thomas Carolus

1. Steinbeis-Transfer Center FLOWTRANS, 57250 Netphen, Germany
2. Chair of Applied Fluid Mechanics and Turbomachinery, Universität Siegen, 57068 Siegen, Germany

### Deadline for manuscript submissions

closed (31 October 2022)



## International Journal of Turbomachinery, Propulsion and Power

an Open Access Journal  
Published by MDPI

Impact Factor 1.8  
CiteScore 2.4



[mdpi.com/si/114344](https://mdpi.com/si/114344)

*International Journal of  
Turbomachinery, Propulsion  
and Power*

Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijtp@mdpi.com](mailto:ijtp@mdpi.com)

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

[ijtp](https://ijtp)





# International Journal of Turbomachinery Propulsion and Power

---

an Open Access Journal  
Published by MDPI

---

Impact Factor 1.8  
CiteScore 2.4



[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 53.7 days after  
submission; acceptance to publication is undertaken in  
17.5 days (median values for papers published in this  
journal in the first half of 2025).