

## Special Issue

# Optimization and Flow Characteristics in Advanced Fluid Machinery

### Message from the Guest Editors

This Special Issue will promote a platform for the sharing of knowledge among researchers in the field of fluid machinery including theoretical analysis, numerical simulation, and experimental study. This Special Issue will cover a wide range of disciplines as follows:

- Optimization of advanced fluid machinery using different advanced algorithms;
- Flow characteristics of advanced fluid machinery using numerical and experimental methods;
- Vibration and noise of advanced fluid machinery;
- Fluid-structural coupling analysis of advanced fluid machinery;
- Cavitation and multi-phase flow of advanced fluid machinery;
- New energy systems, simulation and optimization;
- Other aspects on fluid machinery.

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### Guest Editors

Prof. Dr. Chuan Wang

Prof. Dr. Li Cheng

Dr. Qiaorui Si

Dr. Bo Hu

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### Deadline for manuscript submissions

closed (30 November 2022)



## Machines

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## About the Journal

### Message from the Editor-in-Chief

*Machines* is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided. There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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### Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso  
CISE - Electromechatronic Systems Research Centre, University of  
Beira Interior, Calçada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

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### Author Benefits

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#### Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q1  
(Control and Optimization)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.9 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).