Special Issue

Fault Diagnosis and Vibration Signal Processing in Rotor Systems

Message from the Guest Editors

Rotor systems are kernel components of rotating machinery and are applied in most industrial fields, such as aero-engines, gas turbines, steam turbines, generators, electric motors, and mechanical manufacturing. Vibration is integral to these rotating systems, especially in high-speed rotating systems, and the almost all the faults may show special characteristic compared with regular work.

The aim of this Special Issue is to compile original research and review articles on the topics of fault diagnosis and related vibration signal processing. Topics of interest in this session include, but are not limited to

- Vbiration of wind power system with faults
- Dynamic modeling of rotor systems
- Improvement of theoretical methods rotor systems
- Simulation methods for rotor systems
- Vibration and stability control of rotor systems
- Intelligent sensing and signal analysis for rotor systems
- Intellignet fault diagnosis for rotor systems
- Rotor systems with magnetic bearings

Guest Editors

Dr. Yongfeng Yang

Prof. Dr. Jin Zhou

Prof. Dr. Rafael Morales

Dr. Alexandre Presas

Dr. Saleh Mobayen

Deadline for manuscript submissions

closed (25 September 2025)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/156602

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/journal/sensors

MDPI

About the Journal

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)