Special Issue

Electromagnetic Non-Destructive Testing and Evaluation: 2nd Edition

Message from the Guest Editors

Due to the need to avoid structural failure and incidents, the safety of engineering structures has received much attention worldwide. There is high demand for non-destructive approaches to monitoring, inspecting and evaluating the integrity of mechanical structures, such as oil/gas pipelines, fuel tanks, and aero-engines, during their fabrication/construction and in-service operations before catastrophic accidents occur.Hitherto, electromagnetic non-destructive testing and evaluation (NDT&E) techniques have been used in the detection, characterisation and assessment of critical flaws, which threaten structural integrity. However, as none of these techniques are universal, none be considered skeleton keys for the NDT&E of in-service structures. In view of this, more and more advanced electromagnetic non-destructive testing methods have been proposed that are complementary to current techniques.We invite researchers to contribute reviews and original articles focusing on electromagnetic non-destructive testing and the evaluation of critical components and structures in engineering fields, including aerospace, energy, chemical and transportation engineering.

Guest Editors

Prof. Dr. Yong Li

State Key Laboratory for Strength and Vibration of Mechanical Structures, Shaanxi Engineering Research Centre of NDT and Structural Integrity Evaluation, School of Aerospace Engineering, Xi'an Jiaotong University, Xi'an 710049, China

Dr. Yang Fang

State Key Laboratory for Strength and Vibration of Mechanical Structures, Shaanxi Engineering Research Centre of NDT and Structural Integrity Evaluation, School of Aerospace Engineering, Xi'an Jiaotong University, Xi'an 710049, China

Deadline for manuscript submissions

20 May 2026

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/257567

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
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 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)