







an Open Access Journal by MDPI

Thermography Sensing-Based Non-destructive Testing Methods and Applications

Guest Editors:

Prof. Dr. Bin Gao

School of Automation Engineering, University of Electronic Science and Technology of China, Chengdu 610056, China

Prof. Dr. Junyan Liu

School of Mechatronics Engineering, Harbin Institute of Technology, Harbin 150001, China

Prof. Dr. Yunze He

College of Electrical and Information Engineering, Hunan University, Changsha 410082, China

Deadline for manuscript submissions:

15 November 2024

Message from the Guest Editors

Dear Colleagues,

Thermography non-destructive testing is an overarching field of research focusing on the physics-mathematical foundations and practical applications of thermography NDT and its multi-excitation, interpretation, system, signal processing and artificial intelligent algorithms that learn, reason and act. Potential topics for this Special Issue include but are not limited to the following:

- Induction, optical, laser, ultrasound, and flash thermography NDT;
- Multimodality excitation, such as lock in, pulsed, step heating, etc.;
- Physical guided thermography processing and machine learning;
- Different thermography NDT applications;
- Computer vision and 3D reconstruction by multimodal sensor data fusion;
- Fusion of thermography NDT with other NDT methods;
- Non-destructive testing and evaluation and structure health monitoring for material characterization, structural integrity, etc.

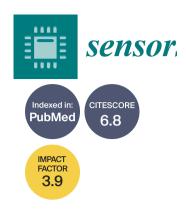
For more information, please visit: mdpi.com/si/189020

Prof. Dr. Bin Gao Prof. Dr. Junyan Liu Prof. Dr. Yunze He Guest Editors



mdpi.com/si/189020





an Open Access

Journal by MDPI

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

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.

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 & Instrumentation*) / CiteScore - Q1

(Instrumentation)

[F]

Contact Us

Sensors Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/sensors sensors@mdpi.com X@Sensors_MDPI