

Special Issue

Advanced Sensing and Measurement for Multi-Domain Interactions in Electrified Transportation Systems

Message from the Guest Editors

This Special Issue aims to present and disseminate the latest advances in sensing, measurement, monitoring, modelling, and diagnostics for multi-domain interactions in electrified transportation systems. Topics of interest for publication include, but are not limited to, the following:

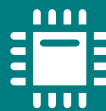
- The sensing and measurement of multi-domain interactions in electrified transportation systems.
- The multi-physics modelling and experimental characterization of coupled engineering phenomena.
- Electric sliding contact monitoring and diagnostics.
- Sensing and diagnostics for traction motors and drive systems.
- Thermal, electromagnetic, and mechanical interaction analysis in transport equipment.
- Intelligent condition monitoring and fault diagnosis for coupled systems.
- Signal processing and feature extraction for multi-domain measurements.
- Digital twins and data-driven methods for coupled transportation systems.
- Sensor fusion for complex state perception and health assessment.
- Reliability, durability, and safety evaluation under multi-domain coupling conditions.

Guest Editors

Prof. Dr. Yang Song
Dr. Saikat Dutta
Dr. Hongrui Wang

Deadline for manuscript submissions

25 November 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 9.4
Indexed in PubMed

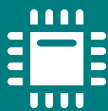


mdpi.com/si/276426

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

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





Sensors

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 9.4
Indexed in PubMed



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



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)