

Special Issue

Soft Sensors in the Intelligent Process Industry

Message from the Guest Editors

Soft-sensors are inferential data models that use easy-to-measure data (from physical sensors) to predict difficult-to-measure variables online. These difficult-to-measure variables are commonly associated with the quality of the process and often cannot be automatically measured at all or can only be measured at high costs, sporadically, or with high delays. Soft-sensors benefit many industrial processes, enabling the online monitoring of process quality, increasing performance, and positively impacting process sustainability. At the same time, soft-sensors pose many specific challenges in all design steps and due to the nature of industrial data. These challenges have led to increased heterogeneous modeling strategies for soft sensors in the last few years. This special session aims to connect the researchers who work with soft-sensors, to share their recent advances, address innovative solutions, paradigms, and emerging issues. Also, there is a specific scope for soft sensor applications, intending to increase the community's visibility and share potential benefits of adopting soft-sensor in the process industry.

Guest Editors

Dr. Francisco Alexandre Andrade Souza

Department of Analytical Chemistry & Chemometrics, Radboud University, 6525 AJ Nijmegen, The Netherlands

Prof. Dr. Maria Gabriella Xibilia

Department of Engineering, University of Messina, Contrada Di Dio, Vill. S. Agata, 98166 Messina, Italy

Deadline for manuscript submissions

closed (10 February 2023)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/94693

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 3.5
CiteScore 8.2
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)