

Special Issue

Sensing Moisture in Timber: Measurement Techniques and IoT Monitoring Systems for Sensor Networks

Message from the Guest Editor

Monitoring the moisture content of timber is important to maintain timber in good condition. There are multiple techniques based on resistance, capacitance, microwaves, or a combination of different methods for accurate moisture content measurement. Low-power and reduced size devices need to be developed for sensing timber in multiple locations by using remote monitoring. The Special Issue also welcomes any contribution related to complete IoT systems (data server, user interfaces, etc) and data analysis algorithms for timber analysis, especially moisture content analysis.

The topics include but not limit to:

- Sensors for timber moisture content analysis and other properties
- Timber sensing devices for remote sensing
- Timber sensing devices for specific applications: drying ovens, stocked timber, structural timber, furniture and others
- Communication protocols for timber sensing nodes: low power, long-range, etc.
- IoT infrastructure and applications for timber monitoring
- Timber data analysis methods to detect and predict timber deterioration
- Timber monitoring applications: heritage monitoring, civil infrastructures, buildings, and houses

Guest Editor

Prof. Dr. Alfredo Rosado Muñoz

Department of Electronic Engineering, University of Valencia, 46100 Burjassot, Spain

Deadline for manuscript submissions

closed (20 July 2021)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/66932

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

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)