



## Multisensor and Multimodal Datasets in Intelligent Home for Context-Awareness, Human Home Interaction and Dialogue

Guest Editors:

**Dr. François Portet**

**Dr. Kristina Yordanova**

**Dr. Hirohiko Suwa**

**Dr. Emma Tonkin**

Deadline for manuscript  
submissions:

**closed (31 March 2021)**

### Message from the Guest Editors

Intelligent home systems rely on sensor information and models of the underlying user behaviour to reason about the needs of the users and assist them in their everyday activities, the high quality large-scale datasets is necessary. While datasets and the process of collecting and annotating them are highly developed in some fields, this data collection process is less systematic. This call encourages submissions reporting methodological or experimental studies about ground truth labelled multisensor corpus collections.

The topics of interest include but are not limited to:

- Methods and intelligent tools for ecological corpus collection in intelligent or the general houses;
- Multimodal corpora (microphones, video cameras and any other sensors) made publicly available to the community;
- Processes of and best practices in collecting ecological user data;
- Improving and evaluating the quality of annotations;
- Ethical and privacy issues in data collection in home;
- Overview of currently available corpora in smart home;
- Synthetic data generation for improving models learning;
- Machine learning techniques to re-use mismatched data.





*sensors*



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

## 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.

## 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 (Chemistry, Analytical) / CiteScore - Q1 (Instrumentation)

## Contact Us

---

*Sensors* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sensors](http://mdpi.com/journal/sensors)  
[sensors@mdpi.com](mailto:sensors@mdpi.com)  
[X@Sensors\\_MDPI](#)