

## Special Issue

# Extended Reality in Medicine and Healthcare: Methods, Technologies, Applications and Future Trends

### Message from the Guest Editors

Extended Reality (XR), a term that encompasses virtual, augmented, and mixed reality, has the potential to revolutionize healthcare and medicine. From training healthcare professionals to enhancing patient care, XR can offer new ways to learn, diagnose, treat, and rehabilitate patients. As the technology continues to improve and become more accessible, the healthcare industry must explore its potential and address its challenges. This Special Issue aims to provide a forum for researchers, practitioners, and experts to share their latest findings, insights, and experiences in using XR for healthcare and medicine. We invite original research articles, reviews, case studies, and perspectives. This Special Issue addresses interactive technologies and systems, such as head-mounted displays, that can be employed for extended reality applications in medicine and health. Such topics comply with the scope of *Sensors*, including “Sensor technology and application”, “Human–computer Interaction”, “Vision/camera based sensors”, and “Sensing and imaging”.

---

### Guest Editors

Dr. Alida Mazzoli

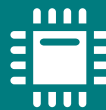
Dr. Marco Mandolini

Dr. Agnese Brunzini

---

### Deadline for manuscript submissions

30 June 2025



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 7.3  
Indexed in PubMed



[mdpi.com/si/164645](https://mdpi.com/si/164645)

*Sensors*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

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





# Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 7.3  
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 (Chemistry, Analytical) / CiteScore - Q1 (Instrumentation)