

## Special Issue

# Advanced Imaging and Sensing Technologies of Cardiovascular Disease

### Message from the Guest Editors

Advanced cardiovascular imaging technologies have become indispensable in the diagnosis of cardiovascular disease and translational research. This is remarkable as the cardiovascular system poses some unique imaging challenges such as the ever-changing dynamics of macro- and microvasculature and the movement of the heart itself. Nonetheless, cardiovascular imaging technology has moved past the early stages of blurry echocardiographic images. Currently, it encompasses many different technologies and applications ranging from in vitro optical mapping techniques to multimodal pre-procedural electroanatomical modelling approaches. Techniques such as 4D MRI/CT and intracardiac ultrasound have further extended diagnostic possibilities. Moreover, optical techniques such as videoplethysmography with recent image processing methods allow for seamless and contactless distant measurement of basic cardiovascular parameters in rest and exercise. For this Special Issue, we cordially invite contributors to submit original research articles, reviews, short communications and letters on all aspects of cardiovascular imaging.

### Guest Editors

Dr. Andreas Haeberlin

Dept. of Cardiology, Bern University Hospital, University of Bern, Bern, Switzerland

Prof. Dr. Piotr Augustyniak

Department of Biocybernetics and Biomedical Engineering, AGH University of Krakow, Al. Adama Mickiewicza 30, 30-059 Kraków, Poland

### Deadline for manuscript submissions

closed (20 May 2023)



## Sensors

an Open Access Journal  
by MDPI

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/115949](https://mdpi.com/si/115949)

*Sensors*  
Editorial Office  
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 3.5  
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)