

# Topical Collection

## Medical Image Classification

### Message from the Collection Editors

Given the plethora of new instruments and sensors (some now attached to cell phones), medical data are accumulating at an unprecedented rate, and there is no reason to believe that the complexity and the amount of data will do anything other than continue to snowball. More than ever, machine learning algorithms are needed to realize the potential for medical science that is embedded in this avalanche of data. The purpose of this TC is to collect studies representing the state-of-the-art in medical image classification from many different modalities: computed tomography (CT), magnetic resonance imaging (MRI), positron emission tomography (PET), functional MRI (fMRI), electroencephalography (EEG), etc. Multimodal systems are especially, though not exclusively, solicited.

Keywords:

- biomedical image analysis
- generative adversarial networks
- multimodal images
- deep learners
- convolutional neural networks
- image segmentation
- feature learning
- image augmentation
- ensembles
- descriptors

---

### Collection Editors

Prof. Dr. Sheryl Berlin Brahnam

Dr. Loris Nanni

Dr. Rick Brattin

---



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/59380](https://mdpi.com/si/59380)

*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  
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)