



## Deep Learning-Based Heart and Brain Sensing and Imaging

Guest Editor:

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Deadline for manuscript submissions:  
**closed (10 February 2025)**

### Message from the Guest Editor

The diagnosis and prognosis of conditions related to the human heart and brain in hospitals predominantly rely on medical images and sensor data; these medical data are processed in order for the doctor to study the patient's cardiac and neurological condition and information.

This Special Issue will include papers pertaining to biomedical engineering, computer vision, and Internet of things, as well as the theoretical and practical aspects of various sensors and information theory in medical image processing.

Original research and review articles are welcome to be submitted for this Special Issue. Submitted papers should address the following topics, though this list is not exhaustive:

- ECG/EEG sensing and signal processing;
- Medical image processing related to the heart and brain;
- Bioinformatics for healthcare engineering;
- Supervised/unsupervised learning algorithms for ECG/EEG diagnosis applications;
- Explainable AI in ECG/EEG applications;
- Image retrieval, segmentation, grouping, and shaping;
- Internet of things (IOT);
- Applying machine learning-empowered sensing to industrial scenarios.





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## Message from the Editor-in-Chief

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