Special Issue

Bridging Medical Imaging and Biosignal Analysis: Innovations in Healthcare Diagnostics

Message from the Guest Editors

The convergence of medical imaging and biosignal analysis is opening new frontiers in healthcare, offering unprecedented opportunities for early diagnosis, personalized treatment, and patient monitoring. The extraction and analysis of biomarkers from imaging data and physiological measurements are critical for understanding disease mechanisms and tailoring interventions. This Special Issue highlights the integration of medical imaging with biosignal analysis. We focus on methodologies for extracting clinically relevant biomarkers, improving the accuracy of physiological measurements, and enhancing the diagnostic capabilities of existing technologies. We also welcome contributions that explore the application of artificial intelligence (AI) to these processes, along with innovative approaches to signal processing and the integration of multi-modal data. Research that emphasizes the clinical application in improving patient outcomes is highly encouraged. We are interested in tangible impacts on healthcare practices and patient care through the integration of imaging and biosignal analysis.

Guest Editors

Dr. Simona Turco

Department of Electrical Engineering, Eindhoven University of Technology, Groene Loper 19, 5612 AZ Eindhoven, The Netherlands

Dr. Massimo Salvi

Biolab, PoliToBIOMed Lab, Department of Electronics and Telecommunications, Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129 Turin, Italy

Deadline for manuscript submissions

31 October 2025

About the Journal

Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

Editor-in-Chief

Prof. Dr. Raimondo Schettini
Department of Informatics, Systems and Communication, University of Milano-Bicocca, viale Sarca, 336, 20126 Milano, Italy

Author Benefits

Open Access
free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:
indexed within Scopus, ESCI (Web of Science), PubMed, PMC, dblp, Inspec, Ei Compendex, and other databases.

Journal Rank:
JCR - Q2 (Imaging Science and Photographic Technology) / CiteScore - Q1 (Radiology, Nuclear Medicine and Imaging)