Special Issue

Advances in Machine Learning for Medical Imaging Applications

Message from the Guest Editor

We are pleased to invite you to contribute to this Special Issue, which aims to highlights advancements in machine learning for medical imaging. AI has transformed disease detection, segmentation, and image reconstruction, improving diagnostic accuracy and efficiency. Deep learning and generative models contribute to early disease detection, personalized treatment, and workflow automation. However, challenges like data scarcity, model interpretability, and generalization remain critical research areas.

This Special Issue aims to explore cutting-edge machine learning methodologies and their applications in medical imaging. By bringing together state-of-the-art research, we seek to advance the field and provide a deeper understanding of AI-driven medical diagnostics. The scope includes, but is not limited to, the following:

- Generative Models for Medical Imaging
- Automated Disease Detection and Segmentation
- AI-driven Post-Processing and Ground Truth Refinement
- ML applications in Brain Imaging and Neurological Disorders
- Multimodal Learning in Medical Imaging
- Few-Shot and Self-Supervised Learning
- AI Explainability and Trustworthiness in Healthcare

Guest Editor

Dr. Eftychios E. Protopapadakis

School of Information Sciences, University of Macedonia, 156 Egnatia Street, GR-546 36 Thessaloniki, Greece

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Journal of Imaging
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jimaging@mdpi.com

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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

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