Special Issue

Advanced Machine Learning Technologies and Their Applications in Intelligent Imaging and Image Processing

Message from the Guest Editors

Intelligent imaging and image processing is one of the fundamental tasks in the area of machine learning and artificial intelligence. Despite the promising results achieved using advanced machine learning technology and their increasing number of related applications and achievements, there remain several unsolved challenges regarding their practical applications, such as efficient image prior modeling, fast and robust large-scale optimization algorithms, etc. There is ample room for improvement in contemporary theories and methodologies for intelligent imaging, image processing, and their applications. The aim of this Special Issue is to discuss new machine learning technologies and their applications in intelligent imaging and image processing. The topics include but not limited to new deep learning techniques; low-level image processing, restoration, and enhancement; intelligent sensing systems; signal processing; multi-sensor imaging fusion; and high-level image visions including image classification and recognition.

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Deadline for manuscript submissions

15 September 2025

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/213504

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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