

Special Issue

Advances in Image Processing and Computer Vision Based on Machine Learning, 2nd Edition

Message from the Guest Editors

This Special Issue will be dedicated to recent advances in image processing and computer vision. The recent explosion in developments and application areas in this field is largely due to the powerful capabilities of machine learning algorithms and, more specifically, convolutional neural networks (CNNs). Computer vision plays an important role in healthcare (e.g., COVID-19), anti-crime applications, and countering hydrogeological disruption. This Special Issue will present original, unpublished, ground-breaking research in the metaverse and computer vision, focusing on new algorithms and mechanisms, such as artificial intelligence, machine learning, and explainable artificial intelligence (XAI). We aim to bring leading scientists and researchers together and create an interdisciplinary platform for the exchange of computational theories, methodologies, and techniques. The purpose of this Special Issue is to disseminate research papers or state-of-the-art surveys that pertain to novel or emerging applications in the field of image processing and computer vision based on machine learning algorithms.

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Deadline for manuscript submissions

15 October 2025



Electronics

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CiteScore 6.1



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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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