

Special Issue

Image Processing and Object Detection Using AI

Message from the Guest Editors

The purpose of this Special Issue is to report on the advances in state-of-the-art research on image processing and object detection by using AI. This includes the design and development of novel algorithms based on AI, such as machine learning and deep learning, for applications in image processing and object detection. Manuscripts are required to show significant improvements in a variety of learning methods, problem conceptualization, data collecting and processing, and feature engineering through critical comparisons with existing methodologies. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Image/video processing;
- Computer vision and image processing;
- Medical image fusion;
- Medical image segmentation;
- (Multiple) object detection;
- (Multiple) object tracking;
- Image/video captioning and visual question and answering;
- Time series analysis via deep learning;
- Pattern recognition in engineering and biomedical sciences;
- Computer aided detection/diagnosis;
- Computer assisted surgery;
- Multimodal information fusion.

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About the Journal

Message from the Editor-in-Chief

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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).