

Special Issue

Advances in Image Recognition, Image Segmentation, Image Fusion, and Singal Processing

Message from the Guest Editor

We are pleased to invite you to contribute to our Special Issue. This research area stands at the forefront of modern computational techniques, offering transformative applications in medical imaging, remote sensing, autonomous vehicles, and more. With rapid advancements in machine learning and deep learning, innovative approaches in image processing and analysis are becoming increasingly critical. In particular, the integration of visual-language models is revolutionizing how systems understand and relate visual content to natural language, while novel grounding segmentation techniques are enhancing object localization by leveraging textual and contextual cues. This Special Issue aims to highlight the latest methodologies and breakthroughs that address both the theoretical and practical challenges in these domains. This SI aims to gather a collection of high-quality articles that explore advanced techniques and novel applications in image recognition, segmentation, fusion, and signal processing. We aim to foster interdisciplinary collaborations and present research that bridges cutting-edge approaches with real-world applications.

Guest Editor

Dr. Xi Yu

Foundation Model Group, Artificial Intelligence Department,
Brookhaven National Laboratory, Upton, NY 11741, USA

Deadline for manuscript submissions

15 October 2025



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/236834

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)



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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di
Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus /
SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /
CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).