

Special Issue

Recent Advances in Pixel-Wise Image Understanding

Message from the Guest Editors

Pixel-wise image understanding is a critical area of research in computer vision that aims to analyze images at the pixel level to infer semantic information such as object boundaries, textures, and scene understanding. This area of research has a wide range of applications, such as robotics, autonomous driving, and multimedia. We believe that pixel-wise imagery analysis can provide elaborate analysis results and facilitate other more high-level semantic understanding tasks. **For this Special Issue, we welcome contributions related to, but not limited to, the following:**

- Semantic segmentation/instance segmentation;
- Image super-resolution;
- Crowd counting/object density estimation;
- Image generation/translation/synthesis;
- Depth/height estimation;
- Optical/traffic/crowd flow prediction;
- Road network detection;
- Change detection;
- Pixel-wise labeled dataset;
- Other tasks on pixel-wise classification or regression.

Guest Editors

Dr. Junyu Gao
Dr. Zhanxuan Hu
Dr. Xinxin Zuo

Deadline for manuscript submissions

closed (15 November 2023)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/166349

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 guestedited 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 16.4 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).