Special Issue

Investigations of Object Detection in Images/Videos Using Various Deep Learning Techniques

Message from the Guest Editors

Object detection is a mainstream and challenging branch of computer vision, and it has attracted much research attention in recent years because of its close relationship with video analysis and image understanding. Traditional object detection methods are built on handcrafted features and shallow trainable architectures. The performance easily stagnates by constructing complex ensembles that combine multiple low-level image features with high-level contexts from object detectors and scene classifiers. Hence, it is essential to build the object detection datasets and investigate the few-shot learning methods. Furthermore, to achieve real-time object detection, it is necessary to improve the model efficiency and design light-weighted models. This Special Issue is aimed at addressing the following issues:

- Salient, face and pedestrian detection.
- Object detection architecture designing.
- SAR object detection.
- Infrared object detection.
- Real-time object detection.
- Object detection datasets building.
- Few-shot object detection.
- Small object detection.
- Underwater object detection.
- Image enhancement and image generation.
- Data augmentation.

Guest Editors

Dr. Junchao Zhang

Dr. Moran Ju

Dr. Xiangyue Zhang

Deadline for manuscript submissions

closed (15 February 2024)

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/139878

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

mdpi.com/journal/electronics

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

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).

MDPI