Special Issue

Object Recognition and Target Detection in Computer Vision

Message from the Guest Editor

Object recognition and target detection are fundamental components of computer vision, enabling machines to intelligently analyze and interact with visual environments. These tasks are essential for a wide range of applications, including pedestrian and obstacle detection in autonomous vehicles, tumor localization in medical imaging, and anomaly detection and activity monitoring in surveillance systems. Object detection has evolved from early template-matching and feature-based methods to more advanced handcrafted descriptors. However, challenges such as occlusion handling, scalability in low-resource environments, 3D perception, and ethical concerns—including bias mitigation and privacy-aware tracking—remain open research problems.This Special Issue aims to highlight innovative research directions to address these challenges, emphasizing novel algorithms, datasets, and applications. Therefore, we invite authors to submit original and unpublished results on topics including, but not limited to, efficient deep learning models, explainable AI for object detection, and emerging trends such as event-based vision and embodied AI.

Guest Editor

Dr. Bushra Jalil

TeCIP Institute of Scuola Superiore Sant'Anna, 56124 Pisa, Italy

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

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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.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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