

Special Issue

Emerging Remote Sensing Techniques and Applications for Object Detection

Message from the Guest Editors

Object detection is a fundamental but challenging problem in the field of remote sensing. With different types of data sources, such as UAVs, airplanes, satellites, spacecraft, etc., it has a wide range of applications, such as environmental monitoring, dynamic object monitoring, etc. This Special Issue aims to bring together researchers from academia, industry, and government agencies to understand the innovative technologies in the field of object detection in remote sensing. Submitted papers are expected to employ state-of-the-art and novel approaches to cover solutions for object detection related, but not limited, to the following topics:

- Innovative theories and approaches for object detection and its applications using remote sensing data such as optical images, laser, SAR data, etc.;
- Object detection methods and applications using remote sensing data captured using UAVs, airplanes, satellites, spacecraft, etc.;
- Fusion of multi-sensor data for object detection;
- Imbalance problem (classes, scales, spatial, and objectives) solutions;
- Transfer learning, and deep reinforcement learning for object detection using remote sensing data.

Guest Editors

Dr. Yexin Wang

State Key Laboratory of Remote Sensing Science, Aerospace Information Research Institute, Chinese Academy of Sciences, Beijing 100101, China

Dr. Yi Cui

Institute of Optics and Electronics, Chinese Academy of Sciences, Chengdu 610209, China

Deadline for manuscript submissions

closed (25 March 2026)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/181190

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

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





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)