

## Special Issue

# Sensors for Space Situational Awareness and Object Tracking

### Message from the Guest Editor

Space situational awareness (SSA)—to detect, track, identify, and characterise resident space objects (RSOs)—has been recognised in the research community as one of the top priorities for space activities in Canada. Damage to space systems has a significant and immediate impact on the technologies we all rely on daily, including navigation, communication, resource management, climate monitoring, and severe weather forecasting. As such, it is imperative to enhance the technologies and further develop the capabilities that identify both active satellites and debris. To meet the growing demand for SSA missions, several sensor technologies have been proposed to be suitable for both ground-based and space-based object imaging including SWIR, neuromorphic cameras, wide FOV cameras, and more. This Special Issue is dedicated to featuring innovative and cutting-edge sensor technologies for SSA applications. Potential topics include but are not limited to:

- space situational awareness
- object tracking
- RSO detection

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### Guest Editor

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### Deadline for manuscript submissions

31 December 2025



## Sensors

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### 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.

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