

## Special Issue

# Advanced Technologies Applied for Object Detection and Tracking

### Message from the Guest Editors

The availability of low-cost cameras and the ubiquitous deployment of cameras for safety and security, revolutionary development of machine learning algorithms, and advanced small computing devices drive forward the use of visual data for solving various research problems using object detection and tracking. To utilize object detection and tracking methods to support research, dynamic and real-time visual data processing is required. To achieve dynamic and real-time data processing while heavy and high-volume data are published, advanced technologies for offloading through the computing continuum are used, which consist of diverse computing layers such as edge, fog, cloud, and other kind of computing systems. Submissions can address, but are not limited to, the following topics:

- Advanced Deep Learning Architectures for Object Detection and Tracking;
- Multi-Sensor Fusion for Object Detection and Tracking;
- Object Detection and Tracking in Video Surveillance with Cloud and Edge Computing Support;
- Real-Time Object Detection and Tracking for Autonomous Vehicles;
- Case Studies of Object Detection and Tracking in Smart Cities.

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### Guest Editors

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### Deadline for manuscript submissions

20 November 2025



## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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