

## Special Issue

# Advances in Machine Learning for Anomaly Detection

### Message from the Guest Editor

This Special Issue aims to address modern challenges that anomaly detection algorithms face in emerging applications such as interaction-based complex anomalies in graph data (e.g., video, social media), the high-dimensionality of data (e.g., time series, video), and real-time detection requirements (e.g., autonomous driving, cyberattack detection). We encourage the submission of research articles contributing new methods/datasets, as well as survey articles reviewing the literature, to this Special Issue. Topics of interest include, but are not limited to, the following:

- Detecting interaction-based complex anomalies in non-Euclidean data such as social networks, video, etc.
- Anomaly detection in high-dimensional time series data.
- Anomaly detection for autonomous vehicles.
- Intrusion detection for emerging cyberattacks.
- Adversarial machine learning attacks against anomaly detection algorithms.
- Defenses to protect anomaly detection algorithms from adversarial machine learning attacks.
- Detection of adversarial machine learning attacks against artificial intelligence (AI) models such as large language models (LLMs) and vision-language models (VLMs).

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### Guest Editor

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### Deadline for manuscript submissions

30 November 2025



## Sensors

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### Message from the Editor-in-Chief

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