

Special Issue

Machine Learning for Anomaly Detection

Message from the Guest Editor

As digital systems grow increasingly complex and interconnected, generating vast volumes of high-dimensional data streams, the ability to identify unusual or malicious activities has become of paramount importance for the purposes of security, reliability, and operational integrity. Traditional anomaly detection methods, often reliant on predefined rules or static thresholds, struggle to keep pace with the dynamic nature of modern threats and the sheer scale and complexity of contemporary data environments. These limitations expose critical infrastructure, financial systems, healthcare networks, and industrial processes to significant and evolving risks. In this context, machine learning (ML) has emerged as a transformative tool for anomaly detection, offering the potential to learn intricate patterns from data, adapt to new behaviors, and uncover subtle, previously unknown threats with unprecedented accuracy and efficiency.

Guest Editor

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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