Special Issue

Statistical Monitoring and AI Models

Message from the Guest Editors

This Special Issue aims to encourage research that explores innovative techniques and applications across a wide range of statistical monitoring contexts. We are particularly interested in studies that are focused on the monitoring of AI models, which encompasses evaluating their performance, assessing their trustworthiness, and ensuring their reliability. Furthermore, we invite submissions that investigate the application of AI in critical areas such as health monitoring, process monitoring, and other relevant fields. Key topics of interest include:

- Machine Learning: Techniques that enable systems to learn from data.
- Deep Learning: Advanced algorithms that mimic the human brain to analyze data patterns.
- Large Language Models: Powerful AI tools that process and generate human-like text.
- Statistical Process Monitoring: Methods for tracking the performance of processes in various industries.
- Anomaly Detection: Techniques for identifying irregular patterns or outliers in data.
- AI Trustworthiness: Assessing the ethical implications and reliability of AI systems.
- AI Reliability: Ensuring consistent and dependable performance in AI applications.

Guest Editors

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About the Journal

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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