Special Issue

Statistical Monitoring and Al 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.
- Al Trustworthiness: Assessing the ethical implications and reliability of Al systems.
- Al Reliability: Ensuring consistent and dependable performance in Al applications.

Guest Editors

Dr. Achraf Cohen

Department of Mathematics and Statistics, University of West Florida, FL 32514, USA

Prof. Dr. Yichuan Zhao

Department of Mathematics and Statistics, Georgia State University, Atlanta, GA 30303, USA

Deadline for manuscript submissions

30 April 2026



Mathematics

an Open Access Journal by MDPI

Impact Factor 2.2 CiteScore 4.6



mdpi.com/si/164903

Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

mdpi.com/journal/mathematics





Mathematics

an Open Access Journal by MDPI

Impact Factor 2.2 CiteScore 4.6



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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

