Special Issue

Statistics and Probabilities and Their Role Within Health Sciences

Message from the Guest Editor

Statistics is the branch of mathematics that deals with data collection, analysis, interpretation, and presentation. It plays a crucial role in the health sciences by quantifying and assessing the effectiveness of medical treatments, identifying health trends, and evaluating the risk factors associated with different diseases. On the other hand, probability is the branch of mathematics that studies random events. It plays a critical role in the health sciences by enabling scientists to develop models to predict the likelihood of certain outcomes, such as the probability of a particular disease occurring in a given population. Statistics and probability form the basis of evidence-based medicine, using scientific evidence to guide medical decision making.

- Probability Theory;
- Categorical data analysis,
- Biostatistics;
- Parametric and nonparametric methods;
- Time series and survival data analysis;
- Probabilistic and statistical models;
- Bayesian methods;
- Environmental statistics;
- Epidemiological methods.

Guest Editor

Dr. Oluwagbohunmi A. Awosoga

Faculty of Health Sciences, University of Lethbridge, Lethbridge, AB, Canada

Deadline for manuscript submissions

closed (10 April 2025)

MDPI

Σ

Mathematics

mdpi.com/journal/ mathematics

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).