mathematics

an Open Access Journal by MDPI

IMPACT FACTOR 2.4

CITESCORE 3.5

Advances in Computational Statistics, Causal Inference and Data Science—Interface and Applications—Theory and Applications

Guest Editors:

Prof. Dr. Irene Hudson
STEM, School of Science, RMIT University, Melbourne, VIC 3001, Australia

Prof. Dr. Eric J. Beh
National Institute for Applied Statistics Research Australia (NIASRA), University of Wollongong, Wollongong, NSW, Australia

Dr. Sharon Lee
School of Mathematics and Physics, University of Queensland, Queensland, QLD 4072, Australia

Deadline for manuscript submissions:
31 August 2024

Message from the Guest Editors

This leading Special Issue promotes and stimulates research at the interface of computational statistics, causal inference and data science.

A wide range of theoretical and practical applications are welcome, including, but not limited to, the following topics:

- Connections between classical statistical methods and machine learning, deep learning models.
- Causal inference and data science interface with applications in observational studies, RCTs, surveys and digital health, ecology, climate research and precision medicine.
- Modelling causality and explainability in digital health and large data problems.
- Visualization via directed acyclic graphs (DAGs), multiple correspondence analysis (MCA).
- Explainability versus causality in clinical care, precision medicine, public and global health, digital health, RCTs, survey research, and precision medicine.
- Data-driven causal analysis of time series.
- Novel frameworks to strengthen use of DL with causal inference and vice versa with applications for stochastic processes (COVID-19, diseases) and big data (electronic health records (ehRs), etc.).

mdpi.com/si/148051

Special Issue

mathematics

IMPACT FACTOR 2.4

CITESCORE 3.5

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.
Journal Rank: JCR - Q1 (*Mathematics*) / CiteScore - Q1 (*General Mathematics*)

Contact Us

Mathematics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/mathematics
mathematics@mdpi.com
𝕏@MathematicsMDPI