Special Issue

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

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.).

Guest Editors

Prof. Dr. Irene Hudson

Prof. Dr. Eric J. Beh

Dr. Sharon X. Lee

Deadline for manuscript submissions

closed (31 March 2025)

MDPI

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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