

# Special Issue

## Survey Statistics and Survey Sampling: Challenges and Opportunities

### Message from the Guest Editor

Survey sampling is a primary technique to generate official statistics. Statisticians attempt to collect samples that are representative of the population in question. However, nonresponse is inevitable. Statistical models, such as those for nonresponse adjustment and for small area estimation, are important components of survey statistics. As a result, the overlap between survey sampling and other areas of statistics has increased, and the mutual dependence makes it important that survey sampling be an integral part of statistics. The recent increase in data collection costs and nonresponse rates challenges the application of probability sample surveys. Necessary precautions are taken to reduce sampling and measurement errors. The Special Issue aims to publish scientific advances in the field of survey statistics, survey sampling theory and methods. Potential topics include, but are not limited to, the following:

- Probability sampling methods;
- Non-probability sampling methods;
- Nonresponse bias adjustment;
- The use of administrative data;
- Combining multiple data sources;
- Small area estimation;
- Missing data methods;
- Bayesian survey estimation;
- Respondent-drive sampling.

### Guest Editor

Dr. Yajuan Si

Survey Research Center, Institute for Social Research & Department of Biostatistics, School of Public Health, University of Michigan-Ann Arbor, Ann Arbor, MI 48104, USA

### Deadline for manuscript submissions

closed (31 May 2024)



# Mathematics

an Open Access Journal  
by MDPI

Impact Factor 2.2  
CiteScore 4.6



[mdpi.com/si/149594](https://mdpi.com/si/149594)

*Mathematics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[mathematics@mdpi.com](mailto:mathematics@mdpi.com)

[mdpi.com/journal/  
mathematics](https://mdpi.com/journal/mathematics)





# Mathematics

---

an Open Access Journal  
by MDPI

---

**Impact Factor 2.2**  
**CiteScore 4.6**



[mdpi.com/journal/  
mathematics](https://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).