

Special Issue

Recent Advances and Applications of Mathematical and Reliability Models

Message from the Guest Editors

The recent developments in mathematics and computer science have largely led to benefits in many industrial tasks in different fields. In order to solve various problems in the current industry, it is necessary to understand the phenomenon and abstract the laws that govern it through mathematical modeling, and in this process, reliability must be improved using mathematical and reliability models. This Special Issue invites high-quality and original research on mathematical and reliability models from a variety of recently accessible fields to solve practical challenges in related fields. The topics of interest include, but are not limited to, the following:

- Applied computing;
- Applied mathematics;
- Machine learning;
- Neural networks;
- Deep learning;
- Bayesian method;
- Computational methods;
- Censoring;
- Statistical methods in reliability;
- Reliability modeling and optimization;
- Applied mathematics in reliability;
- Mathematical modeling in engineering
- Field data analysis.

Guest Editors

Dr. Kwang-yoon Song

Department of Computer Science and Statistics, Chosun University,
309 Pilmun-daero, Dong-gu, Gwangju 61452, Republic of Korea

Prof. Dr. Kyeongjun Lee

Department of Mathematics and Big Data Science, Kumoh National
Institute of Technology, Gumi 39177, Republic of Korea

Deadline for manuscript submissions

closed (31 August 2024)



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/185369

Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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).