Special Issue

Mathematical Modeling for Parallel and Distributed Processing, 2nd Edition

Message from the Guest Editors

The main objective of this Special Issue is to showcase innovative research that combines parallel and distributed computing with powerful and smart mathematical methods. We welcome submissions that present the latest developments in distributed optimization, algorithm design, and mathematical modeling, as well as their applications in big data processing, data usability, energy, transportation, aerospace, and 5G/6G. By highlighting the latest advances in these fields, we aim to generate new ideas and foster collaborations that can address the current challenges and drive further progress in parallel and distributed computing. Keywords

- algebraic digital techniques
- distributed computing
- parallel processing
- algorithm design
- mathematical modeling
- optimization

Guest Editors

Dr. Tian-Yi Li

Dr. Yushuai Li

Dr. Peiyuan Guan

Dr. Lingxiao Yang

Prof. Dr. Lu Chen

Deadline for manuscript submissions

closed (15 September 2025)

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).