

Special Issue

Application of Mathematical Modeling in Operations Research

Message from the Guest Editor

Dear colleague, Scheduling theory is a fundamental branch of operations research (OR). Many concepts of computer science (CS) are used extensively in OR, including computational complexity, NP-hardness, dynamic programming (DP), and fixed-parameter tractable (FPT) algorithms. Several well-known scheduling algorithms are considered unfeasible, mainly due to the NP-hardness nature of the underlying problems. A common approach to coping with suboptimal solutions suggests using fully polynomial-time approximation schemes (FPTAS) or metaheuristics (e.g., simulated annealing, genetic algorithms), achieving faster running times while compromising on an optimal result.

Guest Editor

Dr. Baruch Mor

Department of Economics and Business Administration, Ariel University, Ariel 40700, Israel

Deadline for manuscript submissions

closed (30 November 2023)



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/161822

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 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).