



Application of Mathematical Modeling in Operations Research

Guest Editor:

Dr. Baruch Mor

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

Deadline for manuscript
submissions:

closed (30 November 2023)

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.

Dr. Baruch Mor

Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and
Informatics, De Montfort
University, The Gateway,
Leicester LE1 9BH, UK

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

Journal Rank: JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Contact Us

Mathematics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/mathematics
mathematics@mdpi.com
[X@MathematicsMDPI](https://twitter.com/MathematicsMDPI)