

# Special Issue

## Mathematical Models and Methods of Scheduling Theory

### Message from the Guest Editor

Dear colleagues, Scheduling theory is an important topic within the wide area of combinatorial optimization and operation management that examines questions on developing optimal schedules for performing finite or repetitive sets of operations. Mathematical aspects of scheduling tackle the perennial problem of optimal utilization of finite resources in accomplishing an assortment of tasks or objectives. While some of the problems have polynomial time solutions, the vast majority of the problems are NP-hard. Hence, this Special Issue strives to publish original papers on mathematical models of scheduling theory, which describe new methods for overcoming current problems and weaknesses. Submitted studies should present mathematical exact or approximate solutions to core problems or to introduce and analyze efficient heuristics. The Special Issue aims to exhibit innovative articles reflecting the latest developments and findings of mathematical models and methods of scheduling theory. Therefore, we are eager to display pioneering and original techniques and approaches to improve current practices.

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### Guest Editor

Dr. Amir Elalouf

Department of Management, Bar Ilan University, Ramat Gan, Israel

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### Deadline for manuscript submissions

closed (31 December 2024)



## Mathematics

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## 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.

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### Editor-in-Chief

Prof. Dr. Francisco Chiclana  
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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).