

Special Issue

Combinatorial Optimization Problems in Planning and Decision Making

Message from the Guest Editors

In recent years, combinatorial optimization has taken the attention of research academics and industry because of the several real-life problems that can be modelled. Several optimization methods have been proposed for solving a variety of popular planning problems including the travelling salesman problem, the vehicle routing problem, the job shop scheduling, the timetabling problem, and many more. This Special Issue will focus on recent theoretical and computational studies of combinatorial optimization, with a focus on planning and scheduling problems, as well as decision making methods for the selection of the optimal solution. Topics include, but are not limited to, the following:

- Constraint programming techniques for solving planning and scheduling problems
- Stochastic algorithms for combinatorial optimization
- Metaheuristics for combinatorial optimization
- Decision support systems for planning and scheduling
- Multi-objective combinatorial optimization
- Multi-criteria decision making in planning and scheduling

Guest Editors

Dr. Cristian Ramírez Atencia

Department of Computer Systems, Polytechnic University of Madrid, 28031 Madrid, Spain

Dr. Sara Perez-Carabaza

Department of Applied Mathematics and Computer Science, University of Cantabria, 39005 Santander, Spain

Deadline for manuscript submissions

closed (30 November 2022)



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/91500

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).