

Special Issue

Mathematical Methods of Operational Research and Data Analytics in Operations Planning and Scheduling

Message from the Guest Editors

We are pleased to present this Special Issue (SI), which aims to explore the latest advancements, methodologies, and applications of operational research and data analytics in the fields of planning and scheduling. The articles presented here underscore the importance of operational research and data analytics in addressing complex planning and scheduling challenges across various industries such as manufacturing, transportation, logistics, healthcare, to name a few. The key topics covered in this SI include, but are not limited to, the following:

- Innovative mathematical algorithms
- Machine learning and artificial intelligence
- Real-world applications and case studies
- Theoretical advancements in production and operations management

This SI offers a comprehensive perspective on the current state of operational research and data analytics applied to various problems in the area of production and operations management. By showcasing groundbreaking research and real-world applications, we aim to further the development and refinement of operational research and data analytics techniques and strategies to address complex decision-making challenges in various industries.

Guest Editors

Prof. Dr. Fazle Baki

Odette School of Business, University of Windsor, Windsor, ON N9B3P4, Canada

Prof. Dr. Ahmed Azab

Production & Operations Management Research Lab, University of Windsor, Windsor, ON N9B 3P4, Canada

Deadline for manuscript submissions

31 December 2025



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/170268

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).