Special Issue

Data-Driven Models and Algorithms for Planning, Scheduling, and Optimizing Intelligent Systems

Message from the Guest Editor

We invite researchers, practitioners, and industry experts to contribute original papers to our upcoming special issue. The increasing availability of big data, advances in machine learning, and the growing complexity of intelligent systems have created a pressing need for innovative approaches to decision-making and optimization. This special issue seeks contributions that explore novel data-driven methodologies, algorithmic frameworks, and computational techniques that enhance planning and scheduling efficiency across diverse domains, including manufacturing, logistics, energy, healthcare, and smart cities. Topics of interest include, but are not limited to: predictive and prescriptive analytics for decision support; optimization algorithms leveraging AI and machine learning; scheduling under uncertainty; multi-objective and real-time optimization; data-driven resource allocation; and hybrid models integrating simulation and optimization. Both theoretical developments and applied research are welcome. Submissions should highlight methodological advances, practical relevance, and potential impact in shaping the next generation of intelligent systems.

Guest Editor

Prof. Dr. Zubair Mohamed
Department of Management, Bowling Green State University, Bowling Green, OH 43403, USA

Deadline for manuscript submissions

31 December 2026

Mathematics

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.6

mdpi.com/si/253433

Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

mdpi.com/journal/mathematics

Mathematics

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.6

mdpi.com/journal/mathematics

MDPI

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).