Special Issue

Emerging Trends in Real-Time Optimization to Digitize Processes and Operations

Message from the Guest Editor

Real-time optimization has emerged as a critical capability for organizations seeking to enhance efficiency and responsiveness. The ability to continuously monitor and adjust operations in real-time not only minimizes waste and reduces costs but also improves customer satisfaction by enabling more timely and tailored services. Organizations that embrace these innovative practices are better positioned to respond to market fluctuations, enhance their agility, and maintain a leading edge in their respective fields.

This special issue aims to explore the latest advancements and methodologies in real-time optimization techniques that enhance the digitization of industrial processes and operations. By highlighting emerging trends and best practices, the Special Issue aspires to provide valuable insights for researchers, practitioners, and policymakers aiming to leverage real-time optimization for a more agile and responsive operational landscape. Ultimately, it seeks to foster collaboration and knowledge sharing among experts in the field, paving the way for new innovations that will drive the future of digitized operations.

Guest Editor

Prof. Dr. Jose Antonio Marmolejo-Saucedo

Facultad de Ciencias Físico Matemáticas, Universidad Autónoma de Nuevo León, San Nicolás de los Garza, Nuevo León, Mexico

Deadline for manuscript submissions

10 October 2025

Σ

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 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).

MDPI