

Special Issue

Modeling and Optimization of Production Systems

Message from the Guest Editors

Production systems play a crucial role in ensuring the efficient and effective delivery of goods and services. The optimization of these systems is essential to enhance performance, reduce waste, and increase productivity. This Special Issue focuses on the latest developments and advancements in the modeling and optimization of production systems to support decision-making and to establish and develop knowledge. The topics of interest include the mathematical modeling and simulation of production systems, optimization of production processes, lean and process improvement, supply chain management and optimization, quality control and assurance, performance measurement and evaluation, sustainable production systems, circular economy, and big data analytics and machine learning in production systems. We invite researchers, academics, and practitioners to submit their original research articles, reviews, or case studies on the topics of interest.

Guest Editors

Prof. Dr. Nuno O. Fernandes

Dr. Luís Pinto Ferreira

Dr. Ana Luísa Ferreira Andrade Ramos

Dr. Anabela Carvalho Alves

Deadline for manuscript submissions

closed (31 October 2024)



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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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Prof. Dr. Francisco Chiclana

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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).