

Special Issue

Mathematical Methods and Operations Research for Sustainable Planning, Scheduling and Supply Chain

Message from the Guest Editors

In recent decades, mathematical methods and operation research tools have been used to solve numerous industrial problems, such as supply chain design, planning or scheduling issues. Through the development of new technologies, today's industries are experiencing the fourth revolution, upon which the anticipated fifth revolution, referred to as Industry 5.0, is built upon, facilitating the integration of smart, precise and accurate machinery with human creativity and ingenuity. This Special Issue aims to present recent advances in the following areas:

- Scheduling optimization under multiple industrial constraints;
- Supply chain operations management;
- Production planning in a sustainable supply chain;
- Planning optimization under uncertainties and human aim considerations;
- Emergency/e-commerce/reverse/green/metropolitan/5.0 logistics;
- Scheduling in sustainable manufacturing;
- Optimal decisions, hybrid optimization and multi-objective optimization;
- Sustainable logistics systems design;
- The modelling and optimization of complex industrial processes;
- Digital technologies support for logistics and supply chain management adaptation.

Guest Editors

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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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Author Benefits

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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).