

Special Issue

Mathematical Methods and Operations Research in Planning, Scheduling and Supply Chain

Message from the Guest Editors

Mathematical methods and operation research tools have been useful over recent decades to solve many industrial problems, such as supply chain design, planning or scheduling issues. Through the development of new technologies, the industries of today are experiencing the fourth revolution, referred to as Industry 4.0, and are anticipating the fifth revolution, which will allow us to merge the power of smart, precise and accurate machinery with human creativity and ingenuity. This Special Issue aims to present recent advances in the following topics:

- Scheduling optimization under multiple industrial constraints;
- Supply chain operations management;
- Production planning in a sustainable supply chain;
- Planning optimization under uncertainties and human aims 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;
- Modelling and optimization of complex industrial processes;
- Digital technologies support for logistics and supply chain management adaptation.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 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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Author Benefits

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.3 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2024).