# Special Issue

# Mathematics Optimization Algorithms and Scheduling Optimization of Manufacturing Systems

## Message from the Guest Editors

Sustainable production and services can be defined as the production and use of products and services in a manner that is socially beneficial, economically viable and environmentally benign over the whole life cycle. There is, therefore, a growing commitment within the global research community to explore novel methods that reduce waste and optimize production processes to advance the development of sustainable business practices. This Special Issue will address the interactions between technology, consumption and policy to help identify more sustainable solutions for both production and service systems. This Special Issue focuses on the modelling, analysis, optimization, and control of manufacturing and service systems with sustainable concerns. The advancement of new information technologies, such as the Internet of Things, big data, cloud and edge computing, 5G-enabled manufacturing, digital twins, manufacturing services, and artificial intelligence, will enable more powerful model-based and data-driven methods. We particularly welcome the submission of qualitative and quantitative results from researchers and practitioners.

## Guest Editors

Prof. Dr. Zhi Pei

Dr. Zhihai Zhang

Dr. Jian Chen

Dr. Chaobo Yan

## Deadline for manuscript submissions

30 September 2025

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# Mathematics

**an Open Access Journal by MDPI**

**Impact Factor 2.3
CiteScore 4.0**

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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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