

Special Issue

Intelligent Scheduling and Optimization in Smart Manufacturing

Message from the Guest Editor

This Special Issue aims to provide a platform for researchers and practitioners to share recent advances, innovative methodologies, and applications in intelligent scheduling and optimization. We particularly welcome contributions that leverage machine learning, meta-heuristic algorithms, optimization theory, large language models, and digital twin technologies to address challenges in complex scheduling and optimization problems arising from smart manufacturing systems. Both theoretical developments and real-world case studies are encouraged to bridge the gap between academic research and industrial practice. Topics of interest include, but are not limited to:

- Multi-objective optimization in manufacturing systems;
- Data-driven and knowledge-based scheduling methods;
- Digital twins and production scheduling for complex manufacturing systems;
- Adaptive and real-time scheduling under uncertainty;
- Scheduling and optimization for human-machine collaboration systems;
- Application of learning-based methods in smart manufacturing systems;
- Intelligent operation, maintenance, control, and scheduling in complex systems;
- Applications of meta-heuristic and evolutionary algorithms for smart manufacturing.

Guest Editor

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Deadline for manuscript submissions

20 June 2026



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/252498

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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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