

Special Issue

Soft Computing Modeling and Optimization of Intelligent Manufacturing Systems

Message from the Guest Editor

Given the rapid development of soft computing techniques and the growing need to enhance the competitiveness of the manufacturing industry, soft computing has become increasingly important in manufacturing research and practice. This Special Issue aims to highlight the benefits of soft computing in addressing key challenges in intelligent manufacturing systems, including modeling and optimization at the process, workstation, and system levels. We welcome contributions in the following areas:

- Development of novel soft computing approaches for manufacturing problems, including:
 - Metaheuristics
 - Evolutionary computing
 - Machine learning (ML)
 - Artificial intelligence (AI)
 - Generative AI (GenAI) models
- Applications of soft computing in:
 - Manufacturing process optimization
 - Workstation-level solutions
 - System-level strategies, including supply chains and manufacturing ecosystems

We invite original research and reviews demonstrating how soft computing tackles complex manufacturing issues, expands knowledge, and supports industrial implementation.

Guest Editor

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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).