

Special Issue

Complex Process Modeling and Control Based on AI Technology

Message from the Guest Editors

In recent years, with the rapid development of big data and artificial intelligence technology, how to apply these new technologies to complex systems has attracted the attention of many scholars. The aim of this Special Issue is to explore complex process modeling, optimization and control, as well as the important support for the application of advanced methods and techniques of machine learning and artificial intelligence to complex processes. This Special Issue will focus on complex process modeling and control based on AI technology and will present considerable novelty in both theoretical background and practical design. Research areas may include (but are not limited to) the following:

- Hybrid intelligent modeling techniques;
- Data-driven modelling techniques;
- Modeling and optimization of complex industrial processes;
- Online measurement, process control, and optimization for cyber-physical systems;
- Data mining and management methods for massive volumes of data;
- Machine learning applications to manufacturing automation.

Guest Editors

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Dr. Sheng Du

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Deadline for manuscript submissions

closed (20 December 2025)



Mathematics

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CiteScore 4.6



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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 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).

