

Special Issue

Modeling, Optimization and Control of Industrial Processes

Message from the Guest Editor

This Special Issue will focus on the latest research papers on how to develop and implement new modeling, optimization, and control methods in the process industry to take advantage of the new technologies mentioned above. Topics include, but are not limited to, the following: building mathematical models of complex dynamic systems and related simulation methods; developing theory with the formulation of new control systems; developing theory and control systems with artificial intelligence using neural networks, fuzzy systems, and machine learning; simulating control systems for dynamic objects on computers and in real time on test beds; and developing digital twins. Contributions of both theoretical and practical research are welcome.

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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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).