Special Issue

Applied Mathematics, Computing and Machine Learning

Message from the Guest Editor

The following Special Issue of *Mathematics* focuses on integrating advanced mathematical methods with machine learning (ML) and deep learning (DL) techniques to address challenges in supply chain management (SCM) and industrial decision-making within the context of Industry 4.0 and 5.0. We expect contributions to demonstrate how mathematics can serve as a foundation for developing data-driven models that enhance predictive performance, operational efficiency, and strategic decision-making. Topics of interest include the use of physics-informed neural networks (PINNs), mathematical modeling of nonlinear systems, the implementation of KPIs and DSSs, and the design of trustworthy architectures for real-time industrial applications. In addition, this issue welcomes works that address dependable techniques and blockchain-based frameworks and their integration with ML/DL models to improve traceability, secure data exchange, and collaborative processes in industrial environments. Authors are encouraged to submit original research or review articles that highlight innovative approaches with clear mathematical foundations and industrial relevance.

Guest Editor

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Deadline for manuscript submissions

31 January 2026

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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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