

# Special Issue

## AI-Driven Robotics in Mathematics and Intelligent System Management

### Message from the Guest Editors

We are pleased to invite you to contribute to a Special Issue on “*AI-Driven Robotics in Mathematics and Intelligent System Management*”, which will be published in *Mathematics*. This Special Issue focuses on the integration of artificial intelligence, robotics and advanced mathematical approaches for enhancing reliability, autonomy and efficiency in intelligent industrial systems. Artificial intelligence has become a cornerstone of next-generation manufacturing and system management. The convergence of AI, robotics and digital twin technologies enables intelligent maintenance, adaptive control and data-driven decision making across diverse industrial domains. However, persistent challenges—such as data imbalance, uncertainty in sensor information and the optimization of learning algorithms—continue to limit the reliability and scalability of intelligent systems. This Special Issue aims to bring together cutting-edge research that leverages mathematical modeling, statistical learning and optimization techniques to advance the development of AI-driven, resilient and self-managing systems.

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### Guest Editors

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### Deadline for manuscript submissions

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## Mathematics

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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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### Editor-in-Chief

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