

Special Issue

Computation, Modeling and Algorithms for Control Systems

Message from the Guest Editor

This Special Issue of *Mathematics* focuses on autonomous robotics systems that rely on advanced computational algorithms and control strategies to develop intelligent robots capable of identifying, planning, and executing tasks without human intervention. These systems can integrate sensing (LiDAR, cameras, IMU), real-time processing (edge computing, GPU/TPU), or decision-making (AI, SLAM, reinforcement learning) elements to operate in complex environments under the supervision of specialized control laws. Real-time computation constraints, sensor fusion, uncertainty handling, energy efficiency, and safety in human–robot interactions are some of the challenges that the articles in this Special Issue will be addressing. We look forward to hearing from authors around the world, and welcome submissions on topics including, but not limited to, the following: autonomous vehicles and drones, search and rescue robots, medical robotics, soft robotics, cooperative robots, space exploration systems, and industrial automation.

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).