



## Advances in Control Systems and Automatic Control

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Deadline for manuscript submissions:

**closed (30 June 2025)**

### Message from the Guest Editors

Dear Colleagues,

Advances in digital processing hardware have resulted in faster sampling rates and provided the opportunity for control schemes with ever-increasing complexity to be developed. The use of control systems and automation has drastically increased over the past few years, setting a trend that is likely to continue into the future.

The purpose of this Special Issue is to give subject matter specialists a forum to work on an innovative control strategy. It will cover every facet of control engineering, including system identification, design, implementation, and analysis, for real-world control systems. Applications in mechatronic systems, robotics, automated manufacturing, power, aerospace, automotive, and electronic systems, among others, may be included in this Special Issue. Topics might include but are not limited to:

- Nonlinear, adaptive, and robust control;
- Current trends in PID;
- Vibration control;
- Fault detection;
- Machine learning in control systems;
- Model-based control;
- Model predictive control (MPC);
- System identification;
- Fuzzy control.





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## 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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