

Special Issue

Advances in Intelligent and Optimal Control: Theory and Applications

Message from the Guest Editor

This Special Issue, entitled “Advances in Intelligent and Optimal Control: Theory and Applications”, aims to present recent theoretical, computational, and applied developments in intelligent control and optimization.

With the increasing complexity of modern systems and the growing demand for autonomy, precision, robustness, and efficiency, advanced control and optimization approaches have become essential in both research and real-world applications. We invite original research articles, review papers, and case studies on topics including, but not limited to:

- Intelligent and adaptive control methods;
- Optimization-based controller design and tuning;
- Predictive, robust, and nonlinear control;
- Data-driven and learning-based control approaches;
- Dynamic systems modeling and control;
- Robotics and autonomous systems;
- Mechatronic systems and motion control.
- Multi-objective optimization in control applications;
- Modeling, simulation, and digital twin-assisted control;
- Fault diagnosis, fault-tolerant control, and system monitoring;
- Real-time optimization and decision-making for complex systems.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).