

Special Issue

Quantum Machine Learning for Next-Generation Robot Control

Message from the Guest Editors

This Special Issue aims to highlight the latest advances and research in machine learning and quantum machine learning for next-generation robot control. We invite contributions that advance current knowledge and explore, among others, the following topics:

- Optimization algorithms for improving robotic control performance;
- Methods for reducing robot training time;
- Approaches for managing dynamic and unpredictable environments;
- Techniques for minimizing computational resource consumption in robot control;
- Solutions for handling failures or extreme situations that pose safety risks;
- Strategies enabling fast adaptation to new environmental conditions;
- Simulation and modeling tools that support the development of advanced control systems;
- Methodologies for achieving real-time performance with low-latency decision-making.

Guest Editors

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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.

Editor-in-Chief

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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).

