Special Issue

Machine Learning and Cognitive Robotics

Message from the Guest Editors

The focus of this Special Issue explores the intersection of Machine Learning (ML) and Cognitive Robotics, highlighting advancements in intelligent systems capable of perception, reasoning, learning, and interaction with humans and dynamic environments.

The focus is on cutting-edge algorithms, cognitive architectures, and real-world applications that bridge AI and robotics. We invite contributions addressing (but not limited) to ML for Robotics (deep learning, reinforcement learning, and transfer learning in robotic control and decision-making), Cognitive Architectures (bio-inspired models, neuromorphic computing, and hybrid AI systems for autonomous robots), Human–Robot Interaction (HRI) (NLP, emotion recognition, and collaborative robotics), Ethics and Trust (explainable AI (XAI), safety, and fairness in cognitive robotic systems), Applications (healthcare robots, industrial automation, autonomous vehicles, and assistive technologies), etc.

The purpose of the Special Issue is to showcase innovations integrating ML with cognitive robotics, fostering dialogue between researchers in AI, robotics, and cognitive science, as well as identifying challenges and future directions.

Guest Editors

Prof. Dr. Miloš D. Jovanović

Dr. Jelena Vasiljevic

Dr. Calin-Octavian Miclosina

Deadline for manuscript submissions

15 March 2026

Electronics

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 16.8 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).