

## Special Issue

# Artificial Intelligence/Machine Learning in Cyber-Physical Systems Design

### Message from the Guest Editors

In the realm of Cyber-Physical Systems (CPS), the integration of Artificial Intelligence (AI) and Machine Learning (ML) techniques has emerged as a transformative force. The scope of this Special Issue includes, but is not limited to, the following: (1) AI-driven optimization techniques for CPS design and operation (2) ML-based predictive modeling for fault detection and diagnosis in CPS (3) Reinforcement learning approaches for autonomous control and decision-making in dynamic CPS environments (4) Integration of AI/ML algorithms with Internet of Things (IoT) devices for enhanced sensing and actuation capabilities in CPS (5) Implementation of AI/ML in power systems for improved control and performance, and resiliency improvements (6) Ethical and societal implications of deploying AI/ML in CPS (7) Case studies and practical applications showcasing the real-world impact of AI/ML integration in diverse CPS domains

### Guest Editors

Dr. Imtiaz Parvez

Dr. Anjan Debnath

Dr. M. Al Mamun

### Deadline for manuscript submissions

closed (15 June 2025)



## Electronics

an Open Access Journal  
by MDPI

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/204442](https://mdpi.com/si/204442)

*Electronics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[electronics@mdpi.com](mailto:electronics@mdpi.com)

[mdpi.com/journal/  
electronics](https://mdpi.com/journal/electronics)





# Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/journal/  
electronics](https://mdpi.com/journal/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 guest-edited by leading experts in selected topics of interest.

---

### Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di  
Torino, 10129 Torino, Italy

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPus /  
SciFinder, Inspec, Ei Compendex and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /  
CiteScore - Q1 (Electrical and Electronic Engineering)

#### Rapid Publication:

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).