

## Special Issue

# Cyber-Physical Systems in Industrial IoT

### Message from the Guest Editors

In general, a commonly accepted definition of cyber-physical systems (CPSs) refers to systems where software and hardware components are seamlessly integrated toward performing well-defined tasks. CPSs are one of the core technologies of Industry 4.0. The integration of CPSs is essential in Industry 4.0 functioning. With CPSs, machines are able to communicate with each other, and decentralized control systems are able to optimize production. The integration of CPSs is leading to complexities emerging from the interactions among cyber systems and the uncertain dynamic behavior of physical systems. This Special Issue will focus on (but is not limited to) the following topics: - New computing architecture for CPSs in industrial IoT; - New communication mechanisms for CPSs in industrial IoT; - Advanced AI/ML models for CPSs in industrial IoT; - Advanced networking among CPSs for industrial IoT; - Applications of CPSs in industrial IoT.

### Guest Editors

Prof. Dr. Li Da Xu

Department of Information Technology, Old Dominion University,  
Norfolk, VA 23529, USA

Dr. Shancang Li

Department of Computer Science and Creative Technologies,  
University of the West of England, Bristol BS16 1QY, UK

### Deadline for manuscript submissions

closed (15 October 2024)



## Electronics

an Open Access Journal  
by MDPI

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/169372](https://mdpi.com/si/169372)

*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), CAPlus /  
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).