

Special Issue

Digital Twin Technologies for Industrial Monitoring and Control Systems

Message from the Guest Editor

Digital Twin (DT) technologies are revolutionizing industrial ecosystems by creating dynamic, real-time virtual replicas of physical systems, enabling unprecedented precision in monitoring, control, and decision-making. As industries embrace Industry 4.0 and smart manufacturing, DTs bridge the gap between physical and digital realms, potentially enhancing predictive maintenance, operations, and sustainable practices. This Special Issue seeks to explore the advancements, challenges, and applications associated with DT technologies tailored to industrial environments, fostering innovation in automation, efficiency, and resilience. Topics of Interest

- Modeling and Fidelity
- Real-Time Data Integration
- AI/ML Applications
- Cybersecurity
- Edge/Cloud Computing
- Interoperability
- Human-Machine Interaction
- Sustainability
- Case Studies

Guest Editor

Prof. Dr. Jin Huang

School of Mechano-Electronic Engineering, Xidian University, Xi'an 710071, China

Deadline for manuscript submissions

15 March 2026



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/240509

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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).