

Special Issue

Secure and Intelligent IoT & CPS: AI Driven Attack–Defense, Network Analysis and Smart Data Protection

Message from the Guest Editors

This Special Issue invites original research, short communications, and reviews on optimization and machine-learning techniques safeguard IoT/CPS environments, improve real-time decision-making, and enhance system intelligence. Topics of interest:

- **Secure & Intelligent IoT/CPS Networks:** Optimization of wireless protocols (5G/6G, TSN) and cross-layer architectures for high-reliability, low-latency IoT/CPS communication.
- **AI-Driven Autonomy & Control:** Machine learning techniques for autonomous/adaptive control of CPS components (robots, drones, vehicles) and network intrusion detection/resilience.
- **Smart Data Protection & Privacy:** Technologies for large-scale data integrity/confidentiality (federated learning, differential privacy, cryptography, blockchain, digital twin resilience) against expanded threats.
- **Intelligent Sensing & Vision:** Advanced AI for real-time defect detection, object recognition, anomaly sensing in smart environments; edge computing/private networks for low-latency processing.
- **LLMs for CPS:** Development/application of CPS-tailored large language models (predictive analytics, process optimization, cross-domain learning) with focus on efficient training/deployment.

Guest Editors

Dr. Hansong Xu

Dr. Cheng Qian

Dr. Hengshuo Liang

Deadline for manuscript submissions

15 July 2026



Electronics

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Impact Factor 2.6
CiteScore 6.1



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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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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

Prof. Dr. Flavio Canavero

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

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