



## AI in Blockchain Assisted Cyber-Physical Systems

Guest Editors:

**Prof. Dr. Ning Xi**

School of Cyber Engineering,  
Xidian University, Xi'an 710071,  
China

**Dr. Dawei Wei**

School of Cyber Engineering,  
Xidian University, Xi'an 710071,  
China

**Dr. Yuanyu Zhang**

School of Computer Science and  
Technology, Xidian University,  
Xi'an 710071, China

Deadline for manuscript  
submissions:

**31 October 2024**

### Message from the Guest Editors

Cyber-physical systems (CPSs) are providing a new paradigm for industrial manufacturing, city management, transportation, entertainment, and so on. With the expansion of CPS scale, the distributed network architecture is being widely applied rather than the original centralized network due to its autonomy and reliability. The emergence of blockchain helps CPSs execute in a decentralized, secure, and trusted manner. However, how to efficiently and automatically manage the blockchain-assisted CPS has become a problem. Artificial intelligence (AI) has demonstrated the ability to make intelligent decisions in multiple fields. It is becoming a hot topic to integrate AI into blockchain-assisted CPSs. This Special Issue solicits innovative research on the integration of AI and blockchain-assisted CPSs, including but not limited to:

1. AI-enhanced architecture for blockchain-assisted CPSs
2. The integration of federated AI and blockchain-assisted CPSs
3. The security and privacy of AI in blockchain-assisted CPSs
4. AI-enhanced consensus protocols for blockchain-assisted CPSs
5. The AI-assisted verification of smart contracts
6. Application cases in typical CPSs such as IIoT and UAVs





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Flavio Canavero**

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

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

## Contact Us

---

Electronics Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[X@electronicsMDPI](https://twitter.com/electronicsMDPI)