

## Special Issue

# Cyber-Physical Systems Applications and Security

### Message from the Guest Editors

Cyber-physical systems (CPS) is now changing the way we interact with these critical systems, which is similar to the way in which the Internet has changed how people interact. CPS has found various applications, e.g., in power grids, transportation systems, manufacturing systems, and so on. Meanwhile, we have witnessed the significant success of many advanced techniques, such as artificial intelligence, optimization, smart sensing, intelligent control, etc., in various domains and complex systems. These techniques or methodologies also perfectly match the features of CPS, i.e., complex or large systems, which involve handling a huge amount of data, making critical decisions and achieving reliable performance. Due to its cyber component, CPS is vulnerable to cyber attacks, exposing the critical systems to great threat, as the service disruption can lead to significant social and economic impacts. Therefore, we should also apply advanced techniques to address the security problems in CPS whilst developing new applications. This Special Issue will focus on integrating different advanced techniques into CPS to meet its various requirements, challenges and security threats.

---

### Guest Editors

Dr. Xin Lou

Dr. Chuadhry Mujeeb Ahmed

Dr. Mohammad Ashiqur Rahman

Prof. Dr. Sidi Mohammed Senouci

Dr. Nuno Pereira

---

### Deadline for manuscript submissions

closed (30 November 2023)



## Network

---

an Open Access Journal  
by MDPI

---

Indexed in Scopus  
Tracked for Impact Factor



[mdpi.com/si/156405](https://mdpi.com/si/156405)

*Network*

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

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





# Network

---

an Open Access Journal  
by MDPI

---

Indexed in Scopus  
Tracked for Impact Factor



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



## About the Journal

### Message from the Editor-in-Chief

*Network* provides full coverage of all topics of interest involved in the networking area. The purpose of this journal is to bring together researchers, engineers, and students from academia and industry to present novel ideas and solid research about the theoretical and practical aspects in the application domains of communications and networks. The primary focus of the journal is on the analysis, modeling, design, simulation, and implementation of networks. This journal will also serve to attract research concerning applying networking architectures and scenarios to emerging research topics such as Internet of Things (IoT), edge computing, distributed ledger technology, among others.

---

### Editor-in-Chief

Prof. Dr. Alexey Vinel

School of Information Technology, Halmstad University, 301 18  
Halmstad, Sweden

---

### Author Benefits

#### Open Access:

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

#### High Visibility:

indexed within ESCI (Web of Science), Scopus, EBSCO, and other databases.

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 26.5 days after submission; acceptance to publication is undertaken in 5.7 days (median values for papers published in this journal in the first half of 2024).