# Special Issue

# Security and Reliability Assessment for Blockchain

### Message from the Guest Editors

Blockchain technology has emerged as a transformative force, playing a crucial role in the development and deployment of emerging technologies such as Decentralized Finance (DeFi), Decentralized Applications (DApps), Decentralized Identifiers (DIDs), Federated Learning (FL), the Metaverse, Web 3.0, and many others. Despite its advantages, blockchain systems still face significant challenges related to security, reliability, and scalability. Furthermore, with the continued growth of blockchain adoption, it is becoming increasingly vital to enhance the security and resilience of these application scenarios to protect against potential attacks and privacy breaches. This Special Issue aims to address these challenges by providing a platform for researchers and practitioners to present cutting-edge solutions, methodologies, and frameworks for assessing, improving, and ensuring the security and reliability of blockchain-based systems.

### Guest Editors

Dr. Sheng Cao

School of Computer Science and Engineering, University of Electronic Science and Technology of China, Chengdu 611731, China

Prof. Dr. Liming Fang

College of Computer Science and Technology, Nanjing University of Aeronautics and Astronautics, Nanjing 211106, China

### Deadline for manuscript submissions

20 October 2025

**Applied Sciences**

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/234953

*Applied Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci

# Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

# About the Journal

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

## 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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:**

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )