



## Frontiers in Network Security and Cryptography

Guest Editors:

**Prof. Dr. Ding Wang**

Department of Cryptography and  
Technology, Nankai University,  
Tianjin 300071, China

**Prof. Dr. Qi Jiang**

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

**Dr. Chunhua Su**

Department of Computer Science  
and Engineering, Division of  
Computer Science, The  
University of Aizu,  
Aizuwakamatsu 965-8580, Japan

Deadline for manuscript  
submissions:

**closed (31 January 2024)**

### Message from the Guest Editors

Dear Colleagues,

Network security is a multidisciplinary area in computer science and engineering, while cryptography—which evolved from applied mathematics—constitutes the core technology to ensure network security. To protect information systems against potential attacks, network security and cryptography mainly focus on the development and implementation of security mechanisms.

With the developments of computing and communication technologies, new security challenges emerge constantly. To address such new threats, cryptography algorithms and technologies need to be enriched with new elements and developments in mathematics such as number theory and graph theory. In the meantime, new security countermeasures can be proposed on the basis of advancements in cryptography.

This Special Issue is dedicated to exploring the theories and the recent trends in the development of network security as well as the application of cryptography to counter security and privacy problems. We are soliciting contributions (research articles) covering a broad range of topics on frontiers in network security and cryptography.





## Editor-in-Chief

### **Prof. Dr. Francisco Chiclana**

School of Computer Science and  
Informatics, De Montfort  
University, The Gateway,  
Leicester LE1 9BH, UK

## Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

## 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), RePEc, and other databases.

**Journal Rank:** JCR - Q1 (*Mathematics*) / CiteScore - Q1 (*General Mathematics*)

## Contact Us

---

*Mathematics* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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

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