



## Advanced Deep Learning and Mathematical Modeling for Reliability, Security and Privacy Problems in Engineering: 2nd Edition

Guest Editors:

**Prof. Dr. Zibin Zheng**

**Dr. Ruoxi Jia**

**Dr. Dan Li**

**Dr. Yuxun Zhou**

**Prof. Dr. Liang Xu**

Deadline for manuscript  
submissions:

**closed (30 September 2024)**

### Message from the Guest Editors

This Special Issue will focus on (but is not limited to) the following topics:

- Mathematical modeling for reliability, security and privacy problems;
- Innovative applications (healthcare, education, media, insurance, Internet of Things, smart city, industry, etc.) about risk management and reliability issues;
- Data quality and sparse learning;
- Mathematical solutions for representation learning;
- Mathematical optimization techniques and its application for quality management;
- Reliability, security and privacy analysis and requirements in engineering;
- Vulnerabilities and risk assessment in networked systems;
- Advanced threat models, cyber-crime or cyber-espionage;
- Reliable, secure and private architectures by design;
- Secure interoperability, mobility and coexistence between systems, including users;
- Prevention, awareness and resilience models for advanced threats;
- Data preservation and privacy models;
- Trust management and trusted computing models;
- Privacy issues and mitigation techniques;
- .....





an Open Access Journal by MDPI

## 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, Grosspeteranlage 5  
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)