



## Advances in Mathematical Cryptography and Information Security toward Industry 5.0

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Deadline for manuscript submissions:

**closed (1 July 2025)**

### Message from the Guest Editors

This Special Issue calls for original contributions to designing and developing advanced mathematical cryptographic schemes for information security toward Industry 5.0. The topics include but are not limited to:

- Advanced mathematical cryptography in the Industry 5.0 era.
- Information security in Industry 5.0.
- Sustainable cryptographic models for secured systems.
- Secured digital twins enabling smart systems.
- Novel security architectures for smart systems.
- Lightweight authentication schemes based on extended Chebyshev chaotic maps.
- Machine learning-aided design and development of cryptographic schemes for information security.
- Blockchain technology-enabled design of novel cryptographic schemes and information security.
- Challenges for designing and developing advanced cryptographic schemes for information security toward Industry 5.0.
- Experimentation and deployment of advanced cryptographic schemes for information security.
- Case studies and recommendations for advanced cryptographic schemes for information security.





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## 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.

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