Special Issue

Innovations in Information Privacy for Network Security: Overcoming Challenges in a Digital Age

Message from the Guest Editor

The rapid evolution of digital technologies has redefined the scope of information privacy and network security, making them central to global stability, economic resilience, and individual rights. This issue explores emerging innovations designed to safeguard sensitive information in an era characterized by pervasive connectivity, artificial intelligence (AI), and quantum computing. Traditional methods of encryption and access control are increasingly inadequate against sophisticated adversaries employing machine learning-driven attacks, advanced persistent threats, and quantum-enabled cryptanalysis. To address these challenges, researchers and practitioners are developing cutting-edge solutions. Keywords

- Information Privacy
- Network Security
- Artificial Intelligence (AI)
- Quantum Computing
- Post-Quantum Cryptography
- Differential Privacy
- Homomorphic Encryption
- Federated Learning
- Blockchain for Security
- Privacy-Preserving Technologies
- Cybersecurity Innovation
- Critical Infrastructure Protection

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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.

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