



Recent Progress of Information Security and Cryptography

Guest Editor:

Prof. Dr. Juan Antonio López Ramos

Department of Mathematics,
University of Almería, 04120
Almería, Spain

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Message from the Guest Editor

Recent advances in quantum computing has led to the consideration of alternatives for most techniques and cryptographic algorithms used in cybersecurity and, particularly, in information security; this is largely due to the application of quantum techniques, based mainly on Shor's factorization algorithm which challenges the standards of public key cryptosystems and digital signatures. However, many other cryptographic techniques are used in different ambits, such as confidential group communications, distributed computing, blockchain, or steganography, which could adapt to new security requirements.

The aim of this Special Issue is to explore the recent solutions in the community that can overcome menace-derived attacks based on quantum computing. These emerging methods can be derived from chaos theory, fractal geometry, metaheuristic methods, genetic algorithms, artificial intelligence, or new algebraic applications such as those related to problems that appear to be quantum-resistant, such as those recommended by NIST, including hash-based cryptography, code-based cryptography, and lattice-based cryptography.





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Editor-in-Chief

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

Message from the Editor-in-Chief

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Applied Sciences Editorial Office
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