

Special Issue

Mathematical Cryptography and Its Application on Authentication and Verification

Message from the Guest Editors

The proliferation of edge computing with artificial intelligence (AI) applications has become a driving force in the emergence of a new generation of Social Internet of Things (SIoT) communication. In addition, the advent of 6G wireless technology is expected to be transformative, revolutionizing the evolution of wireless communication from connected things to connected intelligence. Further, the robust integration of edge, AI, IoT, and Beyond 5G (B5G) or 6G is anticipated to catalyze significant economic growth across industries. Authentication is critical in contemporary technology, especially when protecting sensitive information in an era where data breaches are becoming more regular. Robust authentication is essential for effective identity and access management and a foundational pillar of zero-trust security. However, the limitations of legacy authentication, which relies on legacy protocols such as Kerberos and RADIUS to protect the traditional network perimeter, render it inadequate to support authentication to cloud and web-based services and apps that depend on modern protocols.

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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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