Special Issue

Advances in Cryptography and Information Safety

Message from the Guest Editors

In recent years, security and privacy issues have received intensive studies in many practical applications, such as privacy-preserving authentication, payment channels, and federated learning. However, challenges remain in different aspects, e.g., scalability, efficiency, formal models, and provable security, especially in lightweight computing platforms such as the Internet of Things (IoT). Many security and privacy mechanisms are impractical for real-world applications or lack formal security analysis. This Special Issue invites submissions on the mathematical foundations of security and privacy issues in practical applications that achieve security and privacy with realistic system performance. In particular, this Special Issue will bridge gaps between the study of theoretical (and mathematical) security and privacy and issues in practical applications such as, but not limited to, large-scale systems, privacy-preserving computing, blockchain, artificial intelligence, and the IoT.

Guest Editors

Dr. Nan Li

School of Information and Physical Sciences, The University of Newcastle, Callaghan, NSW 2308, Australia

Prof. Dr. Jinguang Han

School of Cyber Science and Engineering, Southeast University, Nanjing 211102, China

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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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

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