Special Issue

Studies in Cybersecurity with Symmetry/Asymmetry

Message from the Guest Editors

Symmetry and asymmetry are fundamental concepts in cybersecurity, underpinning both attack models and defense mechanisms. Symmetric designs often enhance system efficiency and scalability, while asymmetric structures are crucial for secure authentication, access control, and anomaly detection. With the rapid advancement of artificial intelligence, new opportunities and challenges emerge in securing intelligent systems. AI-driven techniques introduce novel forms of symmetry and asymmetry in threat detection, adversarial defense, and decision-making processes. This Special Issue invites contributions that explore the interplay of symmetry/asymmetry in cybersecurity, particularly in AI-enhanced security solutions, intelligent threat analysis, and resilient system architectures.

Guest Editors

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Deadline for manuscript submissions

31 July 2026

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/246947

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About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

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