

Special Issue

Symmetry and Asymmetry in Artificial Intelligence for Cybersecurity

Message from the Guest Editor

Artificial intelligence (AI) is rapidly reshaping the cybersecurity landscape, bringing both unprecedented capabilities and emerging challenges. This Special Issue on “Symmetry and Asymmetry in Artificial Intelligence for Cybersecurity” focuses on the dualistic nature of AI in cyberspace—where symmetry refers to balanced and structured uses of AI in defense mechanisms, while asymmetry highlights the unpredictable and disproportionate ways in which AI can be exploited by adversaries. The issue seeks to explore how AI technologies contribute to threat detection, response automation, intrusion prevention, and anomaly detection, while also examining the vulnerabilities introduced through adversarial attacks, data poisoning, model inversion, and other malicious AI tactics. We welcome interdisciplinary contributions that span theoretical foundations, practical implementations, simulations, and case studies, particularly those that integrate AI ethics, trustworthiness, transparency, and regulatory considerations into cybersecurity frameworks.

Guest Editor

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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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