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Advanced Studies of Symmetry/Asymmetry in Cybersecurity

Guest Editors:

Dr. Konglin Zhu
School of Artificial Intelligence, Beijing University of Posts and Telecommunications, Beijing, China

Dr. Pengcheng Wang
School of Cyber Science and Technology, Beihang University, Beijing 100191, China

Deadline for manuscript submissions:
31 August 2024

Message from the Guest Editors

Cybersecurity has become a critical concern for individuals, organizations, and governments. As technology advances and becomes more sophisticated, the need for effective cybersecurity measures has intensified. One approach that has gained significant attention in the field of cybersecurity is the concept of symmetry and asymmetry; the incorporation of both is deemed essential for developing effective defense strategies against modern threats. While symmetry focuses on building robust security measures, asymmetry allows defenders to leverage their advantages over attackers. By adopting a balanced and comprehensive approach, cybersecurity professionals can enhance their ability to protect individuals, organizations, and governments from cyber threats.

The aim of this Special Issue is to publish articles on the recent advancements in this field, spread across a universe of applications such as industry, robotics, traffic, autonomous vehicle, and blockchain, as well as in fundamental and theoretical forms.

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Editor-in-Chief

Prof. Dr. Sergei D. Odintsov
1. Institució Catalana de Recerca i Estudis Avançats (ICREA), Passeig Luis Companys, 23, 08010 Barcelona, Spain
2. Institute of Space Sciences (ICE-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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.

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Symmetry Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/symmetry
symmetry@mdpi.com
𝕏@Symmetry_MDPI