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Symmetry-Adapted Machine Learning for Information Security

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Message from the Guest Editor

Nowadays, security attacks on information and communication technology (ICT) are increasing. The ever-expanding utilization of the Internet has given rise to various types of new vulnerabilities and approaches to attack computer and communication systems; thus, making computers and network security a major concern. Due to the increasing pervasiveness of modern attacks, many organizations—mainly large commercial organizations—invest over 10% of their total ICT budget directly in network and computer security. ...

On the other hand, the symmetry-adapted machine-learning paradigm is an emerging Artificial Intelligence (AI) technology that relies on the extraction and analysis of data to identify hidden patterns of data....

This Special Issue emphasizes the development and application of the machine learning paradigm to handle information security issues in computers and communication systems.



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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.

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