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Emerging Technologies with Symmetry for Zero Trust

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Deadline for manuscript submissions:
31 May 2024

Message from the Guest Editor

Dear Colleagues,

Symmetry is an extraordinary characteristic which has been widely deployed in different research fields of computer engineering, such as symmetric architecture for telecommunications, symmetric network structures, and symmetric algorithms. Recently, an increasing number of organizations have embraced zero-trust technologies due to their ability to minimize risk in enforcing accurate, least privilege per-request access decisions in service applications under the circumstance of a compromised network. In a zero-trust architecture, each access request should be authenticated and evaluated whether the request is permitted no matter whether it originated from an external or internal network. In addition, unauthorized people from utilizing devices of authorized users can intrude other devices for lateral movement. Organizations need to evaluate the trustworthiness of access requests based on user behaviors and threat intelligence and adapt their associated access control policies. To date, the research community has stressed the importance of innovative technologies and integrated solutions for zero-trust...

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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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