



Symmetry and Asymmetry in Information Security and Network Security

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Symmetry plays an important role in network security and data hiding. Embedded secret information is usually characterized as hidden patterns in information hiding. The analysis of hiding patterns can help understand and evaluate the security of data hiding methods applied to communication networks. The symmetry and asymmetry of hidden patterns can conveniently describe and realize the covert communication channel. The study of detection and correction of hidden patterns is crucial for complex network data hiding approaches. Configure data hiding techniques to optimize the hidden patterns is promising for the security properties of practical network data hiding such as robustness, undetectability, capacity, etc. Therefore, understanding the symmetry and asymmetry of hidden patterns and their impact on the performance of network covert channels is essential. Overall, the use of symmetry and the understanding of data hiding techniques can help to improve network security.

Please note that all submitted papers must be within the general scope of the *Symmetry* journal.





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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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