Symmetry in Computing Theory and Application

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Message from the Guest Editors

In the computer arts and sciences, symmetry has had a profound and lasting impact. Similarly, computational treatment of symmetry plays an important role in computational sciences. Computational symmetry refers to the practice of representing, detecting, and reasoning about symmetries on computers. The intentions are to care about the computational symmetry in computer science. Recent interest in computational symmetry for computer fields, such as cryptographic theories, computational complexity, graphics, video streaming, computing algorithms, image processing, and data-hiding applications, have shown promising results. Symmetry often makes the probabilistic analysis of randomized algorithms easier and simpler.

Recently, the study of the symmetry of algorithmic or computational aspects gives us an understanding of the nature of symmetry. We invite manuscripts on all aspects of symmetry in symmetric computing theories and applications.

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Special Issue

Editor-in-Chief

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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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