

Special Issue

Studies of Symmetry in Applied Numerical Methods

Message from the Guest Editors

It is well known that in many cases numerical methods rely on various kinds of symmetry. For example, the finite element method has special ways of exploiting axial symmetry, semi-analytical finite elements exploit the translational symmetry of a waveguide, and Cholesky's method factors symmetrical matrices for solving systems of linear equations. We can expect that many more applications of symmetry in numerical methods are still waiting to be discovered. This Special Issue is dedicated to exploration of recent advances related to symmetry in applied numerical methods.

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About the Journal

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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