

Special Issue

Symmetry and Partial Differential Equations: Theory and Application

Message from the Guest Editor

Partial differential equations are widely used for modelling in physics, mechanics, chemistry and other natural sciences. Studying solution properties using partial differential equations is very useful for understanding natural phenomena. In this Special Issue, we aim to present the latest research on the solution theory and applications of the partial differential equations. In particular, we are also interested in articles on the numerical approximation of partial differential equations (finite difference methods, finite element methods, spectral methods and other numerical methods are welcome) and inverse problems of partial differential equations, including fractional partial differential equations (time fractional, space fractional and space–time fractional PDEs are all welcome).

Guest Editor

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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.

Editor-in-Chief

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