Special Issue

Symmetry and Asymmetry in Nonlinear Partial Differential Equations: Topics and Advances

Message from the Guest Editors

The theory of equations of parabolic, hyperbolic, elliptic, mixed, and general types is very important. Research on nonlinear partial differential equations; the existence of uniqueness (and multiple solutions) and stability of solutions to partial differential equations; the existence and asymptote of the initial value problem of partial differential equations and the overall solution of the initial boundary value problem (including the periodic solution and the approximate periodic solution); the existence of equilibrium solutions, especially the bifurcation structure of equilibrium solutions when the problem depends on certain parameters; the stability of equilibrium solutions; numerical solutions to nonlinear equations; H-semi-variational inequalities; the theory of differential equations for optimal control systems and their applications in power systems; and the regularization method and numerical of the inverse problem of nonlinear and linear partial equations is welcome.

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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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