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Recent Advances in Numerical Methods for Partial Differential Equations

Guest Editor:

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Message from the Guest Editor

Numerical methods for partial differential equations always play an important role in applied mathematics and its engineering applications, especially in computational fluid dynamics and computational electromagnetics. The current Special Issue aims to publish original high-quality papers of recent advances in numerical methods for partial differential equations with engineering and other practical background. Research papers may focus on numerical simulations, new algorithms and numerical analysis, based upon the finite element method, finite volume method, finite difference method, and spectral method, among others. The topics of research papers may include, but are not limited to, the following: Numerical Algorithms for Coupling of Multi-Physics; Parallel Algorithms in Space and/or Time; Interface Problems.

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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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