Special Issue

Advanced Numerical Methods for Differential Equations

Message from the Guest Editors

Differential equations, in general, have attracted more and more attention in mathematical, scientific, and engineering communities due to their wide real-life applications in mathematical modeling physical/engineering/biological systems, and many other areas. In general, it is difficult to solve some kind of mathematical model due to the complexity. These models are governed by differential equations whose solutions make it easy to understand real-life problems and can be applied to engineering and science disciplines. This Special Issue is mainly focused to address a wide range of computational methods ranging from efficient finite element and finite difference methods, adaptive methods, multi-scale methods, to spectral methods and kinetic Monte Carlo simulations. Computational challenges will be discussed, and new computational techniques will be introduced for various applications. Engineers, mathematicians, scientists, and researchers working on real-life mathematical problems will find this special issue useful.

Guest Editors

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The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

Entropy is an online open access journal providing an advanced forum for the development and/or application of entropic and information-theoretic studies in a wide variety of applications. *Entropy* is inviting innovative and insightful contributions. Please consider *Entropy* as an exceptional home for your manuscript.

Editor-in-Chief

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