Special Issue

Mathematical Models and Simulations

Message from the Guest Editor

Mathematical models constitute a fundamental tool for the understanding of physical phenomena, biological systems, and finance and engineering. In addition to theoretical aspects, simulations play a primary role in applications, because they allow for the prediction of the behavior of quantities of interest. The scope of this Special Issue is to collect papers in the field of mathematical physics, where different categories of mathematical models are presented both deterministic. Including but not limited to:

- mathematical models;
- ordinary differential equations;
- partial differential equations;
- stochastic processes;
- stochastic differential equations;
- finite difference schemes;
- finite volume schemes;
- finite element method;
- discontinuous Galerkin method;
- Monte Carlo method.

Guest Editor

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Deadline for manuscript submissions

closed (22 January 2024)

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About the Journal

Message from the Editor-in-Chief

Axioms is dedicated to the foundations (structure and axiomatic basis, in particular) of mathematical theories, not only from a crisp or strictly classical sense, but also from a fuzzy and generalized sense. This includes the more innovative current scientific trends, devoted to discover and solve new challenging problems. The prime goal of *Axioms* is to publish first-class, original research articles under an open access policy with minimal fees for the authors. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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