

Special Issue on Mathematical Modeling

Call for Papers

Mathematical modeling is the most effective bridge connecting mathematics and many disciplines such as Physics, Engineering, Biology, Computer Science, and other areas. A mathematical model can potentially help to explain and control the real phenomena, to uncover the underlying mechanisms via hypotheses and data fitting, to examine the effects of different components, and to make future predictions.

Since, mathematical models are generally written in terms of initial and boundary value problems for nonlinear ordinary (ODEs), partial (PDEs), and integro-differential equations, new methods and algorithm to find their exact, approximate, and asymptotic solutions are of special interest.

We invite researchers to contribute original research articles as well as review articles that will promote the development of new mathematical models, mathematical methods, and computational algorithms for solving real-world problems.

In this special issue, we intend to invite front-line researchers and authors to submit original research and review articles on exploring **Mathematical Modeling**.

This special issue aims to publish novel articles on various aspects of mathematical modeling including analytical and computational techniques.

Potential topics include, but are not limited to:

- Mathematical models in Physics, Engineering, Biology, and so forth;
- Computational and numerical methods for ODEs and/or PDEs modeling real-world systems;
- Computational Neuroscience.

Authors should read over the journal's [Author's Guidelines](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal [Paper Submission System](#).

Please kindly notice that the "**Special Issue**" under your manuscript title is supposed to be specified and the research field "**Special Issue—Mathematical Modeling**" should be chosen during your submission.

According to the following timetable:

Manuscript Due	May 10th, 2013
Publication Date	August 2013

Special Issue Editor

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