



## Special Issue on Computational Physics and Its Applications

### Call for Papers

Physicists often have very precise mathematical theories to describe physical systems but are limited in their ability to describe the physical world because so few of these theories are amenable to analytic solution. Invariably physicists must resort to approximate solutions using mathematical calculations which can be conveniently performed in order to obtain useful results that both broaden and deepen our understanding of physics. This has spawned the field of Computational Physics, which is the study and implementation of numerical algorithms to solve problems in physics for which a quantitative theory already exists.

In this special issue, we intend to invite front-line researchers and authors to submit original research and review articles on exploring **computational physics and its applications**. In this special issue, potential topics include, but are not limited to:

- The monte carlo method
- Finite element method
- The molecular dynamics method
- Computer algebra
- Mathematica in quantum mechanics
- Neural network method and its application
- High performance computing and parallel algorithm
- Topological mixing

Authors should read over the journal's [For Authors](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [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 - Computational Physics and Its Applications**” should be chosen during your submission.

According to the following timetable:

Submission Deadline	August 31st, 2016
Publication Date	October 2016

#### Guest Editor:

Prof. Wen-Xiu Ma, University of South Florida, USA

For further questions or inquiries



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