Numerical Analysis and Its Application and Symmetry

Guest Editors:

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Deadline for manuscript submissions:
closed (31 October 2022)

Message from the Guest Editors

Dear Colleagues,

I would like to inform you that this SI entitled "Numerical Analysis and Its Application" is welcoming papers that present research that includes the study, design and development, analysis, and/or programming of numerical schemes in order to apply them for the solution of one or a certain category of mathematical models.

Numerical analysis is a major branch of Mathematics that consists of mathematical approximation techniques and computational methods. Applications of numerical methods can be found in a wide range of problems in engineering, physical sciences, life and medical sciences, etc., and in general to problems where classical analytical methods cannot provide a solution.

We are interested in numerical approaches to and solutions to problems that may lead to ODEs, PDEs, SDEs, DDEs, DAEs. We are also interested in numerical methods for the solution of nonlinear equations or systems of nonlinear equations. Furthermore, we are seeking novel research in the field of numerical analysis related to linear algebra, optimization, control theory, fluid dynamics, and applications of the above to problems in engineering, economy, biology, and medicine.

Special Issue

Editor-in-Chief

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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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