Symmetry in Numerical Analysis and Numerical Methods

Guest Editor:

Dr. Dimitrios Mitsotakis
Victoria University of Wellington,
New Zealand

Deadline for manuscript submissions:
closed (17 December 2021)

Message from the Guest Editor

Dear Colleagues,

Both fields of numerical and mathematical analysis are of significant importance for the solution and understanding of mathematical problems in science and technology. The mathematical problems appearing in various fields of science are usually expressed in terms of differential equations. Several numerical and mathematical methods for the solution of differential equations rely on the geometrical and analytical properties of the mathematical and/or numerical problems. In this Special Issue, the focus is on the numerical methods for the approximation of solutions of differential equations, with emphasis on the geometrical properties of both mathematical and numerical problems. Computational results that show the advantages and help to advance the understanding of the prescribed numerical methods should be included. Results in mathematical analysis, differential geometry, and variational methods, combined with the analysis of the numerical algorithms and methods are topics also appropriate for this Special Issue.

mdpi.com/si/32261

Special Issue

Editor-in-Chief

Prof. Dr. Sergei D. Odintsov
1. Institució Catalana de Recerca i Estudis Avançats (ICREA), Passeig Luis Companys, 23, 08010 Barcelona, Spain
2. Institute of Space Sciences (ICE-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.
Journal Rank: JCR - Q2 (*Multidisciplinary Sciences*) / CiteScore - Q1 (General Mathematics)

Contact Us