

Special Issue

Computational Methods and Applications for Numerical Analysis, 2nd Edition

Message from the Guest Editors

We are delighted to announce the second volume of our Special Issue on "Computational Methods and Applications for Numerical Analysis". Building upon the success of the first volume, we aim to continue exploring the innovative computational methods and their diverse applications in numerical analysis. The scope encompasses a wide range of areas, including theory, algorithms, programming, coding, numerical simulation, and novel applications of computational techniques in engineering, science, and related disciplines. Contributions may explore various computational methods within applied mathematics and mechanics, including (but not limited to) finite element methods, finite difference methods, finite volume methods, meshless and particle methods, peridynamics, molecular dynamics, interpolation, approximation, optimization, quadrature methods, numerical linear algebra, and numerical methods for ordinary and partial differential equations. The goal is to showcase research that addresses real-world challenges and demonstrates the effectiveness of computational approaches for solving problems across scientific and engineering domains.

Guest Editors

Prof. Dr. Fajie Wang

College of Mechanical and Electrical Engineering, Qingdao University,
Qingdao 266071, China

Prof. Dr. Ji Lin

College of Mechanics and Engineering Science, Hohai University,
Nanjing 211100, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

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