Special Issue

Numerical Simulation and Computational Methods in Engineering and Sciences

Message from the Guest Editors

During the past several decades, numerical simulation has been increasingly used as an important and powerful tool for solving science and engineering problems, thanks to the rapid development of computer technology and advanced computational methods. This Special Issue will present recent research results on numerical simulation and computational methods in engineering and sciences. You are invited to submit original research or review papers to this Special Issue, which will include papers in the areas of computational mechanics, computational physics, computational chemistry, and computational biology, pertinent to solids, fluids, gases, biomaterials, and other continua. Various length scales and various time scales are of interest. Papers which deal with multi-physics problems, as well as those which deal with the interfaces of mechanics, chemistry, and biology, are particularly encouraged. New computational approaches and more efficient algorithms which eventually make near-real-time computations possible are welcome. Original papers dealing with new methods such as meshless methods and mesh-reduction methods are also welcome.

Guest Editors

Prof. Dr. Zhuojia Fu

Prof. Dr. Yiqian He

Prof. Dr. Hui Zheng

Deadline for manuscript submissions

closed (30 January 2024)

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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

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