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Computational Methods and Applications for Numerical Analysis

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Message from the Guest Editors

Numerical analysis is an increasingly important link between pure mathematics and its application in science and technology. With the rapid development of science technology and computer technology, simulation has gradually become a powerful tool for scientific research and solving engineering problems. This Special Issue invites both original researches and review papers that bring together new computational methods and applications for numerical analysis. The articles can involve theory, algorithm, programming, coding, numerical simulation and/or novel application of computational techniques to problems in engineering, science, and other disciplines related to computations. It covers any type of computational method in applied mathematics and mechanics. Some possible topics of interest include finite element methods, finite difference methods, finite volume methods, meshless and particle methods, peridynamics, molecular dynamics, interpolation, approximation, optimization, quadrature methods, numerical linear algebra, numerical methods for ordinary/partial differential equations, etc. and their applications for solving real problems in sciences and engineering.











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Message from the Editor-in-Chief

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