Special Issue

Applications of Iterative Methods in Solving Nonlinear Equations

Message from the Guest Editors

Numerical analysis is a research area of applied mathematics that has experienced an important boom in recent decades. A common problem in science, engineering and economics disciplines lies in the requirement of the solution to a nonlinear equation or system of equations. We resort to approximate solutions where analytical solutions do not reach. One of the strategies consists of the use of iterative methods for solving equations and systems of nonlinear equations. The design and analysis of iterative methods for solving nonlinear problems is the subject of this Special Issue, as are their potential applications. In this sense, research on memoryless and memory methods, methods to find multiple roots, methods to simultaneously obtain all the solutions of a problem or methods using fractional derivatives, among others, are welcome.

Guest Editors

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Deadline for manuscript submissions

closed (30 November 2023)

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Message from the Editor-in-Chief

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