Iterative Methods in Solving Nonlinear Equations Based on Fractal and Fractional Perspective

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Message from the Guest Editors

Dear Colleagues,

Numerical analysis is a research area of applied mathematics that has experienced a significant boom in recent decades. A common problem in science, engineering and economics disciplines lies in the requirement of the solution for a nonlinear equation or system of equations. We resort to approximate solutions in cases where analytical solutions are not adequate. One of these 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.

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