Special Issue

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

Message from the Guest Editors

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.

Guest Editors

Prof. Dr. Neus Garrido

Prof. Dr. Francisco I. Chicharro

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Deadline for manuscript submissions

closed (31 July 2025)



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About the Journal

Message from the Editor-in-Chief

Fractal and Fractional (Fractal Fract.) is a scholarly online journal which provides a forum for discussion on new original models and methods in fractals and fractional calculus both from theory and applications. It is a peer-reviewed, open access journal that publishes high quality original research articles, review papers and short communications.

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