

Special Issue

Boundary Value Problems for Nonlinear Fractional Differential Equations: Theory, Methods and Application

Message from the Guest Editor

This Special Issue is devoted to the broad research areas involving Boundary Value Problems (BVPs) of Nonlinear Fractional Differential Equations. The study of nonlinear BVPs for Ordinary Differential Equations (ODEs), Partial Differential Equations (PDEs), Fractional Differential Equations (FDEs), and their discrete counterparts in the form of Difference Equations has a long history and various applications in sciences, engineering, social activities, and natural phenomenon. In particular, BVPs for fractional-order differential equations have attracted more and more interest and have achieved significant improvements recently, partly due to their new applications in physics, control theory, quantitative finance, econometrics, and signal processing. We are interested in the most recent advances in the theory, methods, and applications of FDEs. Topics include, but are not limited to: Existence and positivity of solutions; Uniqueness and multiplicity of solutions; Stability and equilibrium; Fixed point methods and applications; Modeling with FDEs; Numerical solutions; Neural networks and FDEs; Eigenvalue problems; Fractional q -differential equations.

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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.

Editor-in-Chief

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