



Special Issue on
Fractional Calculus and Fractional Differential Equations
Call for Papers

Fractional Calculus and Fractional Differential Equations covers the theory, mathematical foundations, numerical methods, and applications of differentiation and integration of arbitrary real or complex orders. Major topics include fractional derivatives and integrals, Caputo and Riemann–Liouville operators, fractional differential equations, fractional partial differential equations, fractional-order dynamical systems, analytical and numerical solution methods, stability analysis, existence and uniqueness, fractional integral transforms, and variable-order models. Applications extend to viscoelasticity, anomalous diffusion, control systems, signal processing, fluid dynamics, biological modeling, and other areas where memory effects and nonlocal phenomena play an important role.

In this special issue, we intend to invite front-line researchers and authors to submit original research and review articles on exploring **Fractional Calculus and Fractional Differential Equations**. Potential topics include, but are not limited to:

- Fractional derivatives
- Fractional integrals
- Fractional differential equations
- Fractional partial differential equations
- Caputo derivatives
- Riemann–liouville operators
- Grünwald–letnikov derivatives
- Variable-order calculus
- Fractional dynamical systems
- Numerical fractional methods
- Analytical solution techniques
- Stability analysis
- Existence and uniqueness
- Fractional control systems
- Fractional diffusion models
- Applications of fractional calculus

Authors should read over the journal's [For Authors](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).



Please kindly specify the “**Special Issue**” under your manuscript title. The research field “**Special Issue - *Fractional Calculus and Fractional Differential Equations***” should be selected during your submission.

Special Issue Timetable:

Submission Deadline	December 16th, 2026
Publication Date	February 2027

Guest Editor:

For further questions or inquiries, please contact Editorial Assistant at am@scirp.org.