

## Special Issue

# Applications of Fractional Calculus in Modern Mathematical Modeling

### Message from the Guest Editors

Fractional calculus extends the notion of derivatives and integrals of arbitrary order and gives rise to a variety of complex models and analyzes. This is due to its ability to capture the effects of memory and many other effects that other forms of calculus simply cannot capture.

Therefore, this Special Issue will aggregate the latest research that focuses on the most recent theoretical advances, computing methods, and wide applications of fractional calculus in the modern mathematical modeling of various fields such as physics, biology, engineering, and finance. It will be centered around the theory of fractional calculus, new analytical and numerical methods for solving fractional differential equations, fractional partial differential equations and their applications, the biological modeling of fractional calculus, control systems and engineering, the application of fractional differential calculus to financial and economic problems, the mathematics of fractional calculus methods, non-local operators in mathematical modeling, the epidemiology and treatment of infectious diseases, and the use of fractional operators and models of time-fractional derivatives.

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### Guest Editors

Prof. Dr. Feliz Manuel Minhós

Dr. Ali Raza

Dr. Muhammad Mohsin

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### Deadline for manuscript submissions

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## Fractal and Fractional

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## About the Journal

### Message from the Editor-in-Chief

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#### Editor-in-Chief

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