

## Special Issue

# Recent Advances in Fractional Differential Equations and Inequalities

### Message from the Guest Editors

Fractional calculus is a sub-branch of applied mathematics, and fractional analysis has become an absorbing field for scientists and mathematicians due to its widespread applications in modeling, engineering, mathematical biology, financial modeling, and fluid flow. Furthermore, the combined study of convex analysis and integral inequalities in the frame of fractional operators presents a captivating field of research within mathematics. Convexity and integral inequalities have remarkable uses in probability, optimization theory, information technology, stochastic processes, statistics, integral operator theory, and numerical integration. We invite researchers to contribute their original and high-quality research and review papers to this Special Issue, with a focus on fractional differential equations and inequalities.

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### Guest Editors

Prof. Dr. Sotiris K. Ntouyas

Prof. Dr. Johnny Henderson

Dr. Kamsing Nonlaopon

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### Deadline for manuscript submissions

closed (30 June 2025)



## Axioms

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## About the Journal

### Message from the Editor-in-Chief

*Axioms* is dedicated to the foundations (structure and axiomatic basis, in particular) of mathematical theories, not only from a crisp or strictly classical sense, but also from a fuzzy and generalized sense. This includes the more innovative current scientific trends, devoted to discover and solve new challenging problems. The prime goal of *Axioms* is to publish first-class, original research articles under an open access policy with minimal fees for the authors. We would be pleased to welcome you as one of our authors.

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### Editor-in-Chief

Prof. Dr. Humberto Bustince

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