Recent Advances in Fractional Calculus

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Message from the Guest Editors

Dear Colleagues,

One of the fundamental characteristics of fractional calculus is its two-sided character: on the one hand, it is an area as old as classical calculus (of integer order), and on the other it is up-to-date, making it one of the most dynamic areas of mathematical sciences today. In fact, in recent decades there has been an increase in the number of researchers and publications related to this topic. This increase can be observed in both pure and applied mathematics, in a wide range of areas: from biological models to integral inequalities, through q-calculus, to the study of delayed, neutral, hybrid systems etc.

All the above means that we can work not only with integral operators of Riemann–Liouville type, but also with differential operators of Caputo or Riemann–Liouville type and their generalizations, with q-calculus operators, with generalized local operators, which gives us the possibility of studying and analyzing phenomena of a very different nature, in a wide variety of problems.

We cordially invite researchers to contribute their original and high-quality research papers in the above topics.

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