

Special Issue

Recent Research on Fractional Calculus: Theory and Applications, 2nd Edition

Message from the Guest Editors

Fractional calculus is a theory that unifies differential and integral operators of arbitrary (integer and non-integer) orders to form differintegral operators. The theory is gaining popularity due to its applicability to real-world problems, such as the description of memory-dependent biological phenomena. Therefore, this Special Issue aims to present advancements in fractional calculus, from both theoretical and applicational perspectives. The scope of this Special Issue includes, but is not limited to, the following topics:

- The properties of fractional operators defined by new kernels functions;
- Static and dynamic optimization methods based on fractional operators;
- Fractional nonlinear dynamical systems and control;
- The mathematics of infectious diseases by fractional operators.

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The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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