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Mathematical Inequalities and Fractional Calculus

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Message from the Guest Editors

Dear Colleagues,

Integral inequalities are a fundamental concept in calculus and mathematics in general. They have great importance in various fields, both theoretical and applied, such as the analysis of functions, measure theory, functional analysis, optimization and control, initial and boundary value problems, and error estimation.

In recent years, interest in the study of classical inequalities has increased. Generalizations of the inequalities are often applied to integral operators associated with different types of fractional integrals and derivatives, such as the Hadamard, Riemann–Liouville, Weil, Erdelyi–Kober, Katugampola integrals and other types defined by different mathematicians. These results have demonstrated their usefulness and potential in the modeling of different processes and phenomena.

We cordially invite interested researchers to contribute original and high-quality research on the aforementioned topics to this Special Issue.

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Message from the Editor-in-Chief

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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