Fractional Calculus: Methods and Modeling in Physics, Engineering and Applied Sciences — in Memory of Prof. J. A. Tenreiro Machado

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Message from the Guest Editors

During the last four decades, fractional calculus has been found to be remarkably popular and important, due mainly to their demonstrated applications in numerous seemingly diverse and widespread fields of mathematics, physics, engineering, etc.

Fractional calculus is nowadays applied in several fields of science, such as quantum mechanics, information theory, dynamical systems and health science. Moreover, many researchers have also found applications in non-scientific areas (e.g., life sciences, social sciences).

In this Special Issue, we invite and welcome review, expository and original papers dealing with recent advances in fractional calculus and from a more general point of view to all theoretical and practical studies in mathematics, physics and engineering focused in some way on this topic.

The main topics of this Special Issue include (but are not limited to):

- Fractional equations
- Fractional modelling
- Fractional calculus of special functions
- Entropy concept and fractional calculus
- Fractional boundary value problems
- Fractional control theory
- Chaoticity and fractional calculus
- Fractal geometry and fractional calculus.

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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