Special Issue

Fractional Order Systems and Its Applications

Message from the Guest Editors

The Special Issue on **"Fractional Order Systems and Its Applications"** invites high-quality research contributions in the growing field of fractional calculus and its diverse engineering and scientific applications. Fractional order systems, defined by derivatives and integrals of non-integer order, offer enhanced modeling capabilities for systems with memory and hereditary properties, outperforming traditional integer-order models in many cases. This Special Issue welcomes original research, reviews, and case studies addressing theoretical advances, numerical techniques, control approaches, and practical implementations. We especially encourage interdisciplinary works demonstrating the effectiveness of fractional models in areas such as control engineering, signal processing, biomedical systems, robotics, and complex dynamics.

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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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