



Fractional-Order Learning Systems: Theory, Algorithms, and Emerging Applications

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Message from the Guest Editor

Dear Colleagues,

Ideas of calculus based on the integration and differentiation of integer orders have firmly formed the mathematical basis for modelling signals, systems, and deriving methods for signal processing, learning, and control. However, integer-order calculus is a special case of a much wider framework that can accommodate the integration and differentiation of fractional orders. In recent years, it has come to the attention of researchers that using the integration and differentiation of fractional orders results in mathematical models of physical systems that are more accurate, highlighting the need for a comprehensive understanding of the deployment of fractional-order calculus in the fields of signal processing, control, learning, and circuit design.

This Special Issue delves into recent advances in the theory of fractional-order calculus and its applications in information processing techniques.

