## **Special Issue**

## State-of-the-Art in Fractional-Order Neural Networks: Theory, Design and Applications

## Message from the Guest Editors

In the present, fractional-order differential equation theory has become a vital part of many areas, such as applied mathematics, physics, neural networks, engineering, etc. In particular, the exploration of fractional-order neural networks has received significant attention from a great deal of mathematicians, physicians, and engineers, as well as scholars and scientists since fractional-order neural networks display a great application prospect in many areas, such as pattern recognition, image processing, artificial intelligence, secure communication, and so on. In order to grasp the inherent dynamical laws of fractional-order neural networks to serve humanity, it is meaningful for us to probe into the dynamics of fractional-order neural networks. The focus of this Special Issue is to continue to promote research on topics involving stability theory, bifurcation theory, synchronization theory, periodic solutions, design and application of fractional-order neural networks, etc.

### **Guest Editors**

Dr. Changjin Xu

Prof. Dr. Maoxin Liao

Dr. Peiluan Li

## Deadline for manuscript submissions

closed (30 November 2023)



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## **About the Journal**

## Message from the Editor-in-Chief

Fractal and Fractional (Fractal Fract.) is a scholarly online journal which provides a forum for discussion on new original models and methods in fractals and fractional calculus both from theory and applications. It is a peer-reviewed, open access journal that publishes high quality original research articles, review papers and short communications.

### Editor-in-Chief

Prof. Dr. Carlo Cattani

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