Fractal and Fractional

an Open Access Journal by MDPI

CiteScore: 6.0
Impact Factor: 3.3

Special Issue Reprint

Continuous/Discrete-Time Fractional Systems

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Over the past thirty years, fractional calculus has become an integral part of all scientific fields. Although not all formulations are suitable for use in applications, there are several tools that constitute true generalizations of classical operators and are suitable for describing real phenomena. In fact, many systems can be classified as displacement-invariant or scale-invariant and have fractional characteristics, either in time or in frequency/scale. This means that some of the known fractional operators, specifically those described by ARMA-type equations, are very useful in many areas, such as diffusion, viscoelasticity, fluid mechanics, bioengineering, dynamics of mechanical, electronic, and biological systems, signal processing, control, economics, and others.

The aim of this Reprint is to continue advancing research on topics such as modeling, design, and estimation related to fractional-order systems.

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