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Discrete Fractional Calculus Applications In

Numerical computations are performed by means of basic definitions and graphs are provided for different fractional orders. Also some applications and development in qualitative theory of Discrete...

Discrete Fractional Calculus: Definitions and Applications

In the second part, selected applications of the discrete fractional calculus in the discrete system control theory are presented. In the discrete system identification, analysis and synthesis, one can consider integer or fractional models based on the fractional-order difference equations.

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Discrete Fractional Calculus: Applications in Control and

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This study provides some basics of fuzzy discrete fractional calculus as well as applications to fuzzy fractional discrete-time equations. With theories of r -cut set, fuzzy Caputo and Riemann–Liouville fractional differences are defined on a isolated time scale. Discrete Leibniz integral law is given by use of w -monotonicity conditions.

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Fractional discrete-time diffusion equation with ...

Fractional calculus is a field of applied mathematics that deals with derivatives and integrals of arbitrary orders, and their applications appear in science, engineering, applied mathematics, economics and other fields [10, 11, 14, 18, 20, 21, 24, 26].

Discrete Fractional Calculus and Its Applications to Tumor ...

The discrete fractional calculus deals with the study of fractional order sums and differences and their diverse applications ([1], [2], [3], [4], [5], [10]). As continuous fractional calculus that has widespread applications in different fields of science and engineering, applications of discrete fractional calculus will be ideal, too.

AN APPLICATION OF DISCRETE FRACTIONAL CALCULUS IN

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STATISTICS

THE THEORY OF DISCRETE FRACTIONAL CALCULUS:

DEVELOPMENT AND APPLICATION Michael Holm, Ph.D. University of Nebraska, 2011 Adviser: Lynn Erbe and Allan Peterson The author™s purpose in this dissertation is to introduce, develop and apply the tools of discrete fractional calculus to the arena of fractional difference equations. To

The Theory of Discrete Fractional Calculus: Development

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systems could be applied with small changes to discrete fractional order state-space systems. ... (5, 6, 7) are related to applications of fractional calculus in bio-engineering fields. Chapter 5 is dedicated to the mathematical modeling of skin structure applying fractional calculus where it

Advanced Topics on Applications of Fractional Calculus on

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Malinowska et al. [74] introduced the multidimensional discrete-time fractional calculus of variations. Basic concepts and solution to state equations of the fractional discrete-time linear systems are presented in [75]. In the area of fractional optimal control, most of the existing works in the literature consider continuous time problems.

Discrete-Time Fractional Optimal Control

Journal of Fractional Calculus and Applications is a peer-reviewed international electronic journal, which publishes both surveys/reviews and research articles on the fields of fractional-order differential and integral equations and its applications in all fields of Science.

Journal of Fractional Calculus and Applications

Discrete fractional calculus and its applications have become an attractive topic in recent years since Miller and Ross [1] initiated

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the discrete fractional calculus in 1988.

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Read "Discrete Fractional Calculus: Applications In Control And Image Processing" by Piotr Ostalczyk available from Rakuten Kobo. The main subject of the monograph is the fractional calculus in the discrete version. The volume is divided into three m...

Discrete Fractional Calculus: Applications In Control And

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Then discrete fractional calculus within delta dynamic equations have been studied by many researchers recently. For example, Atici defined the fractional derivatives on the time scale, and investigated linear fractional difference equations. The analytical formula of discrete Mittag-Leffler function was derived.

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Discrete tempered fractional calculus for new chaotic ...

The purpose of this paper is to develop a fractional white noise calculus and to apply this to markets modeled by (Wick-) Itô type of stochastic differential equations driven by fractional Brownian motion $B^H(t)$; $1/2 < H < 1$. We show that if we use an Itô type of stochastic integration with respect to $B^H(t)$ (as developed in Ref. 8), then the corresponding Itô fractional Black ...

FRACTIONAL WHITE NOISE CALCULUS AND APPLICATIONS TO ...

Generally speaking, fractional-order calculus can be used to better describe the systems with memory effect, and it is widely used in different fields including quantum mechanics, electromagnetic oscillations, control, and material mechanics.

14-19 14. H. Rudolf, Applications of Fractional Calculus in Physics (World Scientific, 2000), 15.

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Modeling of discrete fracmemristor and its application ...

The fractional difference equation, named discrete fractional equation, also can be regarded as the discrete form of a continuous fractional differential equation. The specific field of discrete fractional calculus (DFC) is a hot topic which develops rapidly in recent years.

Discrete Fractional-Order Systems with Applications in ...

Nowadays the fractional calculus is studied both for its theoretical interest as well as its use in applications. In spite of the existence of a substantial mathematical theory of the continuous fractional calculus, there was really no substantive parallel development of a discrete fractional calculus until very recently.

Preface - Discrete Fractional Calculus

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Two main goals of discrete and fractional discrete calculus are to extend results from traditional calculus and to unify results on the real line with those on a variety of subsets of the real line. Of particular interest is introducing and analyz-

Development and Application of Difference and Fractional

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In the second part, selected applications of the discrete fractional calculus in the discrete system control theory are presented. In the discrete system identification, analysis and synthesis, one can consider integer or fractional models based on the fractional-order difference equations.

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