

# Discrete Fractional Calculus Applications In Control And Image Processing Series In Computer Vision

## [Book] Discrete Fractional Calculus Applications In Control And Image Processing Series In Computer Vision

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### Discrete Fractional Calculus Applications In

#### **Discrete Fractional Calculus and Its Applications to Tumor ...**

demonstrate some basic definitions and properties of discrete fractional calculus while developing the simplest discrete fractional variational theory Some applications of the theory to tumor growth are also studied The first chapter is a brief introduction to discrete fractional calculus ...

#### **AN APPLICATION OF DISCRETE FRACTIONAL CALCULUS IN ...**

engineering, applications of discrete fractional calculus will be ideal, too In this work, we follow our previous works, [6], [7] and [8], about applications of fractional calculus in statistics, we present an application of discrete fractional calculus ...

#### **The Theory of Discrete Fractional Calculus: Development ...**

of discrete fractional calculus to the arena of fractional difference equations To this end, we develop the Fractional Composition Rules and the Fractional Laplace Transform Method to solve a linear, fractional ...

#### **DISCRETE FRACTIONAL CALCULUS WITH THE**

has been more work in the study of discrete fractional calculus using the backward difference [11, 8, 10, 12, 13]; applications arising in time series analysis have motivated the development in discrete backward fractional calculus As is typical in fractional calculus...

#### **NABLA Fractional Calculus and Its Application in Analyzing ...**

On the other hand, discrete fractional calculus is the discrete version of fractional calculus which deals with any positive real order of sum or difference. The nabla operator ( $\nabla$ ) is known as the ...

### Development and Application of Difference and Fractional ...

focus on analogues of calculus and of fractional calculus on discrete time scales, ie, discrete calculus and discrete fractional calculus. Discrete fractional calculus is a relatively young field of study that begins with the analysis of calculus restricted to any generic closed subset of the real line. An attractive feature of discrete

### FRACTIONAL CALCULUS AND SPECIAL FUNCTIONS

Applications of Fractional Calculus in Physics, which provides an introduction to fractional calculus for physicists, and collects review articles written by some of the leading experts. In the above books we recommend the introductory surveys on fractional calculus ...

### Advanced Topics on Applications of Fractional Calculus on

systems could be applied with small changes to discrete fractional order state-space systems. The approach (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 ...

### Fractional Calculus And Its Applications Research Papers ...

Fractional Calculus in Medical and Health Science-Devendra Kumar 2020-06-25 This book covers applications of fractional calculus used for medical and health science. It offers a collection of research articles built into chapters on classical and modern dynamical systems formulated by fractional ...

### Some applications of fractional order calculus

al calculus theory and its properties may be found in eg, [1, 2]. As far as the applications of fractional calculus are concerned there is a large volume of research on viscoelasticity/damping, see eg, [3, ...

### Bifurcation and chaos in the fractional form of Hénon-Lozi ...

and applications of discrete fractional calculus [6-8]. To date, many works concerning chaos and control in **fractional**-order maps have been published [9-18]. From what has been reported in the literature, **fractional discrete** systems are sensitive to variations in the **fractional** ...

1. [PDF]

## [A New Application of the Fractional Logistic Map](#)

[www.nipnero/rjp/2016\\_61\\_7-8/RomJPhys61p1172pdf](http://www.nipnero/rjp/2016_61_7-8/RomJPhys61p1172pdf)

Key words: **Discrete fractional calculus**, chaos, **fractional** logistic map, image encryption. 1 INTRODUCTION **Fractional calculus** describes very well the complex real-world phenomena in cases when the nonlocality is present [1-11]. The image encryption techniques have been of increased interest for extensive **applications** ...

2. [PDF]

## [Fractional Calculus Theory And Applications \[EBOOK\]](#)

<https://veglamatgaffeyfhcom/7446b7/fractional>

**fractional calculus** theory and **applications** Sep 07, 2020 Posted By Beatrix Potter Publishing TEXT ID a43f4df9 Online PDF Ebook Epub Library undergraduates and graduate students not only does it explain the purchase the **fractional calculus** theory and **applications** ...

3. [PDF]

## [WELL-POSEDNESS, REGULARITY, AND ASYMPTOTIC ...](#)

<https://ejdemathtxstateedu/Volumes/2018/173/cuestapdf>

BEHAVIOR OF CONTINUOUS AND **DISCRETE** SOLUTIONS OF LINEAR **FRACTIONAL** INTEGRO-DIFFERENTIAL EQUATIONS WITH TIME-DEPENDENT ORDER EDUARDO CUESTA, RODRIGO PONCE **fractional calculus** has become a very active eld of The main reason is that practical **applications** ...

4. [PDF]

## [Solutions of Singular Differential Equations by means of](#)

<https://dergiparkorgtr/en/download/article-file/914970>

The remarkably widely investigated subject of **fractional** and **discrete fractional calculus** has gained importance and popularity during the past three decades or so, due chiefly to its demonstrated **applications** ...

5. [PDF]

## [Sum and Difference Compositions in Discrete Fractional ...](#)

<https://scieloconicytcl/pdf/cubo/v13n3/art09pdf>

and model a variety of applied problems Indeed, Podlubney [9] outlines **fractional calculus applications** in the fields of viscoelasticity, capacitor theory, electrical circuits, electroanalytical chemistry, neurology, diffusion, control theory and statistics Significantly less is known, however, about

discrete fractional calculus...

6. [PDF]

## [The Variable-Order Fractional Calculus of Variations](#)

<https://arxiv.org/pdf/180500720pdf>

numerous **applications** The first book devoted to the **fractional calculus** was published by Oldham and Spanier in 1974, where the authors systematized the main ideas, methods and **applications** about this field (Mainardi, 2010) In the recent years, **fractional calculus** ...

7. [PDF]

## [An Impulsive Delay Discrete Stochastic Neural Network](#)

<https://www.pmfniacrs/filomat-content/2018/32-18/32-18-17-4810pdf>

An Impulsive Delay **Discrete** Stochastic Neural Network **Fractional**-Order Model and **Applications** in Finance Martin J Bohner, Ivanka M Stamova Missouri S&T, Department of Mathematics and ...

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