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Fractional Processes And Fractional Order

In Fractional Processes and Fractional-order Signal Processing, some complex random signals, characterized by the presence of a heavy-tailed distribution or non-negligible dependence between distant observations (local and long

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memory), are introduced and examined from the 'fractional' perspective using simulation, fractional-order modeling and filtering and realization of fractional-order systems. These fractional-order signal processing (FOSP) techniques are based on fractional ...

Fractional Processes and Fractional-Order Signal ...

Since diffusion processes are involved, and anomalous diffusion can often be found in biological processes, these equations can be considered of fractional order. By varying this fractional order, the interference of an osteolytic metastatic bone disease can be modeled as a reduction of the differential order.

Fractional-Order - an overview | ScienceDirect Topics

Fractional processes are widely found in science, technology and engineering systems. In Fractional Processes and Fractional-order Signal Processing, some

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complex random signals, characterized by the presence of a heavy-tailed distribution or non-negligible dependence between distant observations (local and long memory), are introduced and examined from the 'fractional' perspective using simulation, fractional-order modeling and filtering and realization of fractional-order systems.

Fractional Processes and Fractional-Order Signal ...

Fractional processes, which can be considered as outputs of the fractional-order systems, have significant and complex long-memory properties. In order to best understand the fractional-order systems and extract valuable information from the fractional-order signals, fractional-order signal processing techniques are put forward for different kinds of fractional signals. All discussions on fractional-order signal processing techniques are centered around fractional calculus, fractional ...

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An Overview of Fractional Processes and Fractional-Order ...

Request PDF | On Jan 1, 2011, Hu Sheng and others published Fractional processes and fractional-order signal processing. Techniques and applications | Find, read and cite all the research you need ...

Fractional processes and fractional-order signal ...

This paper deals with the application of the fractional calculus as a tool for mathematical modeling and analysis of real processes, so called fractional-order processes.

Fractional Processes and Fractional-Order Signal ...

(2020). Tempered fractional Poisson processes and fractional equations with Z-transform. Stochastic Analysis and Applications: Vol. 38, No. 5, pp. 939-957.

Tempered fractional Poisson

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The book presents efficient numerical methods for simulation and analysis of physical processes exhibiting fractional order (FO) dynamics. The book introduces FO system identification method to estimate parameters of a mathematical model under consideration from experimental or simulated data. A simple tuning technique, which aims to produce a robust FO PID controller exhibiting iso-damping ...

Fractional Order Processes: Simulation, Identification ...

<section class="abstract"><h2 class="abstractTitle text-title my-1" id="d896e2">Abstract</h2><p>In this paper, a numerical technique for a general form of nonlinear ...

A numerical technique for a general form of nonlinear ...

Processes and systems of fractional order recently attract research interests.

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This special issue collects 18 papers with respect to dynamical processes and systems of fractional order, their computations, and their applications. Fractional-order models and problems are the main focus of this issue.

Dynamical Processes and Systems of Fractional Order

A fractional process with a constant long memory parameter can be regarded as the output signal of a fractional-order system driven by white Gaussian noise.

Constant-Order Fractional Processes | Request PDF

Chaotic dynamical systems are studied in this paper. In the models, integer order time derivatives are replaced with the Caputo fractional order counterparts. A Chebyshev spectral method is presented for the numerical approximation. In each of the systems considered, linear stability analysis is established. A range of chaotic behaviours are obtained at the instances

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of fractional power which ...

Modelling of Chaotic Processes with Caputo Fractional ...

entropy Article Modelling of Chaotic Processes with Caputo Fractional Order Derivative Kolade M. Owolabi 1,2, José Francisco Gómez-Aguilar 3,*, G. Fernández-Anaya 4, J. E. Lavín-Delgado 5 and E. Hernández-Castillo 6 1 Faculty of Mathematics and Statistics, Ton Duc Thang University, Ho Chi Minh City 700000, Vietnam; koladematthewowoabi@tdtu.edu.vn

Modelling of Chaotic Processes with Caputo Fractional ...

(2018) Extremely low order time-fractional differential equation and application in combustion process. Communications in Nonlinear Science and Numerical Simulation 64 , 135-148.
(2018) Time-stepping discontinuous Galerkin approximation of optimal control problem governed by time fractional diffusion equation.

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Numerical Algorithms for Time-Fractional Subdiffusion ...

In probability theory, a fractional Poisson process is a stochastic process to model the long-memory dynamics of a stream of counts. The time interval between each pair of consecutive counts follows the non-exponential power-law distribution with parameter α , which has physical dimension $[\alpha] = -$, where $0 < \alpha \leq 1$. In other words, fractional Poisson process is non-Markov counting stochastic process ...

Fractional Poisson process - Wikipedia

Sheng / Chen / Qiu, Fractional Processes and Fractional-Order Signal Processing, Softcover reprint of the original 1st ed. 2012, 2016, Buch, 978-1-4471-6924-6. Bücher schnell und portofrei

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