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Themes such as PID control, robust path tracking design and motion control methodologies involving fractional

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differentiation are amongst those explored. It juxtaposes recent theoretical results at the forefront in the field, and applications that can be used as exercises that will help the reader to assimilate the proposed methodologies.

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However, applying the fractional differentiation operator practically is always difficult. So far few methods have been developed in the literature for fractional-order integrators and differentiators of the form $s^{-\nu}$, $\nu \in (-1, 1)$ for the simulation and realization. Among others, the Oustaloup recursive approximation (Oustaloup et al., 2000;

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Podlubny, 2002; Merrikh-Bayat, 2012b)
is the ...

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Processor Design for QRS Detection
Abstract: This paper presents an

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efficient infinite impulse response type
digital fractional order differentiator
(DFOD) based electrocardiogram (ECG)
pre-processor to detect QRS complexes.
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Fractional Order Control. Dynamic
systems are typically fractional order,

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but often just the controller is designed
as that, as the plant is modeled with
integer order differintegral operators. A
robust fractional order controller
requires less coefficients than the
integer one [48].

Fractional Order Calculus: Basic Concepts and Engineering ...

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and Fuzzy Energy Abstract: Vascular
diseases cause a wide range of severe

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health problems. Vessel images are often corrupted by intensity inhomogeneity and blurry boundary, which makes it difficult to segment vessel image to identify vascular lesions.

A Robust Active Contour Segmentation Based on Fractional

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a research hotspot. The importance of fractional-order systems (FOSs) increases day after day, and FOSs have obtained much attention [1-4]. Physical systems can be well described by using fractional differential equations, and

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fractional modeling can also be used in robotics, biomedicine, seismic analysis, and other practical fields.

LMI Criteria for Admissibility and Robust Stabilization of ...

In the fields of dynamical systems and control theory, a fractional-order system is a dynamical system that can be

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modeled by a fractional differential equation containing derivatives of non-integer order. Such systems are said to have fractional dynamics.

Fractional-order system - Wikipedia

This book introduces an original fractional calculus methodology (the infinite state approach) which is applied

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to the modeling of fractional order differential equations (FDEs) and systems (FDSs). Its modeling is based on the frequency distributed fractional integrator, while the resulting model corresponds to an integer order and infinite dimension state space representation.

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systems in the fields of analysis, robust
control and path tracking.

**Fractional order differentiation and
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This paper concerns the problem of
stabilization of uncertain fractional-order
chaotic systems in finite time. On the
basis of fractional Lyapunov stability

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theory, a robust finite-time fractional controller is introduced to control chaos of fractional-order chaotic systems in the presence of system uncertainties.

Robust Finite-Time Stabilization of Fractional-Order ...

In this paper, a robust fractional-order PID (FOPID) controller is proposed to

regulate islanded microgrid (MG) frequency. The considered MG is composed of a photovoltaic system, a wind turbine generation, a diesel generator, a battery energy storage system, the control unit, and loads. Some challenges in islanded MGs such as unpredictable variation in output power of renewable energy sources ...

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