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A Robust Active Contour Segmentation Based on Fractional-Order Differentiation and Fuzzy Energy Abstract: Vascular diseases cause a wide range of severe 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.

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Fractional order differentiation and robust control design

...

In this book, the terms “fractional differentiation” or “fractional integration” are used to describe fractional order differential operators. This denomination is the most prevalent, although it is restrictive as it subsumes under a single term differentiation orders that can be integer, fractional, real and/or complex.

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Fractional Order Models | SpringerLink

This paper investigates fractional order differentiation and its applications in digital image processing. ... The experiments show that our model is more accurate and robust than these classical ...

A Robust Active Contour Segmentation Based on Fractional ...

In this paper, we propose FoGDbED, which is a highly-selective and noise-robust ERSF detector combining the Gaussian smooth filtering and the fractional-order differential methodologies based on the fractional-order Gaussian derivative (FoGD) by using the Caputo-Fabrizio (CF)-based fractional-order derivative definition, where a smooth and non ...

FoGDbED: Fractional-order Gaussian derivatives-based

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Fractional Order Control Dynamic systems are typically fractional order, 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 ...

In the fields of dynamical systems and control theory, a

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fractional-order system is a dynamical system that can be modeled by a fractional differential equation containing derivatives of non-integer order. Such systems are said to have fractional dynamics. Derivatives and integrals of fractional orders are used to describe objects that can be characterized by power-law nonlocality, power-law ...

Fractional-order system - Wikipedia

Fractional calculus is a branch of mathematical analysis that studies the several different possibilities of defining real number powers or complex number powers of the differentiation operator $D = ()$, and of the integration operator $J = \int ()$, and developing a calculus for such operators generalizing the classical one.. In this context, the term powers refers to iterative application of a ...

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