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Fractional Order Models | SpringerLink

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A Robust Active Contour Segmentation Based on Fractional ...

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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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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 ...

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.

Fractional Order Differentiation And Robust

Fractional Order Differentiation and Robust Control Design: CRONE, H-infinity and Motion Control (Intelligent Systems, Control and Automation: Science and Engineering) [Jocelyn Sabatier, Patrick Lanusse, Pierre Melchior, Alain Oustaloup] on Amazon.com. *FREE* shipping on qualifying offers. This book provides an overview of the research done and results obtained during the last ten years in the ...

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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 Differentiation and Robust Control Design ...

This book provides an overview of the research done and results obtained during the last ten years in the fields of fractional systems control, fractional PI and PID control, robust and CRONE control, and fractional path planning and path tracking. Coverage features theoretical results,

Fractional Order Differentiation and Robust Control Design ...

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