Applications Of Fuzzy Laplace Transforms Springer

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Applications of fuzzy Laplace transforms | SpringerLink
the fuzzy Laplace transforms for solving first-order fuzzy differential equations under generalized H- differentiability. Unfortunately, they only have defined the fuzzy Laplace

(PDF) Applications of fuzzy Laplace transforms
Applications of fuzzy Laplace transforms

(PDF) Applications of fuzzy Laplace transforms | Soheil ...Applications of fuzzy Laplace transforms Salahshour, S.; Allahviranloo, T. 2012-08-12 00:00:00 A natural way to model dynamic systems under uncertainty is to use fuzzy initial value problems (FIVPs) and related uncertain systems. In this paper, we express the fuzzy Laplace transform and then some of its well-known properties are investigated.

Applications of fuzzy Laplace transforms, Soft Computing ...
Application of fuzzy Laplace transforms for solving fuzzy partial Volterra integro-differential equations Article in Acta Mathematica x(x):x · May 2014 with 185 Reads How we measure 'reads'

Application of fuzzy Laplace transforms for solving fuzzy...
In this paper we propose a fuzzy Laplace transform and under the strongly generalized differentiability concept, we use it in an analytic solution method for some fuzzy differential equations (FDEs). The related theorems and properties are proved in detail and the method is illustrated by solving some examples.

Fuzzy Laplace transforms | Soft Computing - A Fusion of ...
To study a first-order fuzzy initial value problem, in 2010 Allahviranloo and Ahmadi introduced the fuzzy Laplace transform, which was defined by means of the improper fuzzy Riemann integral . Many researchers have studied the properties and applications of the fuzzy Laplace transform , however, the existing results on the fuzzy Laplace transform and their applications were based on Zaheh's decomposition theorem and were formally characterized by the integrals of real-valued functions ...

Fuzzy Laplace transform based on the Henstock integral and ...
The Laplace transform's applications are numerous, ranging from heating, ventilation, and air conditioning systems modeling to modeling radioactive decay in nuclear physics.

Applications of Laplace Transform
Laplace Transform methods have a key role to play in the modern approach to the analysis and design of engineering system. The concepts of Laplace Transforms are applied in the area of science and
technology such as Electric circuit analysis, Communication engineering, Control engineering and Nuclear isphysics etc.

APPLICATIONS OF LAPLACE TRANSFORM IN ENGINEERING FIELDS

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One of the interesting transforms in the theory of fuzzy differential equations is Laplace transforms. The fuzzy Laplace transform method solves FFDEs and corresponding fuzzy initial and boundary value problems. In this way, the Fuzzy Laplace transforms reduce the problem of solving a FFDE to an algebraic problem.

Solving fuzzy fractional differential equations by fuzzy ...

In this paper, we solve the fuzzy heat equations under strongly generalized H-differentiability by fuzzy Laplace transforms. To this end, the original fuzzy heat equation is converted to the corresponding fuzzy two point boundary value problem (FBVP) based on the fuzzy Laplace transform. Then, we will solve the obtained FBVP using characterization theorem. Finally, some numerical examples are given to illustrate the utility of the fuzzy Laplace transform method.

Solving Fuzzy Heat Equation by Fuzzy Laplace Transforms ...

Salahshour and Allahviranloo gave in some applications of fuzzy Laplace transform and studied sufficient conditions ensuring its existence. Recently in [ 12 ], we extended and used the fuzzy Laplace transform method to solve second-order fuzzy linear differential equations under strongly generalized Hukuhara differentiability.

Aumann Fuzzy Improper Integral and Its Application to ...

Laplace transforms are frequently opted for signal processing. Along with the Fourier transform, the Laplace transform is used to study signals in the frequency domain. When there are small frequencies in the signal in the frequency domain then one can expect the signal to be smooth in the time domain.

Laplace Transform: Formula, Conditions, Properties and ...

The Laplace transform has applications throughout probability theory, including first passage times of stochastic processes such as Markov chains, and renewal theory. Of particular use is the ability to recover the cumulative distribution function of a continuous random variable X, by means of the Laplace transform as follows:

Laplace transform -- Wikipedia

Salahshour and Allahviranloo gave in some applications of fuzzy Laplace transform and studied sufficient conditions ensuring its existence. Recently in, we extended and used the fuzzy Laplace transform method to solve second-order fuzzy linear differential equations under strongly generalized Hukuhara differentiability.

Aumann Fuzzy Improper Integral and Its Application to ...

Semi-linear dynamical systems draw attention in many useful real world problems like population model, epidemic model, etc., they also occur in various applications involving parabolic equations.... Fully Fuzzy Semi-linear Dynamical System Solved by Fuzzy Laplace Transform Under Modified Hukuhara Derivative | SpringerLink.

Fully Fuzzy Semi-linear Dynamical System Solved by Fuzzy ...

Firstly, one of the important and interesting transforms in the problems of fuzzy equations is Laplace transforms. The fuzzy Laplace transform method solves fuzzy fractional differential equations and fuzzy boundary and initial value problems [28–35].

On Fuzzy Fractional Laplace Transformation

This classic exposition of Laplace transform theory and its application to the solution of ordinary and partial differential equations is addressed to graduate students in engineering, physics, and applied mathematics. Topics include derivation of Laplace transforms of various functions, the Laplace transform for a finite interval, and other subjects. 1948 edition.

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