

Lyapunov Functionals And Stability Of Stochastic Functional Differential Equations

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Lyapunov Functionals And Stability Of

Lyapunov Functionals and Stability of Stochastic Functional Differential Equations describes the general method of construction of Lyapunov functionals to investigate the stability of differential equations with delays. This work continues and complements the author's previous book Lyapunov Functionals and Stability of Stochastic Difference Equations, where this method is described for discrete- and continuous-time difference equations.

Lyapunov Functionals and Stability of Stochastic ...

Lyapunov Functionals and Stability of Stochastic Difference Equations describes the general method of Lyapunov functionals construction to investigate the stability of discrete- and continuous-time stochastic Volterra difference equations. The method allows the investigation of the degree to which the stability properties of differential equations are preserved in their difference analogues.

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Lyapunov Functionals and Stability of Stochastic ...

Lyapunov Functionals and Stability of Stochastic Functional Differential Equations is primarily addressed to experts in stability theory but will also be of interest to professionals and students in pure and computational mathematics, physics, engineering, medicine, and biology.

Lyapunov Functionals and Stability of Stochastic ...

Lyapunov Functionals and Stability of Stochastic Functional Differential Equations - Kindle edition by Shaikhet, Leonid. Download it once and read it on your Kindle device, PC, phones or tablets. Use features like bookmarks, note taking and highlighting while reading Lyapunov Functionals and Stability of Stochastic Functional Differential Equations.

Lyapunov Functionals and Stability of Stochastic ...

The existence of a Lyapunov functional for (1) has been established for appropriate nonlinearities and under some parameter regimes. Its impor-tance stems from the abundance of results on gradient-like systems, ranging from the asymptotic behaviour of solutions to the Morse structure of the

Lyapunov Functionals and Stability for FitzHugh-Nagumo Systems

Named after the Russian mathematician Aleksandr Mikhailovich Lyapunov, Lyapunov functions (also called the Lyapunov's second method for stability) are important to stability theory of dynamical systems and control theory.

Lyapunov function - Wikipedia

However, there are very few published stability results utilizing the method of Lyapunov functionals. In this paper, we shall employ the method of Lyapunov functionals for the study of exponential stability of impulsive systems with time delay. Several exponential stability criteria are established.

The method of Lyapunov functionals and exponential ...

On the other hand, independently of , the first time when the use of differentiable Lyapunov functionals was introduced for the stability of systems of the form in (2)is in for the single delay case and in for the multiple delay case.

On Lyapunov functionals for linear functional difference ...

Global asymptotic stability is an important issue for wide applications of recurrent neural networks with time-varying delays. The Lyapunov-Krasovskii functional method is a powerful tool to check the global asymptotic stability of a delayed recurrent neural network.

An overview of recent developments in Lyapunov-Krasovskii ...

By constructing a suitable Lyapunov-Krasovskii functional, sufficient conditions for ensuring the asymptotic stability and stabilization of the concerned fuzzy systems have been derived within the framework of linear matrix inequalities (LMIs).

Stability and stabilization of T-S fuzzy systems with time ...

Stability analysis of systems with timevarying delay via a novel Lyapunov functional Abstract: This paper investigates the stability problem for time-varying delay systems. To obtain a larger delay bound, this paper uses the second-order canonical Bessel-Legendre (BL) inequality.

Stability analysis of systems with timevarying delay via a ...

(Zygmunt Hasiewicz, Zentralblatt MATH, Vol. 1255, 2013), From the reviews:The book presents general method of construction of Lyapunov functionals for investigating stability of stochastic difference equations. â€ The book is primarily addressed to mathematicians, experts in stability theory, and professionals in control engineering.

Lyapunov Functionals and Stability of Stochastic ...

The construction of Lyapunov functionals to prove the global stability of fractional dynamic systems has attracted the attention of some authors. Aguila-Camacho et al. established a new lemma for fractional derivative in Caputo sense with order.

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