



perturbation analysis of discrete pdf

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PERTURBATION ANALYSIS (IPA)

PERTURBATION ANALYSIS OF DISCRETE EVENT DYNAMIC SYSTEMS

Perturbation theory leads to an expression for the desired solution in terms of a formal power series in some "small" parameter ϵ known as a perturbation series $\hat{\epsilon}$ that quantifies the deviation from the exactly solvable problem. The leading term in this power series is the solution of the exactly solvable problem, while further terms ...

Perturbation theory - Wikipedia

sales costs. In infinitesimal perturbation analysis is used for optimisation of the failure-prone manufacturing system. The trajectories of buffer level are studied for the continuous and discrete cases and the infinitesimal perturbation analysis estimators are evaluated.

Perturbation analysis for continuous and discrete flow

PERTURBATION ANALYSIS OF THE DISCRETE RICCATI EQUATION M.M. KONSTANTINOV, P. HR. PETKOV AND N. D. CIIRISTOV The sensitivity of the discrete-time matrix Riccati equation relative to perturbations in its coefficient is studied. Both local and non-local perturbation bounds are obtained. In particular the conditioning of the equation is determined.

PERTURBATION ANALYSIS OF THE DISCRETE RICCATI EQUATION

The history of Perturbation Analysis (PA) is intimately related to that of Discrete Event Dynamic Systems (DEDS), starting with a solution of a long-standing problem in the late 1970s and ...

(PDF) Perturbation analysis: A framework for data-driven

Perturbation analysis of the discrete Riccati equation ... The goal of the norm-wise perturbation analysis is to estimate the norm of the perturbation in the solution as a function of the norms of ...

Perturbation analysis of the discrete Riccati equation

Perturbation Analysis: A Framework for Data-Driven Control and Optimization of Discrete Event and Hybrid Systems Y. Wardi C.G. Cassandras X.R. Cao School of Electrical and Computer Engineering, Georgia Institute of Technology, 777 Atlantic Drive, Atlanta, GA 30332, USA. e-mail: ywardi@ece.gatech.edu.

Perturbation Analysis: A Framework for Data-Driven Control

We perform perturbation analysis in the setting of Discrete-time Markov Chains. We consider three basic matrix norms to capture the perturbation distance, and focus on the computational aspect. Our main contributions include algorithms and tight complexity bounds for calculating both non-asymptotic bounds and asymptotic bounds with respect to ...

Perturbation Analysis in Verification of Discrete-Time

Discrete event dynamic systems are studied within the framework of perturbation analysis in this paper.

Perturbation is extended from the event times only to both event times and queue lengths. An approximate technique, full-state perturbation analysis (PA), is developed as an extension of the PA approach.

Full-state perturbation analysis of discrete event dynamic

On the perturbation analysis of discrete-event dynamic systems. Authors; Authors and affiliations ... C., and Suri, R., Stochastic Similarity and Statistical Linearity in Perturbation Analysis of Discrete-Event Systems, SPEEDS: A New Technique for the Analysis and Optimization of ... R., Infinitesimal Perturbation Analysis of Discrete-Event ...

On the perturbation analysis of discrete-event dynamic

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