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In Part II we consider sampled-data models for nonlinear systems. In this case we can only obtain approximate sampled-data models. These discrete-time models are simple and accurate in a well defined sense. For deterministic systems, an insightful observation is that the proposed model contains sampling zero dynamics.

Sampled-data models for linear and nonlinear systems

NONLINEAR SAMPLED-DATA SYSTEMS 9.0 INTRODUCTION All the material of the preceding chapters has been concerned with systems which process signals continuously around the loop. This chapter takes under consideration the describing function analysis of nonlinear systems which at some point process discrete samples of signals.

9 SYSTEMS OSCILLATIONS NONLINEAR SAMPLED-DATA IN

In this paper we extend a sampled data reachability algorithm, first proposed in Ding and Tomlin (2010) and based on a Hamilton-Jacobi (HJ) partial differential equation (PDE) formulation, to synthesize safe but permissive switched feedback control policies for nonlinear continuous state sampled data systems. The contributions of this paper are:

Ensuring Safety of Nonlinear Sampled Data Systems through

Such networked sampled-data systems are modelled as continuous-time nonlinear systems with delayed input.

(PDF) Robust stabilization of nonlinear sampled-data systems

The prevalence of digitally implemented controllers and the fact that most systems of interest in control systems are often non-linear, motivate the area of non-linear sampled-data control systems.

Slow Sampling and Stability of Nonlinear Sampled-Data

Printed in Great Britain Linear Estimator Stabilization of Nonlinear Sampled-data Systems* MOHAMED I. YOUNIS,† WILLIAM G. VOGT and MAGDI S. MAHMOUD The fundamental Luenberger observer for continuous systems can be extended to stabilize linear, and also a class of nonlinear, sampled-data systems by an algorithmic procedure which determines observer constants and feedback gains.

Linear estimator stabilization of nonlinear sampled-data

is referred to as a sampled-data control system or simply a sampled-data system (Chen and Francis 1994); see Fig.1. Nonlinear sampled-data systems arise when either the model of the plant or the controller is nonlinear; otherwise the system is referred to as a linear sampled-data system.

Nonlinear Sampled-Data Systems - Springer

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Index Terms— Input-to-state stability, nonlinear, sampled-data. I. INTRODUCTION A stumbling block in controller design for nonlinear sampled-data control systems is the absence of a good model for the design. Indeed, even if the continuous-time plant model is known, we can not in gen-

A Note on Input-to-State Stabilization for Nonlinear

A.M. Brown /Computer Methods and Programs in Biomedicine 65 (2001) 191–200 193 where y is the data point, y_i is the value of the curve at point y , and SS is the sum of the squares. The best fit of the data is the linear function that has the smallest value for the squared sum (SS) of all the differences.

A step-by-step guide to non-linear regression analysis of

The paper considers nonlinear sampled-data systems having the network described in Fig. 1. In the network NE represents the nonlinear element and the linear part is split into two independent stationary linear parts $PLP-1$ and $LP-2$ by the ideal pulse element IPE .

Investigation of the dynamics of nonlinear sampled-data

approach, the stochastic sampled-data system is transformed into a stochastic continuous time-delay system. State-feedback and output-feedback controller designs for the non-linear stochastic systems are proposed based on the exponential stability condition such that the

403 Sampled-data exponential stabilization of a class of

The paper describes software written for the investigation of the stability of, and limit cycles in, nonlinear discrete systems. The software uses a new theoretical method for the exact evaluation of limit cycles in a discrete system with any nonlinear element.

Limit Cycles In Non Linear Sampled Data Systems

nonlinear model of an inverted pendulum as a tested system. Satisfactory results are obtained. Key-words: - Lyapunov function, Neural Network Controller, Sampled-Data Nonlinear Systems, Stability. I. Introduction In the past decade neural networks have been successfully used for designing control systems [1-4].

Stabilizing Neural Network Controllers for Sampled-Data

in a Two-Axis Model of the Nonlinear Sampled-Data LST System 62 2-1. Introduction 2-2. The Sampled-Data Two-Axis LST System Model and Its Stability Equation 2-3. Exact Solution of the Stability Equation of the Two-Axis Sampled-Data LST System by Numerical-Iterative Techniques 3. Study of Unequal-Amplitude Oscillations in Two-Axis Coupled

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