Robust stability and convexity - an introduction

Springer-Verlag - Robust Control Theory


Robust Fractional order PI Controller for Switching Systems

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The feedback signal is subtracted from the reference to determine the error signal, e.

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It is shown that the positive definiteness of this Lyapunov functional inside impulse intervals is not necessary for proving exponential stability.

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There is a concern for the extremes of operation in an embedded control system that has safety implications. Many control systems are designed concurrently with the plant.

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For a machine learning algorithm to be considered robust, either the testing error has to be consistent with the training error, or the performance is stable after adding some noise to the dataset.

Convex conditions for robust stability analysis and stabilization of linear aperiodic impulsive and sampled

Notes: It is interesting to note that a book of this age covers the general control problem and the state estimation problem, as well as parameter estimation and adaptive control. On the other hand, the control saturation is taken into account from the use of a generalized sector condition.

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By relying on non-conservative algebraic manipulations, these results are further exactly adapted in Section 3 to quadratic robust stabilization using a particular class of state-feedback controllers. Impulsive systems can therefore be identified through the properties of the sequence of impulse instants { t k }, and a relevant stability notion can therefore be considered.

Robust Stability and Convexity

A detailed understanding of a particular technique requires extensive study. For instance, vibration may cause unwanted affects at high frequencies.

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