Accepted Manuscript

Event-Triggered Fault Detection Filtering for Discrete-Time Markovian Jump Systems

Bingna Qiao, Xiaojie Su, Renfeng Jia, Yan Shi, Magdi S. Mahmoud

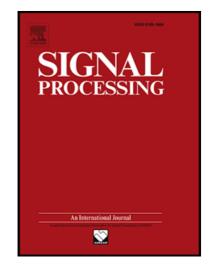
PII:S0165-1684(18)30213-5DOI:10.1016/j.sigpro.2018.06.016Reference:SIGPRO 6853

To appear in: Signal Processing

Received date:26 November 2017Revised date:17 May 2018Accepted date:16 June 2018

Please cite this article as: Bingna Qiao, Xiaojie Su, Renfeng Jia, Yan Shi, Magdi S. Mahmoud, Event-Triggered Fault Detection Filtering for Discrete-Time Markovian Jump Systems, *Signal Processing* (2018), doi: 10.1016/j.sigpro.2018.06.016

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



B. Qiao et al. / Signal Processing (2018) 1-17

Highlights

The main contributions of this paper are highlighted as follows.

- By introducing an event indicator, the sampling frequencies or communication of the systems are reduced, i.e., the signal transmission pressure in the resulting system is reduced.
- The procedure for the required FDF is efficiently handled, and the sufficient conditions for the system to satisfy the stochastic stability and the performance indices of H∞ performance are provided.
- The discriminant conditions in this paper are linear matrix inequality constraints, and the resulting fault detection filtering problem can be addressed by the optimization tool.

Download English Version:

https://daneshyari.com/en/article/6957247

Download Persian Version:

https://daneshyari.com/article/6957247

Daneshyari.com