

Accepted Manuscript

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

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

To appear in: *Signal Processing*

Received date: 26 November 2017
Revised date: 17 May 2018
Accepted 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](https://doi.org/10.1016/j.sigpro.2018.06.016)

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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.

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