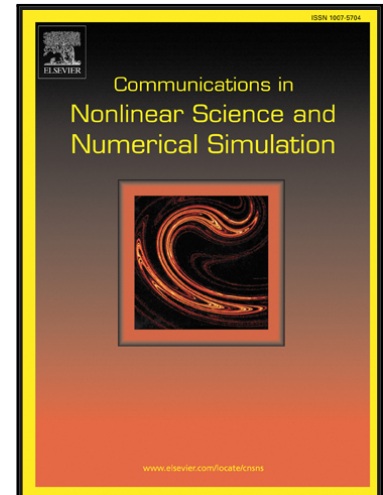


Accepted Manuscript

Stability analysis for impulsive fractional hybrid systems via variational Lyapunov method

Ying Yang, Yong He, Yong Wang, Min Wu

PII: S1007-5704(16)30318-5
DOI: [10.1016/j.cnsns.2016.09.009](https://doi.org/10.1016/j.cnsns.2016.09.009)
Reference: CNSNS 3983



To appear in: *Communications in Nonlinear Science and Numerical Simulation*

Received date: 1 April 2016
Revised date: 13 September 2016
Accepted date: 15 September 2016

Please cite this article as: Ying Yang, Yong He, Yong Wang, Min Wu, Stability analysis for impulsive fractional hybrid systems via variational Lyapunov method, *Communications in Nonlinear Science and Numerical Simulation* (2016), doi: [10.1016/j.cnsns.2016.09.009](https://doi.org/10.1016/j.cnsns.2016.09.009)

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.

Highlights

- Variational Lyapunov method is employed to handle the hybrid term in the system.
- A fractional variational comparison principle is established.
- Stability and instability criteria in terms of two measures are obtained.
- Results generalize corresponding theory of impulsive fractional differential systems.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/5011640>

Download Persian Version:

<https://daneshyari.com/article/5011640>

[Daneshyari.com](https://daneshyari.com)