

Accepted Manuscript

Epidemic outbreaks and its control using a fractional order model with seasonality and stochastic infection

Shaobo He, Santo Banerjee

PII: S0378-4371(18)30121-3
DOI: <https://doi.org/10.1016/j.physa.2018.02.045>
Reference: PHYSA 19165

To appear in: *Physica A*

Received date : 13 October 2017
Revised date : 5 January 2018

Please cite this article as: S. He, S. Banerjee, Epidemic outbreaks and its control using a fractional order model with seasonality and stochastic infection, *Physica A* (2018), <https://doi.org/10.1016/j.physa.2018.02.045>

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:

1. Chaotic scenario can be observed in fractional order Epidemic model with external disturbance.
2. Complexity of the fractional order Epidemic model is analyzed by FuzzyEn.
3. The epidemic is controlled by the hard limiter controller.

Download English Version:

<https://daneshyari.com/en/article/7375576>

Download Persian Version:

<https://daneshyari.com/article/7375576>

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