

## Accepted Manuscript

The threshold of a stochastic avian-human influenza epidemic model with psychological effect

Fengrong Zhang, Xinhong Zhang

PII: S0378-4371(17)31053-1  
DOI: <https://doi.org/10.1016/j.physa.2017.10.043>  
Reference: PHYSA 18757

To appear in: *Physica A*

Received date : 18 May 2017  
Revised date : 26 September 2017

Please cite this article as: F. Zhang, X. Zhang, The threshold of a stochastic avian-human influenza epidemic model with psychological effect, *Physica A* (2017), <https://doi.org/10.1016/j.physa.2017.10.043>

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

- A stochastic avian influenza epidemic model is considered.
- This model has a unique ergodic stationary distribution.
- The threshold which determines the outcome of the disease is obtained.
- Numerical simulations are introduced to illustrate the results.

Download English Version:

<https://daneshyari.com/en/article/7376232>

Download Persian Version:

<https://daneshyari.com/article/7376232>

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