Accepted Manuscript

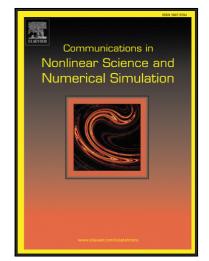
Epidemic spreading on random surfer networks with optimal interaction radius

Yun Feng, Li Ding, Ping Hu

 PII:
 S1007-5704(17)30238-1

 DOI:
 10.1016/j.cnsns.2017.06.031

 Reference:
 CNSNS 4251



To appear in: Communications in Nonlinear Science and Numerical Simulation

Received date:	31 March 2017
Revised date:	4 June 2017
Accepted date:	20 June 2017

Please cite this article as: Yun Feng, Li Ding, Ping Hu, Epidemic spreading on random surfer networks with optimal interaction radius, *Communications in Nonlinear Science and Numerical Simulation* (2017), doi: 10.1016/j.cnsns.2017.06.031

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 model describing epidemic spreading on random surfer heterogeneous networks is established according to the classification of individuals' interaction radii.
- The control strategy based on adjusting individuals' interaction radii is proposed.
- The optimal control problem is investigated by both theoretical analysis and numerical simulations.

A CERTIN

Download English Version:

https://daneshyari.com/en/article/5011332

Download Persian Version:

https://daneshyari.com/article/5011332

Daneshyari.com