

Accepted Manuscript

A novel dynamic model for web malware spreading over scale-free networks

Wanping Liu, Shouming Zhong

PII: S0378-4371(18)30443-6

DOI: <https://doi.org/10.1016/j.physa.2018.04.015>

Reference: PHYSA 19447

To appear in: *Physica A*

Received date: 7 January 2018

Revised date: 10 March 2018

Please cite this article as: W. Liu, S. Zhong, A novel dynamic model for web malware spreading over scale-free networks, *Physica A* (2018), <https://doi.org/10.1016/j.physa.2018.04.015>

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

- The impact of network topology on web malware propagation is addressed.
- A new dynamic model is developed for web malware spreading on scale-free networks.
- The global stability of the malware-free equilibrium is proved.
- Malware spread can be availably controlled by properly adjusting network structure.

Download English Version:

<https://daneshyari.com/en/article/7375150>

Download Persian Version:

<https://daneshyari.com/article/7375150>

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