Accepted Manuscript

Modelling the spread of malware with the influence of heterogeneous immunization

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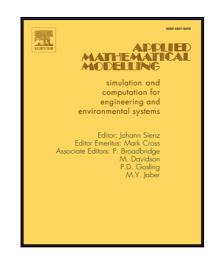
PII: \$0307-904X(15)00648-4 DOI: 10.1016/j.apm.2015.09.105

Reference: APM 10813

To appear in: Applied Mathematical Modelling

Received date: 30 July 2014 Revised date: 19 June 2015

Accepted date: 30 September 2015



Please cite this article as: Wanping Liu, Chao Liu, Xiaoyang Liu, Shaoguo Cui, Xianying Huang, Modelling the spread of malware with the influence of heterogeneous immunization, *Applied Mathematical Modelling* (2015), doi: 10.1016/j.apm.2015.09.105

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ACCEPTED MANUSCRIPT

HIGHLIGHTS

- A novel compartmental mathematical model for malware spread is developed.
- User security awareness is considered in the model in terms of distinct levels of secure protection.
- We analyze the dynamics of the model and the sensitivity analysis of parameters on the threshold.
- A collection of effective measures is recommended for preventing malware spread across the Internet.

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