

## Accepted Manuscript

Proactive defense mechanisms for the software-defined Internet of Things with non-patchable vulnerabilities

Mengmeng Ge, Jin B. Hong, Simon Enoch Yusuf, Dong Seong Kim



PII: S0167-739X(17)31472-3

DOI: <http://dx.doi.org/10.1016/j.future.2017.07.008>

Reference: FUTURE 3538

To appear in: *Future Generation Computer Systems*

Received date : 18 October 2016

Revised date : 8 May 2017

Accepted date : 2 July 2017

Please cite this article as: M. Ge, J.B. Hong, S.E. Yusuf, D.S. Kim, Proactive defense mechanisms for the software-defined Internet of Things with non-patchable vulnerabilities, *Future Generation Computer Systems* (2017), <http://dx.doi.org/10.1016/j.future.2017.07.008>

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.

- Defense mechanisms for the SD-IoT with non-patchable vulnerabilities are proposed.
- Mechanisms change the attack surface of the SD-IoT.
- Reconfiguration algorithms are developed to change the SD-IoT topology.
- The graphical security model analyzes the security and performance of the SD-IoT.
- Mechanisms increase the attack effort and maintain the network performance.

Download English Version:

<https://daneshyari.com/en/article/4950194>

Download Persian Version:

<https://daneshyari.com/article/4950194>

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