

# Accepted Manuscript

Multivariate Models Using MCMCBayes for Web-Browser Vulnerability Discovery

Reuben Johnston , Shahryar Sarkani , Thomas Mazzuchi ,  
Thomas Holzer , Timothy Eveleigh

PII: S0951-8320(17)31385-6  
DOI: [10.1016/j.res.2018.03.024](https://doi.org/10.1016/j.res.2018.03.024)  
Reference: RESS 6108



To appear in: *Reliability Engineering and System Safety*

Received date: 25 November 2017  
Revised date: 11 February 2018  
Accepted date: 20 March 2018

Please cite this article as: Reuben Johnston , Shahryar Sarkani , Thomas Mazzuchi , Thomas Holzer , Timothy Eveleigh , Multivariate Models Using MCMCBayes for Web-Browser Vulnerability Discovery, *Reliability Engineering and System Safety* (2018), doi: [10.1016/j.res.2018.03.024](https://doi.org/10.1016/j.res.2018.03.024)

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

- Outlines "black-box" vulnerability discovery modeling (VDM) technique limitations
- Recaps 46 software release (SR) and security assessment profile (SAP) variables
- Gathers multivariate expert judgment dataset using Cooke's method
- Introduces "clear-box" scaled Bayesian model average (BMA) VDM technique
- Demonstrates scaled BMA VDM technique using several web-browsers

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/7195129>

Download Persian Version:

<https://daneshyari.com/article/7195129>

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