

## Accepted Manuscript

Discrete-time Markovian arrival processes to model multi-state complex systems with loss of units and an indeterminate variable number of repairpersons

Juan Eloy Ruiz-Castro , Mohammed Dawabsha ,  
Francisco Javier Alonso

PII: S0951-8320(17)31212-7  
DOI: [10.1016/j.ress.2018.02.019](https://doi.org/10.1016/j.ress.2018.02.019)  
Reference: RESS 6077

To appear in: *Reliability Engineering and System Safety*

Received date: 16 October 2017  
Revised date: 6 February 2018  
Accepted date: 13 February 2018

Please cite this article as: Juan Eloy Ruiz-Castro , Mohammed Dawabsha , Francisco Javier Alonso , Discrete-time Markovian arrival processes to model multi-state complex systems with loss of units and an indeterminate variable number of repairpersons, *Reliability Engineering and System Safety* (2018), doi: [10.1016/j.ress.2018.02.019](https://doi.org/10.1016/j.ress.2018.02.019)

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

- Multi-state complex systems are modelled in an algorithmic and computational form
- Internal failures and external shocks with multiple consequences are assumed
- Multiple and variable number of repairpersons are assumed in the repair facility
- When a non-repairable failure occurs, internal and/or external, the unit is removed
- The performance-profitable is analyzed through Marked Markovian Arrival Processes

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/7195206>

Download Persian Version:

<https://daneshyari.com/article/7195206>

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