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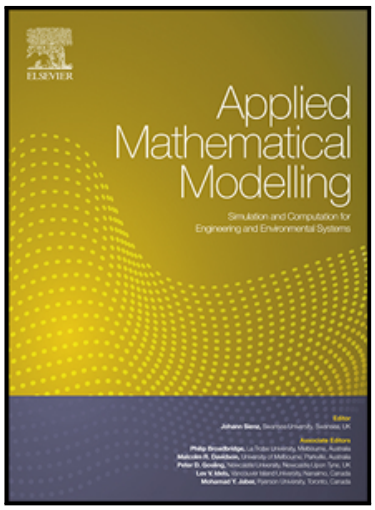

Distribution modeling for reliability analysis: Impact of multiple dependences and probability model selection

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PII: S0307-904X(18)30047-7
DOI: 10.1016/j.apm.2018.01.035
Reference: APM 12151

To appear in: *Applied Mathematical Modelling*

Received date: 8 August 2017
Revised date: 22 January 2018
Accepted date: 30 January 2018

Please cite this article as: Fan Wang , Heng Li , Distribution modeling for reliability analysis: Impact of multiple dependences and probability model selection, *Applied Mathematical Modelling* (2018), doi: 10.1016/j.apm.2018.01.035

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Distribution modeling for reliability analysis: Impact of multiple dependences and probability model selection

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Highlights

Vine structured copula model is used to represent multivariate distributions

Copula parameters are determined from correlations by moment matching technique

The need for accurate dependence characterization is demonstrated in multi-dimensions

A method of selecting the optimal dependence and distribution model is provided

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