Accepted Manuscript

# Sliced inverse regression-based sparse polynomial chaos expansions for reliability analysis in high dimensions

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PII: S0951-8320(16)30864-X
DOI: 10.1016/j.ress.2017.06.026
Reference: RESS 5893

To appear in: *Reliability Engineering and System Safety*

Received date: 23 November 2016
Revised date: 19 June 2017
Accepted date: 25 June 2017

Please cite this article as: Qiujing Pan , Daniel Dias , Sliced inverse regression-based sparse polynomial chaos expansions for reliability analysis in high dimensions, *Reliability Engineering and System Safety* (2017), doi: 10.1016/j.ress.2017.06.026

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Hihlights

- Combination of sliced inverse regression with sparse polynomial chaos expansion.
- Three representative examples (random variables from 6 to 300) are provided
- SIR-SPCE is an efficient approach for high-dimensional problems.

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