### **Accepted Manuscript**

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

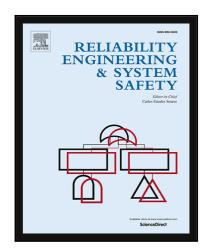
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PII: S0951-8320(16)30864-X DOI: 10.1016/j.ress.2017.06.026

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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#### ACCEPTED MANUSCRIPT

#### 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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