

Accepted Manuscript

Hybrid preventive maintenance of competing failures under random environment

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PII: S0951-8320(17)31047-5
DOI: [10.1016/j.ress.2018.02.017](https://doi.org/10.1016/j.ress.2018.02.017)
Reference: RESS 6075



To appear in: *Reliability Engineering and System Safety*

Received date: 3 September 2017
Revised date: 3 February 2018
Accepted date: 13 February 2018

Please cite this article as: Li Yang , Yu Zhao , Rui Peng , Xiaobing Ma , Hybrid preventive maintenance of competing failures under random environment, *Reliability Engineering and System Safety* (2018), doi: [10.1016/j.ress.2018.02.017](https://doi.org/10.1016/j.ress.2018.02.017)

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Highlight

- A novel competing failure process under random operating environment is studied.
- The impacts of shock damage on both degradation and hazard rate are investigated.
- A hybrid maintenance strategy incorporating age-based and condition-based maintenance is proposed.
- A non-constant control limit is provided to avoid over-maintenance.
- The superiority of the proposed maintenance strategy is validated by its comparison with some advanced strategies.

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