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Hybrid preventive maintenance of competing failures under random environment

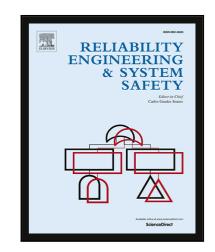
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Highlight

- 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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