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Bivariate preventive maintenance of systems with lifetimes dependent on a random shock process

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Highlights

- This paper discusses preventive replacement for a system affected by the external shock process.
- A system is replaced either on failure, or at T , or on the m -th shock, whichever comes first.
- It provides a comprehensive insight into the preventive maintenance models with two scales.
- By a shock, the failure rate is increased and the output function is decreased.

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