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Joint predictive maintenance and inventory strategy for multi-component systems using Birnbaum's structural importance

Kim-Anh Nguyen, Phuc Do, Antoine Grall

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Highlights

- A joint predictive maintenance and inventory policy for complex structure systems is proposed
- Maintenance and inventory decision-making based on structural importance measure and prognostic condition index
- Opportunistic maintenance decision rules based on the criticality level and their spare parts availability
- Both positive and negative dependence of maintenance and inventory activities are investigated
- A cost model and Monte Carlo simulation are developed for optimization process.

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