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Genetic algorithms for condition-based maintenance optimization under uncertainty

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Highlights

1) We want to optimize a CBM policy when the maintenance model parameters are uncertain.
2) The uncertainty is Monte-Carlo propagated onto the performance indicators (unavailability and cost).
3) The objective functions are Cumulative Distribution Functions.
4) An extension of Multi-Objective Genetic Algorithms is proposed to optimize maintenance.
5) The technique is compared to a CVar based MOGA approach.

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