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## **Imperfect condition-based maintenance for a gamma degradation process in presence of unknown parameters**

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A system subject to degradation is considered. The degradation is modelled by a gamma process. A condition-based maintenance policy with perfect corrective and an imperfect preventive actions is proposed. The maintenance cost is derived considering a Markov-renewal process. The statistical inference of the degradation and maintenance parameters by the maximum likelihood method is proposed. A sensibility analysis to different parameters is carried out and the perspectives are detailed.

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