



# Dynamic Bayesian Network for Reliability of Mechatronic System with Taking Account the Multi-Domain Interaction

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Mots-clés	Dynamic Bayesian Network [5], Dynamic Hybrid System [6], Mechatronics [7], Multi-domain Interactions [8], predictive reliability [9], Quantitative modeling [10]
Résumé en anglais	<p>This article presents a methodology for reliability prediction during the design phase of mechatronic system considered as an interactive dynamic system. The difficulty in modeling reliability of a mechatronic system is mainly due to failures related to the interaction between the different domains called Multi-domain interaction. Therefore in this paper, after a presentation of the state of the art of mechatronic systems reliability estimation methods, we propose a original approach by representing multi domain interactions by influential factors in the dysfunctional modeled by Dynamic Bayesian Networks. A case study demonstrates the interest of the proposed approach.</p>
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## Liens

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