



A Bayesian network dealing with measurements and residuals for system monitoring

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Auteur	Atoui, Mohamed Amine [1], Verron, Sylvain [2], Kobi, Abdessamad [3]
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Mots-clés	Bayesian [4], data-driven [5], Model [6], Monitoring [7]
Résumé en anglais	<p>The purpose of this paper is to present an original method for system monitoring with Bayesian networks. Our proposal is to associate a data-driven method to another model-based under a common tool. The two methods are first modeled under a Bayesian network (conditional Gaussian network), and then combined to evaluate the system state. In the proposed framework the residuals and measures coexist under a probabilistic framework. This approach is tested on a simulation of a water heater process under some various circumstances and shows better results than the two methods used alone.</p>
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Liens

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- [3] <http://okina.univ-angers.fr/a.kobi/publications>
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