



Fault detection and identification with a new feature selection based on mutual information

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Auteur	Verron, Sylvain [1], Tiplica, Téodor [2], Kobi, Abdessamad [3]
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Mots-clés	Discriminant [4], FDI [5], Mutual [6]
Résumé en anglais	This paper presents a fault diagnosis procedure based on discriminant analysis and mutual information. In order to obtain good classification performances, a selection of important features is done with a new developed algorithm based on the mutual information between variables. The application of the new fault diagnosis procedure on a benchmark problem, the Tennessee Eastman Process, shows better results than other well known published methods.
URL de la notice	http://okina.univ-angers.fr/publications/ua1536 [7]
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- [2] <http://okina.univ-angers.fr/teodor.tiplica/publications>
- [3] <http://okina.univ-angers.fr/a.kobi/publications>
- [4] [http://okina.univ-angers.fr/publications?f\[keyword\]=4646](http://okina.univ-angers.fr/publications?f[keyword]=4646)
- [5] [http://okina.univ-angers.fr/publications?f\[keyword\]=3792](http://okina.univ-angers.fr/publications?f[keyword]=3792)
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