

# STATE OF THE ART ON FAULT DETECTION TECHNIQUES

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***Abstract.*** The fast and accurate detection of faults is one of the most important issues in all industrial sectors. There are several different approaches that can be used for fault detection each having its own requirements on the system to which it will be applied and its advantages and disadvantages both in terms of accuracy and in terms of execution speed. That in order to select the proper method for a specific system or process, one should at first be aware of the available faults detection methods and their requirements, advantages and disadvantages. This paper aims to provide a useful guide for the selection of the proper method by presenting an overview of the state of the art on fault detection technique