

Background

Using failure symptoms measured by sensors on the system a fault diagnostics engine is used to obtain a list of the failures that are potential causes of these symptoms. The main benefits include reducing maintenance downtime and ability to manage failure consequences.

Objective

- (i) Build a cause-effect model to represent a relationship between failures and their symptoms.
- (ii) Analyse Bayesian Belief Networks and rank potential failures due to symptoms.
- (iii) Take account of multiple failures and system dynamics.

