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Reliability testing of repairable systems available in diverse configuration variants

Reliability testing is one of the last and most expensive steps in the development process of a complex technical repairable system. It ensures a certain level of reliability prior to market release and provides the basis for estimation of expected maintenance and warranty costs. Depending on system complexity and diversity of available configurations, current industrial practice is to select some critical variants and carry out the testing for this choice without consideration of transferability of test contributions and lack of testing for less critical variants.
This talk discusses a strategy for empirical reliability testing of repairable systems that are available in diverse configurations. It shows how and to which extent test contributions for different configuration variants can be combined efficiently and considered in stochastic reliability models. An example from the automotive industry illustrates the practical applicability.

Special/ Invited session

Classification

Mainly application

Keywords

reliability, testing, repairable system

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