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Reliability Verification with Economic Constraints

The verification of a reliability target is one of the last and most expensive steps in the development process of a technical product. It ensures a certain level of product reliability prior to market release and provides a limit for expected warranty costs. Depending on product complexity and diversity as well as production volumes, a sufficient verification of a challenging target may become economically impossible. In such cases, current industrial practice is to select critical product variants and determine for this choice an unconstrained reliability verification plan without consideration of economic consequences.

This talk discusses the role and importance of reliability verification in product development and shows how economic constraints can be considered in stochastic reliability models for planning of optimal reliability verification. An example from the automotive industry illustrates the practical applicability of this innovative approach.

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