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Simulating a key performance index for a family of future products

A complex system is currently under validation as implemented in its initial instantiation. The technical bet regards more than doubling a key performance at parity of the other ones. The preliminary estimation has been performed by simulation in the concept's exploration phase by risk reduction by Fault Tree Analysis. The current studies are devoted to allowing the estimation of the probability of success of a full family of products by combining the system structure and flows by Design Structure Matrices with Bayesian propagation. The proposal for a presentation regards the rationales, the opportunities and the consequences of the methodological estimation evolution. The potentialities, the limits of the potential alternatives are proposed for sharing and discussion.

Special/ Invited session

Classification

Both methodology and application

Keywords

KPI modelling FTA DSM Bayesian propagation

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