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The principle of EBAM is to use all available information in form of statistical data or expert knowledge to frame the problem as a mathematical model which can be solved by optimization techniques. As we employ complex reliability and maintenance models it becomes difficult to find the necessary statistical data in appropriate formats.

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Y1 - 2018/7. N2 - In this study, an expert knowledge-based model, a logistic regression model, and an artificial neural network model were compared for their accuracy and portability in landslide susceptibility mapping. Two study areas (the Kaixian and the Three Gorges areas in China) were selected for this comparison based on their well-known, high landslide hazard.

~~A comparative study of an expert knowledge-based model and ...~~

In this context, reliability modeling is the process of constructing a mathematical model that is used to estimate the reliability characteristics of a product. Reliability Prediction Traditionally, reliability predictions have been predominantly based on the results of a formal test program. While testing is a more than acceptable means of estimating a system’s performance in the field, it typically cannot be performed until a prototype can be constructed from a fairly mature design.

~~Reliability Modeling and Prediction - RMQSI Knowledge Center~~

Expert Knowledge Based Reliability Models, by Zuashkiani, Ali (2008) Paperback: Books - Amazon.ca

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Mixing Reliability Prediction Models Maximizes Accuracy. Overcome Component Limitations, Better Reflect Past Experiences, and Achieve Superior Predictions. Although many models are available for performing reliability prediction analyses, each of these models was originally created with a particular application in mind. This document describes the most widely used reliability prediction models in terms of their intended applications, noting both their advantages and disadvantages.

~~Mixing Reliability Prediction Models Maximizes Accuracy~~

Abstract. An important aspect of knowledge management is the implementation of methods to share the idiosyncratic knowledge of expert practitioners within an organization. In order to make such knowledge sharable, it is necessary to have both an effective elicitation method and a useful representation scheme.

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Reliability Modeling. $ 10.00. While the benefits of the design for reliability (DFR) process are well understood in the engineering community, the application of these techniques becomes quite difficult as modern systems continue to evolve into increasingly complex designs. One of the most effective means of overcoming these challenges is the use of system modeling techniques.

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1 USING EXPERT MODELS IN HUMAN RELIABILITY ANALYSIS – A DEPENDENCE ASSESSMENT METHOD BASED ON FUZZY LOGIC L. Podofillini, V.N. Dang, E. Zio, P. Baraldi, M. Librizzi Abstract In Human Reliability Analysis (HRA), dependence analysis refers to assessing the

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Eq 4 is a common way to compute path reliability in most path-based reliability approaches [20,36,37]. Algorithm 1 Component reliability estimation algorithm: CR_Estimate. 1. function computRc(Graph CPDG, maximum expected iteration max_it) 2. Initialization: pthTemp = 1,transTemp = 1, it_no = 0; Rtemp = 0; 3. s = Stack.Create;

~~Technique for Early Reliability Prediction of Software ...~~

From a deployment point of view, an expert system would be an adequate option for a call center (refer to the example in Chapter 2), in which non-expert support staff could access rule-based expert knowledge and predictive models as support for decision-making processes (for example, evaluating the credit-worthiness of a client or of a possibly fraudulent request), online and in real time. As ...

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Expert knowledge is composed of both declarative and procedural knowledge and is organized into knowledge structures (e.g., chunks and schemas) that facilitate the categorization and construction of a mental representation of the problem, support the selection of appropriate strategies and procedures, provide constraints to evaluate problem-solving progress, and provide a framework to effectively store new information about the domain.