Decision Analysis and Validation of Value Focused Thinking Decision Models Using Multivariate Techniques

By James L. Pruitt

Biblioscholar Dez 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x3 mm. This item is printed on demand - Print on Demand Neuware - Decision Analysis (DA) is a useful tool to assist decision makers (DM) with difficult and complex decisions using mathematical models. Value Focused Thinking (VFT) models are a useful DA tool widely employed in the Air Force. However, VFT models are rarely validated. This research will attempt to validate any given VFT model and provide insight into the discriminating attributes of the alternative set. First, a two group discriminant analysis is applied the alternative set given the prior knowledge of the selected alternatives. Next, compromise programming is used attempt to minimize the distance between the posterior probability of an alternative being selected and its current weighted value by varying the weights. This set of optimized weights is then used in the two group discriminant analysis to classify the alternative set and attempt to validate the VFT model by selecting the same subset of alternatives chosen by the DM. 56 pp. Englisch.

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