

A Study Of Trader Evaluation Based On Case Of A New Sporting Goods Development Factory

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ABSTRACT

It is an important issue for the sport and toy developing factories to evaluate and select proper trader partners efficiently and rationally. The purpose of this thesis is to present a formal traders evaluation process to assist the sport and toy developing factories to select the suitable traders in order to improve the competitive capability of the supply chain and the mutual benefits. This research uses AHP methodology and fuzzy multi-criteria theory as the theoretical foundation to support the proposed traders evaluation process. The required quantitative and qualitative criteria were analyzed and identified in the first stage. Then, the Expert Choice was adopted as the tool to determine the progressing priorities for the all criteria. The qualitative criteria are represented by triangular fuzzy number and are translated to the crisp value by using COA approach to obtain BNP crisp values. All crisp criteria values are weighted and then are sorted by using the method of TOPSIS. The ranking of all traders can be listed and decision of selecting the most appropriate traders can be made efficiently.

Keywords : sport and toy+trader+AHP+COA+TOPSIS

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