

Applying Fuzzy Multi-Objective Game on Supplier Selection Problem--A Case Study in Aerospace Industry

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ABSTRACT

The selection of Vendor is always an important issue in supply chain management (SCM). This paper of vendor selection art assumed enterprises and their suppliers are on the situation that they had not stable relationship. A MADM method is a procedure that specifies how attribute information is to be processed in order to arrive at a choice. Vendor selection problem is complicated with its multiple attribute decision making problem. As to the Aerospace Industry in Taiwan, the insufficient orders made it difficult to build a long-term and stable relationship between the enterprise and the vendor. Enterprise can only rely its vendor merely by bidding price. The delivery is often vendor merely by vendor insufficient capacity. According to the aforementioned reasons, our study establish a design support system program for vendor selection framework that facilitates the Aerospace Industry. This framework is based on the fuzzy multi-objective game and Multi-attribute decision making (MADM).

Keywords : MADM ; FMOP ; Game Theory

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