FUZZY METRICS IN SUPPLY CHAIN AGILITY

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ABSTRACT

Changing customer requirements and technological imbalance force manufacturers to develop agile supply chain capabilities in order to remain competitive. Several companies have stressed on greener areas like flexibility and agility in order to respond to the unique needs of customers and markets. In order to measure the levels of agility and make comparisons for future developments, enterprises now look for effective performance measures. -The process of choosing selective supply chain performance measures is growing cumbersome due to the complexity of the production systems. This paper focuses an overview of the measures of performance and evaluation of these measures using fuzzy model systems. Fuzzy set theory is introduced to address the practical situation in judgment and evaluation processes prevailing in modern day manufacturing. The outline of the proposed method is highlighted with some suggestions and a simple case.

KEYWORDS: Flexibility, Agility, Performance Measures, Fuzzy Set Theory, Supply Chain