

عنوان مقاله:

An Integrated Model for Continuous and Simultaneous Performance Improvement: A SCOR-Based Supply Chain Decision Alignment

محل انتشار:

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خلاصه مقاله:

This article develops an integrated model of transmitting strategies and operational activities to enhance the efficiency of supply chain management. As the second objective, this paper aims to improve supply chain performance management (SCPM) by employing proper decision-making approaches. The proposed model optimizes the performance indicator based on SCOR metrics. A process-based method is utilized for high-level decisions, while a mathematical programming method is proposed for low-level decisions. The suggested operational model takes some major supply chain properties such as multiple suppliers, multiple plants, multiple materials, and multiple produced items over several time periods into account. To solve the operational multi-objective optimization model, a goal programming approach is applied. The computational results are explained in terms of a numerical example, and a sensitivity analysis is performed to investigate how the performance of the supply chain is influenced by strategic scenario planning.

کلمات کلیدی:

Decision Alignment, Supply Chain Management, Performance Measurement, Goal Programming, SCOR Model, Decision alignment, Multi objective

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