

## عنوان مقاله:

Modeling a Five-Echelon Supply Chain Network under Disruption with Considering Hub Centers by Scenario-Based Approach

## محل انتشار:

دوماهنامه نخبگان علوم و مهندسی، دوره 4، شماره 6 (سال: 1398)

تعداد صفحات اصل مقاله: 9

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## خلاصه مقاله:

The supply chain is a complex logistics system. In this chain, the raw material is converted to the final product and is provided to the end consumer. Intense competition in global markets and high customer attention to factors such as price, quality, delivery time and product diversity, have led investors to focus on supply chain management. As a result, choosing the supplier and order allocation of each supplier's order is very important. This paper aims at designing a five-echelon supply chain structure including multiple suppliers, multiple producers, multiple distributors and multiple customers for determining the optimal order of each product in a multi-objective and multi-period problem. Also, with regard to importance of distribution centers, these parts of the supply chain are considered hub centers. The considered multiple objective functions include minimizing total purchase, transportation costs, shortage cost and holding cost, also maximizing total score of each one.

## کلمات کلیدی:

Production–distribution, Reliability, Quota allocation, Hub location, Supply chain

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