نویسندگان:

Amir Fatehi Kivi - *Young researchers and elite clud, Khalkhal branch Islamic azad university, khalkhal, iran,*

Esmaeil Mehdizadeh - *Islamic Azad University, Qazvin Branch*

Reza Tavakkoli-Moghaddam - *North Karegar Street School of Industrial Engineering, College of Engineering, University of Tehran*

Seyed Esmaeil Najafi - *Department of Industrial Engineering, Science and Research Branch, Islamic Azad University, Tehran, Iran*

خلاصه مقاله:

The supply chain network design not only assists organizations production process (e.g.,plan, control and execute a product's flow) but also ensure what is the growing need for companies in a longterm. This paper develops a three-echelon supply chain network problem including multiple plants, multiple distributors, and multiple retailers with amulti-mode demand satisfaction policy inside of production planning and maintenance. The problem is formulated as a mixed-integer linear programming model. Because of its NP-hardness, three meta-heuristic algorithms(i.e., tabu search, harmony search and genetic algorithm) are used to solve the given problem. Also, theTaguchi method is used to choose the best levels of the parameters of the proposedmeta-heuristic algorithms. The results show that HS has abetter solution quality than two other algorithms.

کلمات کلیدی:

Supply chain network design, Multi-mode demand, Tabu search, Harmony search, Genetic Algorithm

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1170504