

عنوان مقاله:

Design and Optimization Sustainable Resiliency for Waste Network

محل انتشار:

سیزدهمین کنفرانس بین المللی انجمن ایرانی تحقیق در عملیات (سال: 1399)

تعداد صفحات اصل مقاله: 8

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خلاصه مقاله:

Rapid progress in technology and Population increase are a primary cause of acceleration in the rate of the industrial hazardous waste generation all over the world. Management of hazardous waste has magnetized researcher's attention because of its considerable impacts on the economy, environment and the ecology. This study investigates the network design problem arising from the hazardous waste management. Therefore, in this study, we intend to manage hospital waste by presenting a combination of location, routing and scheduling issues. In this regard, a multi-objective mixed integer model is proposed to design a sustainable supply chain network. Then the proposed multi-objective model solves as single-objective model using LP-metric method. Finally, sensitivity analysis done in parameters of the first objective function on demand of treated products and whole quantity of waste and results are reported. Results showed with increasing amount of parameters the value of first objective function increased.

کلمات کلیدی:

Hazardous waste, Multi-objective optimization, LP-Metric, Sustainable

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