

عنوان مقاله:

Convergence and optimization for cyclical production in the process of pharmaceutical packaging and drug preparation operations with meta-heuristic algorithms and modeling with genetic algorithm - neural network

محل انتشار:

سومین کنفرانس بین المللی پژوهش ها و دستاوردهای نو در علوم، مهندسی و فناوری های نوین (سال: 1402)

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خلاصه مقاله:

The aim of this study is to investigate the centralized drug optimization based on a capacity-based joint filling and delivery strategy. A mixed integer non-linear programming model is proposed to describe the operational process of drug manufacturing. The goal is to find an optimal completion schedule. A new hybrid optimization, consisting of an innovative algorithm and a design-constrained heuristic, is developed to solve the proposed drug-focused optimization model. The algorithm includes a modified genetic operation and a local search method, and constrained heuristics are used to significantly reduce the decision space. Experimental results showed that the proposed optimization can effectively obtain high-quality solutions, as shown by a comparative numerical study.

کلمات کلیدی:

metaheuristic, Response Level (RS), genetic algorithm, Optimization

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