عنوان مقاله:

A hybrid algorithm based on simulated annealing and genetic algorithm for multi response surface optimization

محل انتشار:

هشتمین کنفرانس بین المللی مهندسی صنایع (سال: 1391)

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خلاصه مقاله:

Response surface methodology is a common tool in optimizing processes and products designs. However, in real world manufacturing problems it is required to determineprocess variables such that more than one quality characteristics be optimized simultaneously. This is called a multiresponsesurface (MRS) optimization problem. In dealing with nonlinear, complex surfaces, exact optimization algorithms can notsufficiently find the optimum. This study presents a new hybrid metaheuristic for optimizing the overall desirability function. The performance of the proposed algorithm is evaluated by an example from the literature. Results indicate the outperformance of the proposed hybrid algorithm

کلمات کلیدی:

Multiresponse surface optimization; Hybrid metaheuristic; Simulated annealing; Genetic algorithm; Process optimization ; Quality improvement

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