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عنوان مقاله:

Improved Hill Climbing and Simulated Annealing Algorithms for Size Optimization of Trusses

محل انتشار:

هفتمین کنگره ملی مهندسی عمران (سال: 1392)

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خلاصه مقاله:

Truss optimization problem has been vastly studied during the past 30 years and many different methods have been proposed for this problem. Even though most of these methods assume that the design variables are continuously valued, in reality, the design variables of optimization problems such as cross-sectional areas are discretely valued. In this paper, an improved hill climbing and an improved simulated annealing algorithm have been proposed to solve the truss optimization problem with discrete values for cross-sectional areas. Obtained results have been compared to other methods in the literature and the comparison represents that the proposed methods can be used more efficiently than other proposed methods.

کلمات کلیدی:

Size Optimization of Trusses, Hill Climbing, Simulated Annealing

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