### عنوان مقاله:

SA-EVPS ALGORITHM FOR DISCRETE SIZE OPTIMIZATION OF THE DAY-BAR SPATIAL TRUSS STRUCTURE

# محل انتشار:

مجله بهینه سازی در مهندسی عمران, دوره 13, شماره 2 (سال: 1402)

تعداد صفحات اصل مقاله: 11

### نویسندگان: M. Paknahad

M. Paknahad P. Hosseini S.J.S. Hakim

#### خلاصه مقاله:

Metaheuristic algorithms have become increasingly popular in recent years as a method for determining the optimal design of structures. Nowadays, approximate optimization methods are widely used. This study utilized the Self Adaptive Enhanced Vibrating Particle System (SA-EVPS) algorithm as an approximate optimization method, since the EVPS algorithm requires experimental parameters. As a well-known and large-scale structure, the ΔΛΥ-bar spatial truss structure was analyzed using the finite element method, and optimization processes were implemented using MATLAB. In order to obtain weight optimization, the self-adaptive enhanced vibration particle system (SA-EVPS) is .compared with the EVPS algorithm

# کلمات کلیدی:

.Size optimization, Self-Adaptive algorithm, SA-EVPS algorithm, ΔΛΥ-bar spatial truss, discrete optimization problems

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1831598

