Crawford B. Soto R. Olivares-Suárez M. Paredes F. The non-unicost Set Covering Problem is a well-known NP-hard problem with many practical applications. In this work, a new approach based on Binary Firefly Algorithm is proposed to solve this problem. The Firefly Algorithm has attracted much attention and has been applied to many optimization problems. Here, we demonstrate that is also able to produce very competitive results solving the portfolio of set covering problems from the OR-Library. © Springer International Publishing Switzerland 2014. Binary firefly algorithm Metaheuristic Set covering problem Algorithms Bioluminescence Computational complexity Factory automation Optimization Social networking (online) Firefly algorithms Metaheuristic New approaches Optimization problems Set covering problem Problem solving

A binary firefly algorithm for the set covering problem