

# Binary bat algorithms for the set covering problem [Algoritmos Murciélago Binarios para el Problema de Cobertura de Conjuntos]

Crawford B.

Soto R.

Olea C.

Johnson F.

Paredes F.

In the present paper, we resolve the Set Covering Problem using the recently presented meta-heuristic named Binary Bat Algorithm. We use two variations of this algorithm. The Binary Bat Algorithm algorithm was created observing how the bats evade obstacles and find preys to eat, the use of echo-localization is how they do it. We made some changes using two different transfer and two discretization techniques to solve the problem. © 2015 AISTI.

Binary Bat Optimization Algorithm

Combinatorial Optimization

Metaheuristic

Set Covering Problem

Algorithms

Bins

Combinatorial optimization

Information systems

Optimization

Bat algorithms

Discretizations

Metaheuristic

Optimization algorithms

Set covering problem

Problem solving