An artificial bee colony algorithm for the set covering problem

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In this paper, we present a new Artificial Bee Colony algorithm to solve the non-unicost Set Covering Problem. The Artificial Bee Colony algorithm is a recent metaheuristic technique based on the intelligent foraging behavior of honey bee swarm. Computational results show that Artificial Bee Colony algorithm is competitive in terms of solution quality with other metaheuristic approaches for the Set Covering Problem problem. © Springer International Publishing Switzerland 2014.

Artificial bee colony algorithm

Combinatorial optimization

Heuristic

Set covering problem

Algorithms

Combinatorial optimization

Optimization

Social networking (online)

Artificial bee colony algorithms

Computational results

Foraging behaviors

Heuristic

Honey bee swarms

Meta-heuristic approach

Meta-heuristic techniques

Set covering problem

Evolutionary algorithms