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The Set Covering Problem (SCP) has long been concentrating the interest of many researchers in
the field of Combinatorial Optimization. SCP is a 0?1 integer programming problem that consists in
finding a set of solutions which allow to cover a set of needs at the lowest cost possible. There are
many applications of these kind of problems, the main ones are: location of services, files selection
in a data bank, simplification of boolean expressions, balancing production lines, among others.
Different metaheuristics have been proposed to solve it. Here, we present the possibilities to solve
Set Covering Problems with Harmony Search. © Springer International Publishing Switzerland 2015.
Harmony search algorithm
Metaheuristics
Set covering problem
Algorithms
Combinatorial optimization
Factory automation
Heuristic algorithms
Human computer interaction
Integer programming
Learning algorithms
Optimization
Boolean expressions
Harmony search

Recent harmony search algorithms for 0?1 optimization problems

Integer programming problems
Meta heuristics
Optimization problems
Production line
Set covering problem
Problem solving

Harmony search algorithms