

A binary fruit fly optimization algorithm to solve the set covering problem

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The Set Covering Problem (SCP) is a well known NP-hard problem with many practical applications.

In this work binary fruit fly optimization algorithms (bFFOA) were used to solve this problem using different binarization methods. The bFFOA is based on the food finding behavior of the fruit flies

using osphresis and vision. The experimental results show the effectiveness of our algorithms

producing competitive results when solve the benchmarks of SCP from the OR-Library. © Springer

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Combinatorial optimization problem

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