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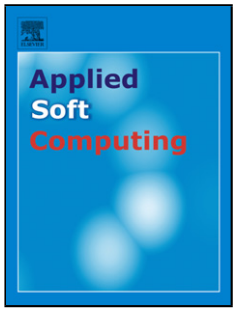

Title: Tackling global optimization problems with a novel algorithm – Mouth Brooding Fish algorithm

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1- A new nature inspired novel optimization based on Mouth Brooding Fish life cycle called MBF algorithm.

2- All the features of MBF like pseudo code and parameters tuning have been discussed.

3- MBF algorithm is compared with advanced (CMA-ES, JADE, SaDE, GL-25) algorithms.

4- Using a wide range of single objective optimization functions CEC2014 and CEC2013 to show the better demonstration of MBF algorithm performance.

5- The comparison between MBF algorithm and other algorithms contains 10, 30, and 50-dimensional problems.

6- The out-performance of MBF algorithm calculated by a Chess Rating System for Evolutionary Algorithms (CRS4EAs).

7- The results in each section of comparison show that MBF has potential against advanced algorithms.

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