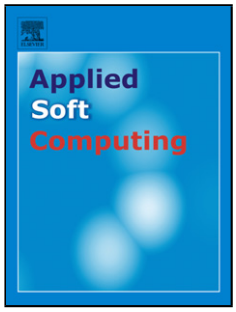

Title: A Novel Hybrid Algorithm Based on Biogeography-Based Optimization and Grey Wolf Optimizer

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Firstly, BBO and GWO are improved respectively.

Then, improved BBO and opposition learning based GWO are hybridized by a new strategy, named single-dimensional and all-dimensional alternating strategy, to formulate HBBOG.

A large number of experiments are made on a set of various kinds of benchmark functions and CEC2014 test set. HBBOG is also applied to clustering optimization.