

Accepted Manuscript

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

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PII: S1568-4946(18)30108-X
DOI: <https://doi.org/doi:10.1016/j.asoc.2018.02.049>
Reference: ASOC 4741

To appear in: *Applied Soft Computing*

Received date: 31-7-2017
Revised date: 19-1-2018
Accepted date: 24-2-2018

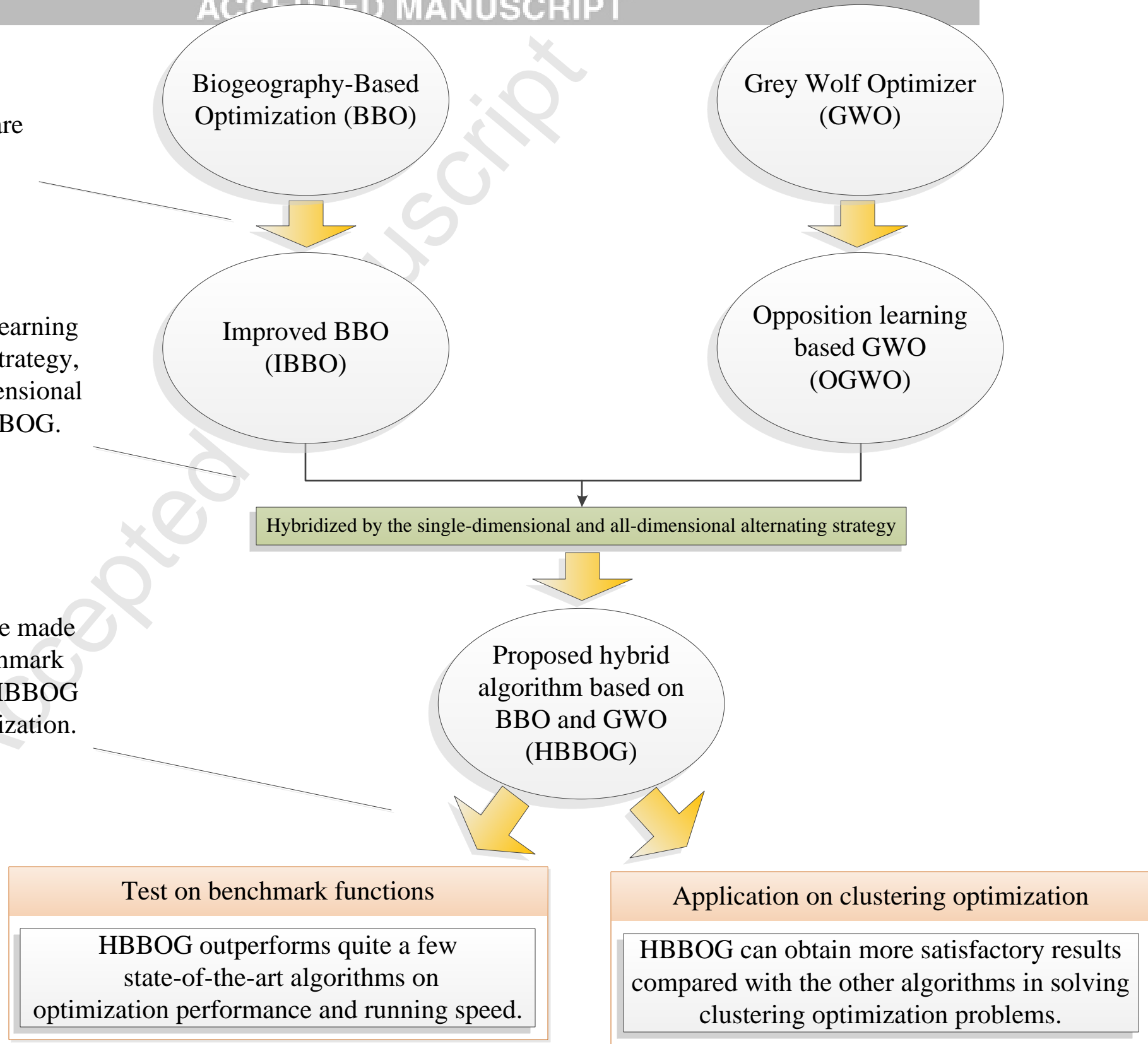
Please cite this article as: Xinming Zhang, Qiang Kang, Jinfeng Cheng, Xia Wang, A Novel Hybrid Algorithm Based on Biogeography-Based Optimization and Grey Wolf Optimizer, *Applied Soft Computing Journal* (2018), <https://doi.org/10.1016/j.asoc.2018.02.049>

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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.



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