

Accepted Manuscript

A new quantum chaotic cuckoo search algorithm for data clustering

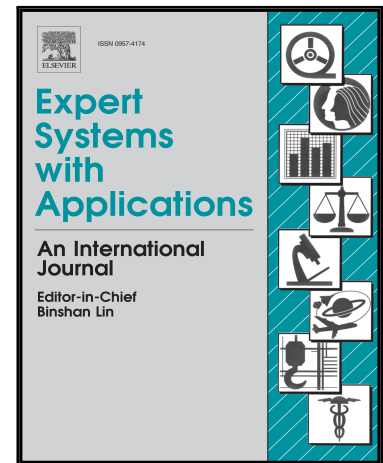
Saida Ishak Boushaki , Nadjat Kamel , Omar Bendjeghaba

PII: S0957-4174(17)30821-7
DOI: [10.1016/j.eswa.2017.12.001](https://doi.org/10.1016/j.eswa.2017.12.001)
Reference: ESWA 11702

To appear in: *Expert Systems With Applications*

Received date: 2 August 2017
Revised date: 14 November 2017
Accepted date: 4 December 2017

Please cite this article as: Saida Ishak Boushaki , Nadjat Kamel , Omar Bendjeghaba , A new quantum chaotic cuckoo search algorithm for data clustering, *Expert Systems With Applications* (2017), doi: [10.1016/j.eswa.2017.12.001](https://doi.org/10.1016/j.eswa.2017.12.001)



This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Quantum chaotic cuckoo search algorithm is proposed for the data clustering problem.
- The performance of the proposed approach was assessed on six well known datasets.
- The Chaos maps and Boundary handling strategy enhance the cuckoo search algorithm.
- The nonhomogeneous quantum update improves the global search ability.
- The significant superiority of the proposed algorithm over eight recent algorithms.

Download English Version:

<https://daneshyari.com/en/article/6855261>

Download Persian Version:

<https://daneshyari.com/article/6855261>

[Daneshyari.com](https://daneshyari.com)