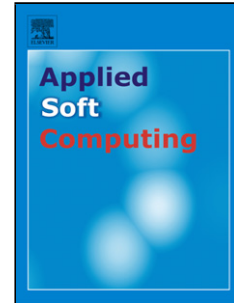


Accepted Manuscript

Title: Modified cuckoo search algorithm for the optimal placement of actuators problem

Authors: Bo Yang, Jun Miao, Zichen Fan, Jun Long, Xuhui Liu



PII: S1568-4946(18)30120-0
DOI: <https://doi.org/10.1016/j.asoc.2018.03.004>
Reference: ASOC 4753

To appear in: *Applied Soft Computing*

Received date: 12-8-2017
Revised date: 26-2-2018
Accepted date: 2-3-2018

Please cite this article as: Bo Yang, Jun Miao, Zichen Fan, Jun Long, Xuhui Liu, Modified cuckoo search algorithm for the optimal placement of actuators problem, Applied Soft Computing Journal <https://doi.org/10.1016/j.asoc.2018.03.004>

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.

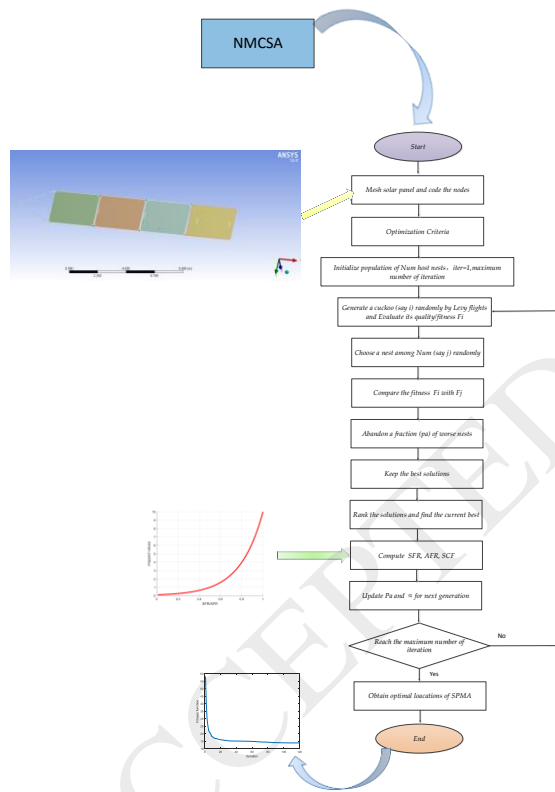
Modified cuckoo search algorithm for the optimal placement of actuators problem

Bo Yang^a, Jun Miao^{a,*}, Zichen Fan^a, Jun Long^b, Xuhui Liu^b

^aSchool of Astronautics, Beihang University, Beijing, 100191, P.R. China

^bBeijing Institute of Control Engineering, Beijing, 100080, P.R. China

Graphical abstract



Highlights

- We presented a novel modified cuckoo search algorithm (NMCSA) for optimal placement of actuators problems.
- The proposed NMCSA employs a novel adaptive strategy to balance exploration and exploitation, which lead to achieve a more rapid and efficient algorithm.
- Computational experiments are conducted to validate the proposed algorithm.
- Actuators located in positions determined by proposed algorithm can effectively reduce control spillover.
- The NMCSA compared with state-of-the-art algorithms and their variants.
- Computational results show that the NMCSA outperforms with many other metaheuristics in the literature.

Download English Version:

<https://daneshyari.com/en/article/6903745>

Download Persian Version:

<https://daneshyari.com/article/6903745>

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