

Review Form 3

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|--------------------------|---|
| Journal Name: | Journal of Advances in Mathematics and Computer Science |
| Manuscript Number: | Ms_JAMCS_125542 |
| Title of the Manuscript: | A novel improved butterfly optimization algorithm based on the adaptive inertia weight and the dynamic switching probability |
| Type of the Article | |

Review Form 3

PART 1: Review Comments

| Compulsory REVISION comments | Reviewer's comment | Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
|---|---|---|
| <p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p> | <p>In this improved BOA (IBOA) by balancing local search and global search. In the IBOA, the adaptive inertia weight and the dynamic switching probability are introduced. IBOA is used to determine the hyper-parameters of support vector machine (SVM), which is called the IBOA-SVM model</p> | |
| <p>Is the title of the article suitable? (If not please suggest an alternative title)</p> | <p>Yes the title of the article suitable</p> | |
| <p>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</p> | <ol style="list-style-type: none"> 1. The article should contain the numerical study with respect to the values. The article comprehensive analysis values should be included. 2. Mention the percentage of accuracy in abstract and conclusion. | |
| <p>Are subsections and structure of the manuscript appropriate?</p> | <p>Yes it is correct</p> | |
| <p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p> | <ol style="list-style-type: none"> 1. The IBOA-SVM prediction model, and perform prediction experiments in two real datasets to evaluate the performance of the IBOA-SVM. 2. Compared with SVM, PSO-SVM, GWO-SVM, and BOA-SVM, the IBOA-SVM model has higher prediction accuracy. | |
| <p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> | <p>It is sufficient.</p> | |
| <p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p> | <ol style="list-style-type: none"> 1. Clarify the innovative aspects of the proposed approach compared to the current state-of-the-art. 2. Highlight how this combination addresses gaps in the literature or solves a unique problem. 3. Authors have to split the Section 1. Introduction and Section 2. Related works. Section 1. 4. Introduction should include the concrete problems in the field and the goal of the paper. | |
| <p>Optional/General comments</p> | | |

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PART 2:

| | Reviewer's comment | Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
|---|--|---|
| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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|----------------------------------|--------------------|
| Name: | Suprith P G |
| Department, University & Country | GMU, India |