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Correction

Correction: Modified artificial rabbits optimization combined with bottlenose dolphin optimizer in feature selection of network intrusion detection

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A correction on

Modified artificial rabbits optimization combined with bottlenose dolphin optimizer in feature selection of network intrusion detection by Fukui Li, Hui Xu and Feng Qiu. Electronic Research Archive, 2024, 32(3): 1770–1800. DOI: 10.3934/era.2024081

The authors would like to make the following corrections to the published paper [1]. The corrections are as follows:

1) On page 1974, the classification results data of InSDN in Table 10 was changed. There was a duplication error in the classification results of InSDN in the paper (Table 10), which is the same as the classification results of UNSW-NB 15 (Table 9);

2) On page 1974, we changed the language "The LBARO is ahead of the other algorithms in all five metrics, excluding the slightly lower accuracy data values. Additionally, there are varying degrees of effectiveness enhancement, including up to 0.6% improvement in accuracy, 2.19% enhancement in recall, and up to 0.85% enhancement in the F1-score. Finally, the value of the selected features is reduced to 12, which effectively reduces a significant number of redundant features, decreases intrusion detection workload, and increases intrusion detection efficiency. It can be inferred that the LBARO exhibits the best overall performance for feature selection on the InSDN dataset based on the final overall ranking, which remains optimal." in the description to "From the presented data, it is

evident that LBARO performs well overall. Although it ranks second in the number of selected features, there is no significant difference compared to AO, and both achieve better results. Furthermore, the score data for the other four performance indicators surpasses that of other algorithms, all showing improvements in their metrics. The comprehensive evaluation reveals that LBARO enhances detection accuracy by effectively reducing redundant features and improving detection rates. Therefore, it can be concluded that LBARO's feature selection effect on the InSDN dataset is relatively superior and leads to certain performance improvements";

3) On page 1972, we changed the language "Table 9 shows the data results of the experiments on the UNSW-NB 15 dataset 10,000 dataset." in the description to "Table 9 presents the results of the experiments on the 10,000-item UNSW-NB 15 dataset".

The changes have no material impact on the conclusion of this article. The original manuscript will be updated [1]. We apologize for any inconvenience caused to our readers by this change.

Conflict of interest

The authors declare no conflict of interest.

References

 F. K. Li, H. Xu, F. Qiu, Modified artificial rabbits optimization combined with bottlenose dolphin optimizer in feature selection of network intrusion detection, *Electron. Res. Arch.*, **32** (2024), 1770–1800. https://doi.org/10.3934/era.2024081



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