The co-authors and I would like to thank you for the time and effort spend in reviewing the manuscript. The following is an introduction to the data and documents we provide.

1. In the data we provide, all zeros are replaced by 0.001. Because when using the ratio method to generate features, if the denominator is zero, there will be abnormal values (infinite numbers). Therefore, we use the minimum value of 0.001 instead of zero in the data of the manuscript。
2. File DGA\_ Data.xlsx is the data in our manuscript. In the hope that experts can understand our manuscript, we provide a simple verification program in two languages. The folder randomforest Python is a simple verification program written in Python. Main.py is the main program. Randomforest MATLAB is a simple verification program written by us using MATLAB software, and main. M is the main program. The content of the two programs is the same, but the programming language is different. Using our validation program can help experts understand our manuscripts faster and prove that our innovations are effective。
3. We provide DGA in our data file\_ The feature we solved is added to data.xlsx. Experts can click the number in Excel to observe the formula of the feature. Due to time constraints, we are sorry that we cannot write all the formulas of the first 60 features in the paper into excel. However, we can still achieve good results by using the features we provide, which can prove our innovation。
4. We have randomly divided the data we provided in advance into six training sets and test sets according to the ratio of 8:2. Dataset files are: DGA\_ testing\_ data.csv，DGA\_ training\_ data.csv，DGA\_ training\_ labels.csv，DGA\_ testing\_ labels.csv。
5. File comparison\_ Fig. TIF is a result diagram using the program provided above. Other documents are auxiliary documents for program operation and have no practical significance。

Thank you very much for reading