COVID-19 Paper corrections

# Reviewer 1

## 1. COMMENT

English is very bad

## RESPONSE

(Spell Check Grammar Check )

## 2. COMMENT

In each equations relation typos exist missing of dots etc.

## RESPONSE

Corrected.

## 3. COMMENT

Why this method is so important?

## RESPONSE

## 4. COMMENT

Replace Covid-19  by COVID-19

## RESPONSE

Corrected.

## 5. COMMENT

Improve conclusion and presentation.

## RESPONSE

## 6. COMMENT

Recent large number of relevant work on covid like:

* Taylor Series Expansion Method To Compute Approximate Solution For Nonlinear Dynamical System
* On The Iterative Methods For Solving Fractional Initial Value Problems: New Perspective

## RESPONSE

The following paragraph and the appropriate references has added in the Introduction section:

“*Furthermore, a series of recent works have been proposed to model the dynamics of COVID-19 virus using fractional derivatives [*[*covid\_fractional1*](#LyXCite-covid_fractional1)*,* [*covid\_fractional2*](#LyXCite-covid_fractional2)*,* [*covid\_fractional3*](#LyXCite-covid_fractional3)*] or the work of Huzaifa et al [*[*ebola\_fractional*](#LyXCite-ebola_fractional)*], that was used for another virus, the Ebola virus.*”

# Reviewer 2

## 1. COMMENT

In order to improve the fluency of the paper, the author can add a flowchart to the method description section to explain the relationship between the various algorithm modules.

## RESPONSE

## 2. COMMENT

How to determine the experimental parameters in Table 2.

## RESPONSE

1) experiment with number of chromosomes (100, 200, 500) and fixed generations (200) (fc=2)

2) experiment with number of generations (50,100,200,400) and fixed chromosomes (fc=2)

## 3. COMMENT

In Table 3, the test results of the ADAM algorithm have a large gap with the actual results, and we think this may be because the experimental parameters set are not ideal.

## RESPONSE

## 4. COMMENT

In Table 3 and Table 4, it can be seen that the experimental algorithm is not good for Brazil's prediction effect. What's the reason for this?

## RESPONSE

## 5. COMMENT

The authors' discussion of the experimental results is not sufficient.

## RESPONSE