Review of: "A Mathematical Characterisation of COVID-19 in Mauritius"

Emile Franc Doungmo Goufo

The paper is about a simple and straight application of a very simple (high school) function, namely the logistic function, where the authors just used the real data to plot it and generate corresponding S-curves.

So mathematically speaking, there is no strong arguments in the paper making it outstanding with new and innovative results.

The paper is about statistical results so I suggest the authors to remove the word "Mathematical" in the title as this is misleading. You may replace it with "statistical".

The basic reproduction number eq (4) is given for Western European estimates, why do you use it for Mauritius? You said it is "Due to a lack of data for Mauritius" so did you generate the figures 1, 2, 3 , 4 and even 6 without Mauritius data, as no data is provided in the paper?

Do these results reliable?

However, the paper allow the comparison of the Covid 19 dysnamic in Mauritius with other countries only in a statistical view. You cannot conclude about better "immunity" response for Mauritius when you are using wrong data, as it is the case here.

Please amend the paper.