

Review of: "A connection between Gompertz diffusion model and Vasicek Interest Rate model"

Nur Idayu Ah Khaliludin¹

¹ Universiti Sains Islam Malaysia

Potential competing interests: No potential competing interests to declare.

Abstract: I understand that you want to conclude your findings in the last sentence. But the last sentence is incoherent with your other statements. Perhaps you could revise this.

1. Introduction:

1. The sentence " Gompertz [5] introduces.....expressed it as double exponential. I believe it isn't double exponential. Please check the equation and correct your statement.
2. Wrong citation of Francisco..[6]. The first name listed in your reference no [6] is R. Gutierrez-Jaimez.
3. Need to correct a few sentence structures.

2. The VIR model and the SGDP:

1. Please state the equation of the Ito formula.
2. Please define SDE.

3. The link between the VIR model and the SGDP:

1. Please check equation (3.2). Consider changing the alpha as it is confusing with equation (3.1).

4. Others:

1. Perhaps you could equate equations that you had proven so that readers could see the similarity or the connection between the two models. As an example, : $\alpha + \alpha/2$ in the first equation on page 4 is equal to the alpha in the SGDP model .
2. Few sentences need to be revised in terms of sentence structure. I suggest you proofread.
3. Several equations are not labelled.