

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

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Potential competing interests: No potential competing interests to declare.

A connection between the Gompertz diffusion model and the Vasicek Interest Rate model

The author establishes a new connection between the Gompertz diffusion model and the Vasicek Interest Rate model. The content idea is good and makes the work quite interesting. The paper provides good applications and information for the readers. I believe that it is a very good contribution and would recommend that it be published after major changes.

1. The abstract needs to be revised; the description of the research purpose and research results is insufficient, and the research problems, objectives, methods, and conclusions need to be clarified.
2. The introduction describes the research background, purpose, and significance less clearly and cannot clearly convey the core content of the research.
3. Please add nomenclature with proper units and abbreviations to the paper for better understanding of the readers.
4. The overall language of this manuscript must be improved further, especially the selection of words, commas, and full stops after each equation.
5. There are many formulas in the text, but the meaning of the letters in the formulas is not explained properly.
6. The description of the conclusions of the study is insufficient; the description of the conclusions of the study is too simple, and there is a lack of further research direction and future application of the conclusions.
7. Discuss the broader implications of the findings. How can the results be applied in practical scenarios or inform future research in this field?
- 8.