Review of: "Qualitative Analysis of a Time-Delay Transmission Model for COVID-19 Based on Susceptible Populations With Basic Medical History"

Changjin Xu[1]

1 Guizhou University of Finance and Economics

Potential competing interests: No potential competing interests to declare.

1. In keywords, please add: global stability. Lyapunov function.
2. In model (2), please give a suitable reason why the authors introduce delay into model (1).
3. Page 5, ``Easy to know system (3)" shall be ``It is easy to know that system (3)".
4. Pag 10, `substitute it in to obtain" shall be ``substitute it into"
5. Can you deal with the fractional order model (2). I suggest the authors consider the fractional-order version of modfel (1) in future direction. The following works shall be cited to display this research area. [1]Exploring the impact of delay on Hopf bifurcation of a type of BAM neural network models concerning three nonidentical delays, Neural Processing Letters (2023)

   [2] New insight into bifurcation of fractional-order 4D neural networks incorporating two different time delays, Communications in Nonlinear Science and Numerical Simulation 118(2023) 107043.

   [3]Bifurcation mechanism for fractional-order three-triangle multi-delayed neural networks, Neural Processing Letters (2022) https://doi.org/10.1007/s11063-022-11130-y

   [4] Novel extended mixed controller design for bifurcation control of fractional-order Myc/E2F/miR-17-92 network model concerning delay, Mathematical Methods in the Applied Sciences (2023) DOI: 10.1002/mma.9597

   [5]Mathematical study on bifurcation dynamics and control mechanism of tri-neuron BAM neural networks including delay, Mathematical Methods in the Applied Sciences (2023) DOI: 10.1002/mma.9347

   [6] Insight into Hopf bifurcation and control methods in fractional order BAM neural networks incorporating symmetric structure and delay, Cognitive Computation (2023)

   [7] Exploration on dynamics in a discrete predator-prey competitive model involving time delays and feedback controls, Journal of Biological Dynamics 17(1)(2023) 2220349.