

Review of: "A Novel Computational Approach for Solving Fully Implicit Singular Systems of Ordinary Differential Equations"

Sagar R. Khirsariya¹

¹ Marwadi University

Potential competing interests: No potential competing interests to declare.

In this manuscript, the author presented "A Novel Computational Approach for Solving Fully Implicit Singular Systems of Ordinary Differential Equations". The solutions obtained are based on DTM and Adomain polynomials. The results seem to be correct. Though the manuscript is well-written and well-structured, I recommend the publication after addressing the below comments:

1. The whole manuscript must be checked for grammar errors, typos, and punctuation.
2. The author has given many numerical examples to prove the significance of the presented method. Is it directly applicable to any application? If yes then add it.
3. I can see most of the examples having totally zero value at the initial condition. what about when it has some higher values? does this method work? please add one example with it.
4. In the Introduction section multiple citations are given for a single method and it is happening so many times. I think one or two recent references are more than enough. please remove unnecessary citations.
5. Did your proposed method work for the boundary value problem as well? Justify.
6. What about the convergence of this proposed method? Please add it.
7. There are many other recently developed numerical and semi-analytical methods. I would like to see the comparison table with your suggested method.
8. The abstract and conclusion sections look almost similar. The author should improve both sections.
9. Recently many developments have been found to solve ordinary and partial differential equations. Kindly go through the suggested articles to enrich the quality of the paper.

<http://dx.doi.org/10.1016/j.rico.2023.100267>, <https://doi.org/10.17512/jamcm.2023.1.02>,
<https://doi.org/10.1002/mma.9438>, <http://dx.doi.org/10.1007/s40435-023-01293-4>,
<http://dx.doi.org/10.1016/j.rico.2023.100283>, <https://doi.org/10.1515/jaa-2023-0043>

