

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

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Potential competing interests: No potential competing interests to declare.

In the current paper, a new computational technique for handling completely implicit singular nonlinear systems of ODEs. Existing methods find it difficult to solve these systems; nevertheless, the suggested approach is efficient and general, and it can be readily implemented with widely available software. The technique does not involve converting the implicit system into an explicit system because it is based on the differential transform method (DTM) and Adomian polynomials. The result of this submission is useful for the interested reader of the current journal. Also, the paper is well presented and contains material worthy of publication after considering the following points:

1. The main motivation of the article should be explained more.
2. On page 1, line 3 "One can find also" to "One can also find" and on page 2, first line "software packages such Maple" to "software packages such as Maple".
3. Why so many citations especially from "23-34", please reduce number of citations with the latest one.
4. What is the difference between " δ_k " and " δ " in Eq. (14) and double check Eq. (18).
5. Statements of Theorems 1 and 2 can be redefined in more concise form (i.e. make it short).
6. Its better the author discuss the graphical representations of solutions and add references for the exact solutions of Examples.
7. The author should explain why choose such implicit differential equation, i.e. Eqs (28)-(29) and (45)-(46).
8. Update the following references with the recent one
 - "B. Simeon, F. Grupp, C. Führer and P. Rentrop, "A nonlinear truck model and its treatment as a multibody system," J. Comp. and App. Math., vol. 50, pp. 523-532, 1994.
 - R. Rach, "A Convenient Computational Form for the Adomian Polynomials," Journal of Mathematical Analysis and Applications, vol. 102, pp. 415-419, 1984.
 - A. M. Wazwaz, "A New Algorithm for Calculating Adomian Polynomials for Nonlinear Operators," Applied Mathematics and Computation, vol. 111, pp. 53-69, 2000.
 - R. Rach, G. Adomian, "Transformation of Series," Appl. Math. Lett., vol. 4, no. 4, pp. 69-71, 1991.
10. Mostly, citations are not in proper format, i.e. pages number etc. are missing etc.
11. This referee would like authors up to date on the literature review by introducing the following works where they alternative approaches are proposed. "Traveling wave solutions for space-time fractional Cahn Hilliard equation and

space-time fractional symmetric regularized long-wave equation", "The new auxiliary method in the solution of the generalized Burgers-Huxley equation", "Application of Optimal Homotopy Asymptotic Method to Some Well-Known Linear and Nonlinear Two-Point Boundary Value Problems".