

## 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.

This manuscript suggests an algorithm based on the combination of differential transform method and Adomian polynomials to solve the fully implicit singular nonlinear systems of ODEs.

Some comments are given in below.

- 1. My main comment is about the non-singularity of matrices "M\_k" and "N\_k". If these matrices are singular, the proposed algorithm cannot be used.
- 2. Page 2, please add the references of equations 1, and 3.
- 3. Page 3, Equations 5, and 7 are not correct.
- 4. Page 7, in Equation 26, there is no equality symbol.
- 5. Page 8, Example 1, in Equations 28, and 29, the font of "x" should be changed. It is different from the others. Also, in the line after Equation 29, "(x\_1,x\_2)^T".
- 6. What is the exact solution of Example 1?
- 7. Page 10, Example 2, in Equations 45, and 46, the font of "x" should be changed. It is different from the others. Also, in the line after Equation 46, "(x\_1,x\_2)^T".
- 8. Page 11, Example 1, in Equations 61, and 62, the font of "x" should be changed. It is different from the others. Also, in the line after Equation 62, "(x\_1,x\_2)^T".
- 9. Page 13, Example 1, in Equations 79, and 80, the font of "x" should be changed. It is different from the others. Also, in the line after Equation 80, "(x\_1,x\_2)^T".