

Review of: "New adaptative numerical algorithm for solving partial integro-differential equations"

Ireneusz Winnicki¹

¹ Military University of Technology in Warsaw

Potential competing interests: No potential competing interests to declare.

In this paper Rebiha Zeghdanea proved two new theorems and described six numerical examples. I didn't find any methodological errors. The quality of presentation and scientific soundness are on high level.

I recommend the Author to discuss more recent paper on the parabolic partial integro-differential equation: Rostami, Yaser: An Effective Computational Approach Based on Hermite Wavelet Galerkin for Solving Parabolic Volterra Partial Integro Differential Equations and its Convergence Analysis, 2023, DOI:10.3846/mma.2023.15690. I suggest to cite this paper.

From the mathematical point of view this reviewed paper is prepared correctly. In my opinion it is very interesting and it is a great contribution to the development of the existence theory.

1.Does the introduction provide sufficient background - YES and include all relevant references? - YES

2.Did you detect inappropriate self-citations by authors? - NO

3.Is the research design appropriate? - YES

4.Is the method adequately described? - YES

5.Are the results clearly presented? - YES

6.Are the conclusions supported by the results? - YES

7.Originality / Novelty and Significance of Content and Scientific Soundness - HIGH