

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

Mohammad A. Alqudah¹

¹ German Jordanian University

Potential competing interests: No potential competing interests to declare.

In this paper, a numerical approach based on orthonormal Bernoulli polynomials is developed for solving parabolic partial integro-differential equations. Using this approach, the problem is transformed into a nonlinear algebraic system. Error estimates for the orthogonal systems are then given.

1. The abstract is short; expand it with more details.
2. Add the motivation of the paper and a literature review.
3. The paper must provide an explanation of the innovation of the topic.
4. The proposed method is intended to solve nonlinear problems, so provide more nonlinear examples.
5. Provide a more in-depth discussion of the resulting algebraic systems.
6. Include a detailed algorithm for the proposed method so that readers can reproduce the results.
7. Additional numerical results must be included. Clearly state the numerical method used to solve the linear algebraic system.
8. Must provide a comparison between different methods to support the research of this article.
9. Include recent references to strengthen the literature review and show awareness of recent developments in the field.
10. Highlight the results obtained in the Conclusions section.
11. Carefully proofread the entire manuscript for English and grammatical errors to improve readability.