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Journal Name:	<u>British Journal of Mathematics & Computer Science</u>
Manuscript Number:	Ms_BJMCS_29922
Title of the Manuscript:	A Comparative Study of Homotopy Decomposition method and Homotopy Perturbation Elzaki Transform method for Solving Nonlinear Fractional Heat -Like Equations
Type of the Article	Full research paper

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	This is a nicely written work. The authors presented the goals of this work and these goals were achieved. The output of this manuscript is very interesting and new. In this paper, the Homotopy Perturbation Elzaki Transform Method (HPETM) and Homotopy Decomposition Method (HDM) are used to solve nonlinear fractional Heat - Like equations. Both methods are very efficient techniques and quite capable, practically for solving different kinds of linear and nonlinear fractional differential equations .The results reveal that the (HDM) has an advantage over the (HPETM) which is that it solves the nonlinear problems using only the inverse operator which is basically the fractional integral. Additionally there is no need to use any other inverse transform to find the components of the series solutions as in the case of HPETM. As a consequence the calculations involved in HDM are very simple and easy execution. The solution procedure reveals that the scheme is simple and straightforward. Authors have checked all solution	



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	procedure and results; solution procedure is new, accurate and easy to understand for the people. This paper wants following revision as 1. Try to polish English of whole paper. 2. Author should include "FULL STOP" in last line of abstract. 3. Authors should write "During the past few decades" instead "During last decades" in fourth line of introduction. 4. Try to improve introduction part of paper. 5. Authors should rewrite section 2 as "Fundamental facts of Elzaki Transform" instead "Fundamental Facts of the Elzaki Transformation Method". 6. Authors should include , between $f(x,t)$ and α in equation (9). 7. Authors should write "0 and 4" instead "0and4" in equation (10). 8. Authors should write "Caputo fractional derivative" instead "Caputo fraction derivative" just after equation (10). 9. Title of paper is too long. Suitable title of paper is A Comparative Study for Solving Nonlinear Fractional Heat -Like Equations via Elzaki Transform	
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	10. Authors should write all references in journal and similar format. 11. Authors should write full information in reference in reference [4]. 12. Authors should write “of Modern” instead “ofModern” in reference [6]. 13. Authors should write name of journal, year of publication and volume number in similar way in each reference. 14. Authors should write “Saud University” instead “SaudUniversity” in reference [10]. 15. Authors should write name of authors in similar way in each reference. 16. Authors should include full information of reference [11]. 17. Authors should write correct name of second author “Adem Kilicman” instead “Adem Kihcman” in reference [14]. 18. Authors should include full information in reference [14]. 19. Authors should write name of journal “Communications in Fractional Calculus” instead “Communications in FractionalCalculus” in reference [17].	
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	20. Authors should include full information of publication in reference [18]. 21. Authors should add following papers in reference list for better presentation of paper i) S. Kumar, A. Kumar, I. K. Argyros, A new analysis for the Keller Segel model of fractional order, Numerical Algorithms, DOI: 10.1007/s11075-016-0202 z(2016). ii) S. Kumar, D. Kumar, J. Singh, Fractional modelling arising in unidirectional propagation of long waves in dispersive media, Advances in Nonlinear Analysis, DOI: 10.1515/anona-2013-0033, 2016. iii) J. J. Yao, S. Kumar, A. Kumar, A fractional model to describing the Brownian motion of particles and its analytical solution, Advances in Mechanical Engineering, 7(12), 1-11, (2015). iv) L. Wei, Y. He, A. Yildirim, S. Kumar, Numerical algorithm based on an implicit fully discrete local discontinuous Galerkin method for the time-fractional KdV-Burgers-Kuramoto equation, 93(1), 2013, 14-18. v) S. Kumar, D. Kumar, Fractional modelling for BBM-Burger equation by using new homotopy analysis	
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	transform method, Journal of the Association of Arab Universities for Basic and Applied Sciences, 16, October 2014, Pages 16–20.	
<u>Minor</u> REVISION comments	See below	
<u>Optional/General</u> comments	See below	

Reviewer Details:

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