

SDI Review Form 1.6

Journal Name:	Asian Research Journal of Mathematics
Manuscript Number:	Ms_ARJOM_47528
Title of the Manuscript:	An Accurate Implicit Quarter Step First Derivative Block Hybrid Method for Solving Ordinary Differential Equations
Type of the Article	

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.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

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)
Compulsory REVISION comments		
Minor REVISION comments	<p style="text-align: center;">Reviewer #1:</p> <p>Reviewer #1: The author should revise the article by taking into consideration the following comments.</p> <p>1-Author should improve the English of this paper.</p> <p>2- Author should explain more about the novelty of this work in the introduction, indeed, several studies have addressed the same problem.</p> <p>3- The author must clearly indicate what is the difference between the preset work history and other research work. I suspected it said on the originality of the paper, I noticed that the whole manuscript is not well organized, this work is not sufficiently argued.</p> <p>4-The goals, the general motivations, and the highlights of the problem and results, as well as the use of this approach are not well explained</p> <p>5- the author should add this paper in this paper</p> <p>[1] Mohamed A. Ramadan, Mohamed R. Ali, " New algorithm for solving system of Fredholm integral equations," <i>Electronic Journal of Mathematical Analysis and Applications (EJMAA)</i>, (2017).</p> <p>[2] Mohamed A. Ramadan, Adel R. Hadhoud, Mohamed R. Ali, " Numerical solutions of singular initial value problems in the second-order ordinary differential equations using Hybrid Orthonormal Bernstein and Block-Pulse Functions," <i>Journal of the Egyptian Mathematical Society</i>, vol.24, no. 4, pp.45-60 (2018).</p> <p>[3] Mohamed A. Ramadan, Mohamed R. Ali, " Approximate solutions for fuzzy Volterra integro-differential equations using HOB method," <i>Journal of Statistics Application and Probability</i>, vol.4, no. 14, pp.80-94 (2017).</p> <p>[4] Mohamed A. Ramadan, Mohamed R. Ali, " Hybrid Orthonormal Bernstein and Block-Pulse functions for solving nonlinear Volterra integral equations," Scholars Journal of Physics, Mathematics and Statistics, vol.4, no. 4, pp.87-95 (2017).</p>	

SDI Review Form 1.6

	<p>[5] Mohamed R. Ali,“ Application of the method of lines for solving the KdV-Burger equation.” <i>Journal of abstract and computational mathematics</i>, vol.2, no. 2, pp.39-51 (2017).</p> <p>[6] Mohamed A. Ramadan, Mohamed R. Ali,“ Application of Bernoulli wavelet method for numerical solution of fuzzy linear Volterra-Fredholm integral equations, <i>Communication in Mathematical Modeling and Applications</i> , vol.2, no. 3, pp.40-49 (2017)._</p> <p>[7] Mohamed R. Ali,“ Approximate solutions for fuzzy Volterra integro-differential equations.”_ <i>Journal of abstract and computational mathematics</i>, vol.3, no. 2, pp.11-22 (2018).</p> <p>[8] Mohamed M. Mousa, Mohamed R. Ali, “ The Method of Lines and Adomian Decomposition for Obtaining Solitary Wave Solutions of the KdV Equation,” , <i>Applied Physics Research</i>, vol.5, no. 3, pp.43-57 (2013).</p> <p>[9] Mohamed R. Ali, Adel R. Hadhood, “Hybrid Orthonormal Bernstein and Block-Pulse functions wavelet scheme for solving the 2D Bratu problem,” <i>Results in Physics</i>, vol.13, pp.12-21 (2019).</p> <p>[10] Mohamed A. Ramadan, Mohamed R. Ali , A modified gradient-based algorithm for solving extended Sylvester-conjugate matrix equations, <i>Asian Journal of Control</i> ,vol.20, no. 1, pp.228-235 (2018).</p> <p>[15] Mohamed R. Ali, Darboux transformation for soliton solutions of the modified Kadomtsev-Petviashvili-II equation.</p>	
<u>Optional/General</u> comments		

PART 2:

	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)
Are there ethical issues in this manuscript?	<i>(If yes. Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Mohamed Reda Ali
Department, University & Country	Benha University, Egypt.