

Review Form 1.7

Journal Name:	Journal of Advances in Mathematics and Computer Science
Manuscript Number:	Ms_JAMCS_104020
Title of the Manuscript:	Gauss-Mamadu-Njoseh Quadrature Formula for Numerical Integral Interpolation
Type of the Article	Original Research 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:

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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)
<p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> Is the manuscript important for scientific community? (Please write few sentences on this manuscript) Is the title of the article suitable? (If not please suggest an alternative title) Is the abstract of the article comprehensive? Are subsections and structure of the manuscript appropriate? Do you think the manuscript is scientifically correct? Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<ol style="list-style-type: none"> The manuscript is important for the scientific community. The title of the article is suitable. The abstract of the article is comprehensive only must be improved. Yes, the subsections and structure of the manuscript are appropriate. I think the manuscript is scientifically correct. Yes, will have suggestions for additional references. 	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> Is language/English quality of the article suitable for scholarly communications? 	<p>The language/English quality of the article is suitable for scholarly communications only must improve.</p>	
<p>Optional/General comments</p>	<p>As a researcher working on the same field, I am impressed by the technique introduced in the paper, because it sheds new light on the earlier results of several authors and obviously can be successfully used in practice. From this point of view, the subject of the paper fits well with the scope of the Journal of Advances in Mathematics and Computer Science.</p> <p>The paper is ended with numerical simulations that corroborate the theoretical results.</p> <p>This manuscript contains new ideas and good results that help other researchers.</p> <p>Journal of Advances in Mathematics and Computer Science.</p> <p>Therefore, I recommend publishing this work after taking these points into account.</p> <ol style="list-style-type: none"> The English writing of the paper is required to be improved. Please check the manuscript carefully for typos and grammatical errors. I found some typos and grammatical errors within this manuscript, which have been excluded from my review. In addition, the English structure of the article, including punctuation, semicolon, and other structures, must be carefully reviewed. In the introduction, the authors did not provide a strong motivation for the paper and the obtained results. In addition, they should discuss the main contributions of their work in detail after the motivation part. Then they should summarize the main structure of their paper in brief at the end of the introduction. The literature review about the problem under study is not adequate. I suggest the authors keep up-to-date the introductory part by the recent relevant developments and publications. For this purpose, the authors can add the following references to enrich the introductory section: 	

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	<p>*Computational Methods for Solving Higher-Order (1+ 1) Dimensional Mixed-Difference Integro-Differential Equations with Variable Coefficients, Mathematics 11 (9), 2045, 2023.</p> <p>*Approximate solution of Cauchy integral equations by using Lucas polynomials, Computational and Applied Mathematics 41 (8), 403, 2022.</p> <p>*A new solution of SIR model by using the differential fractional transformation method, International Journal of Engineering, 4 (11), 8269, 2014.</p> <p>*Stability, existence, and uniqueness for solving fractional glioblastoma multiforme using a Caputo–Fabrizio derivative, Mathematical Methods in the Applied Sciences.2023 ,</p> <p>*Use of optimal control in studying the dynamical behaviors of fractional financial awareness models, Soft Computing, vol. 26, pp. 3401–3409, 2022.</p> <p>*Computational method and dissipative feature for solving a network SIRS model, Bulletin of Faculty of Science, Zagazig University 2022 (4), 99-106, 2023.</p> <p>*A numerical method for solving the nonlinear equations of Emden-Fowler models, Journal of Ocean Engineering and Science, 2022. doi.org/10.1016/j.joes.2022.04.019.</p> <p>*A Computational Technique for Solving Three-Dimensional Mixed Volterra–Fredholm Integral Equations, Fractal and Fractional 7 (2), 196, 2023.</p> <p>*On approximate solutions for fractional Riccati differential equation, International Journal of Engineering, 4(9), 8269-6283, 2014.</p> <p>*Approximate analytical solution to a time-fractional Fokker–Planck equation, Bothalia, 45(4), 57-69, 2015.</p> <p>*Computational methods for fractional differential equations generated by optimization problem, Journal of Fractional Calculus and Applications, 3, 1-12, 2012.</p> <p>*Numerical solution of fractional integro-differential equations by least squares method and shifted Chebyshev polynomials of the third kind method, Theoretical Mathematics & Applications 6 (4), 87-101, 2016.</p> <p>*Sumudu decomposition method for Solving fractional-order Logistic differential equation, Journal of Advances in Mathematics, 10(7), 3642-3649, 2015.</p> <p>*An integral collocation approach based on Legendre polynomials for solving Riccati, Logistic and delay differential equations, Applied Mathematics, 5(15), Article ID:48886,10 pages 2014.</p> <p>*Sumudu decomposition method for solving fractional Riccati equation, JACM 3, 42-50, 2018.</p> <p>4-Future recommendations should be added to assist other researchers to extend the presented research analysis.</p> <p>Sincerely Yours</p> <p>Prof. Dr. Amr Mahdy</p>	
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PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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