



SDI Review Form 1.6

Journal Name:	Archives of Current Research International
Manuscript Number:	Ms_ACRI_41227
Title of the Manuscript:	Investigation of Selected Versions of Fourth Order Runge-Kutta Algorithms as Simulation Tools for Harmonically Excited Duffing Oscillator
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>)



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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)
Compulsory REVISION comments	There are many methods for obtain explicit solutions for differential equations as (Darboux transformation, Lie symmetry), numerical solutions (method of lines, basis functions) that the authors don't show it, could you please add some references to introduction? 1. R. Sadat, A. A. Halim, Explicit solutions of a generalized Hirota-Satsuma equation using Darboux transformation. International Journal of Modern Mathematical Sciences, 14(2016) 325-334. 2. R. Sadat, A. A. Halim, New Soliton Solutions for the Kadomtsev-Petviashvili equation Using Darboux Transformation. International Journal of Modern Mathematical Sciences, 15(2017) 112-122. 3. Sadat, R.; Kassem, M. Explicit Solutions for the $(2 + 1)$-Dimensional Jaulent-Miodek Equation Using the Integrating Factors Method in an Unbounded Domain. <i>Math. Comput. Appl.</i> 2018, 23. 4. Mohamed A. Ramadan, Mohamed R. Ali, "Solution of integral and Integro-Differential equations system using Hybrid orthonormal Bernstein and block-pulse functions," Journal of abstract and computational mathematics, Vol.2, No. 1, pp.35-48 (2017). 5. Mohamed A. Ramadan, Mohamed R. Ali, "An efficient hybrid method for solving fredholm integral equations using triangular functions", New Trends in Mathematical Sciences, Vol.5, No. 1, pp. 213-224 (2017). 6.	Thank you for the suggestion. However, in line 36, it is stated that several methods exist for the solution of differential equations, and I deliberately did not mention any of them, as I believe they are not within the scope of the study. Because, the study was focused on just one family of numerical methods, that is the Family of Runge Kutta methods, and the introduction was targeted at this (lines 36 – 67).
Minor REVISION comments		
Optional/General comments		Thank you for your review