



## SDI Review Form 1.6

Journal Name:	<a href="#">Journal of Advances in Mathematics and Computer Science</a>
Manuscript Number:	Ms_JAMCS_43376
Title of the Manuscript:	Modeling Nonlinear Partial Differential Equations and Construction of Solitary Waves Solutions in an Inductive Electrical Line
Type of the Article	Review 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. 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)
<b>Compulsory</b> REVISION comments	<p>I found the topic is interesting and the proof is robust. I suggest that the paper can be accepted after a minor revision according to the following guidelines:</p> <ol style="list-style-type: none"> <li>(1) Rewrite the abstract, since it is one sentence.</li> <li>(2) What are the advantages of this method over other existing method ?</li> <li>(3) Is this method can be used to solve nonlinear fractional differential equations?</li> <li>(4) The authors should give recent development in analytical methods and add the following reference: <ol style="list-style-type: none"> <li>(a) Solitary Waves for the Modified Korteweg-De Vries Equation in Deterministic Case and Random Case. J Phys Math. 8(1) (2017), [DOI: 10.4172/2090-0902.1000214].</li> <li>(b) Solitary waves for the nonlinear Schrödinger problem with the probability distribution function in stochastic input case. Eur. Phys. J. Plus (2017).</li> <li>(c) A note on Riccati-Bernoulli Sub-ODE method combined with complex transform method applied to fractional differential equations, Nonlinear Engineering Modeling and Application (2018), [DOI: <a href="https://doi.org/10.1515/nleng-2017-0145">https://doi.org/10.1515/nleng-2017-0145</a>].</li> <li>(d) An efficient numerical algorithm for the fractional Drinfeld-Sokolov-Wilson equation, Applied Mathematics and Computation 335 (2018) 12-24.</li> </ol> </li> <li>(5) Check the manuscript carefully for typos and grammatical errors.</li> </ol> <p>I recommend it for publication after revisions.</p>	<p>The advantages of this method over other existing methods are given as follows: The method is discrete and effective based on the identification of basic hyperbolic functions, it facilitate the construction of nonlinear partial differential equations where the nonlinear terms and dispersive terms coexist under the shape of a linear combination of the hyperbolic functions and therefore it brings together other methods, its permits the choice of the shape of the exact solution depending on the symmetry of the equation to be solve as well as from the nonlinearity degree.</p> <p>The methods cannot be applied to solve nonlinear fractional differential equations but it permits to obtain exact solution under linear combinations of hyperbolic functions of real powers.</p>
<b>Minor</b> REVISION comments		
<b>Optional/General</b> comments		