

Review Form 1.6

Journal Name:	Journal of Advances in Mathematics and Computer Science
Manuscript Number:	Ms_JAMCS_76892
Title of the Manuscript:	GLOBAL WEAK SOLUTIONS FOR THE WEAKLY DISSIPATIVE DULLIN-GOTTWALD-HOLM EQUATION
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)
Compulsory REVISION comments	The purpose of this work is to investigate the existence and uniqueness of global weak solutions for the weakly dissipative Dullin-Gottwald-Holm equation describing unidirectional propagation of surface waves in shallow water regime. The problem possesses global (in time) strong solution by imposing certain sign conditions on the initial values and assumptions of coefficients in the equation. At last, the existence and uniqueness of global weak solutions to the Cauchy problem are demonstrated. The paper is well organized and written. The PDE analysis is good. This problem is interesting and generally well-explained. The approach combines technical considerations are nice. The results are correct. It is a nice complement to the existing results in this active research field. In summary, the referee would enthusiastically recommend it for publication in *****.	
Minor REVISION comments	<ol style="list-style-type: none"> 1. On page 2, in line 9, the words "blowups" should be changed into "blow-up". 2. On page 14, in line 7, please remove the dot before the words "such that". 3. On page 14, in last line, please rewrite the sentence "As one can see comaring with (3.2)". 4. On page 15, in line 9, please rewrite the sentence "Using.....". 	
Optional/General comments	<ol style="list-style-type: none"> 1. On page 17, the references are classical. The recent reference in [24](2016). I suggest that the author add 5 references in this direction. For example, <ul style="list-style-type: none"> [1] Fan Lili, Gao Hongjun, Wang Junfang, Yan Wei, The Cauchy problem for fractional Camassa-Holm equation in Besov space. Nonlinear Anal. Real World Appl. 61 (2021) 103348. [2] Cai Hong, Chen Geng, Mei Hongwei, Uniqueness of dissipative solution for Camassa-Holm equation with peakon-antipeakon initial data. Appl. Math. Lett. 120 (2021) 107268. 	

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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>	

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